April 21, 2023

SENT VIA ELECTRONIC MAIL

Mr. Austin Pierce
Alabama Department of Environmental Management
Engineering Services Section
Industrial Hazardous Waste Branch
Land Division
1400 Coliseum Boulevard
Montgomery, Alabama 36130-1463

RE: 2022 Annual Groundwater Detection Monitoring and
Corrective Action Effectiveness Report
Solutia Inc., Anniston, Alabama
EPA RCRA ID #ALD004019048; EPA CERCLA ID #ALD000400123
Docket No. 1:02-cv-0749-KOB

Dear Mr. Pierce:

Please find attached an electronic copy of the above-referenced report. This report is submitted in compliance with the requirements of condition II.B.6 of the Facility's RCRA Post-Closure Permit and the Interim Record of Decision for Operable Unit 3 of the Anniston PCB Site. If you should have any questions or need additional information, please call me at (256) 231-8404.

Sincerely,

E. Gayle Macolly
Principal Remediation Manager, Major Projects
Solutia Inc.

Attachments: 2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

cc: Ms. Pam Scully, USEPA Region IV
Mr. Thomas Dahl, Dahl Environmental Associates

2022 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

RCRA Post-Closure Permit ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB



Issued: 21 April 2023

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Anniston, Alabama

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ABBREVIATIONS

ADEM	Alabama Department of Environmental Management
AHWMMA	Alabama Hazardous Waste Management and Minimization Act
AWWSB	Anniston Water Works & Sewer Board
CD	Consent Decree
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
COC	Constituent of Concern
COV	Coefficient of Variation
CTS	Carbon Treatment System
GAC	Granular Activated Carbon
GSI	GSI Environmental Inc.
IROD	Interim Record of Decision
IW	Interceptor Well
L/min	liters per minute
MNA	Monitored Natural Attenuation
OU	Operable Unit
OU-3	Operable Unit 3
OW	Observation Well
P/S	Pharmacia LLC and Solutia Inc.
PCB	Polychlorinated Biphenyl
PNP	Para-Nitrophenol (also 4-Nitrophenol)
POTW	Publicly Owned Treatment Works
RA	Remedial Action
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
S	Mann-Kendall Statistic
SID	State Indirect Discharge
Site	Anniston PCB Site
Solutia	Solutia Inc.
SOW	Statement of Work
SWMU	Solid Waste Management Unit
µg/L	micrograms per liter
USEPA	United States Environmental Protection Agency

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1.0 EXECUTIVE SUMMARY

1.1 Basis for Annual Report

This report has been prepared to document the results of groundwater monitoring and corrective action during 2022 at the Solutia Inc. (Solutia) facility in Anniston, Alabama (see Figure 1). Groundwater monitoring and corrective actions are being conducted at Operable Unit 3 (OU-3) in accordance with the: i) RCRA Post-Closure Permit No. ALD 004 019 048 issued by the Alabama Department of Environmental Management (ADEM) on 19 July 2019; and ii) Consent Decree (CD) issued by the US Environmental Protection Agency (USEPA) Region 4 on 17 April 2013 and the associated Interim Record of Decision (IROD) and Remedial Action (RA) Work Plan required pursuant to CERCLA. This report describes the requirements for groundwater monitoring and corrective action efforts and documents the progress achieved regarding these activities during the calendar year 2022.

1.2 Summary of Findings

Groundwater monitoring conducted during 2022 has demonstrated that the RCRA groundwater detection monitoring, RCRA groundwater corrective action program, and the CERCLA remedial action are being implemented in accordance with applicable requirements as summarized below. The monitoring well network and corrective action systems are depicted on Figures 2a/2b and 3, respectively.

- ***RCRA Groundwater Detection Monitoring:*** The 2022 semi-annual groundwater sampling and testing at WMA I (South Landfill Cells 4E and 5E) indicated the presence of a Constituent of Concern (COC) at a concentration exceeding the applicable RCRA concentration limit in groundwater detection monitoring program Point of Compliance (POC) well MW-13A. As detailed below in Section 4.2.1, re-sampling and testing activities were completed per the RCRA Permit Application and the results demonstrated that a confirmed release has not occurred. No further action is necessary at this time pursuant to Section 2.3.2 of Part B, Section 6 of the RCRA Permit Application. Semi-annual sampling and testing will resume with the next routine monitoring event scheduled for April 2023.
- ***RCRA Groundwater Corrective Action:*** At WMA II (New Limestone Bed) and SWMU 1 (South Landfill), semi-annual groundwater sampling and testing have demonstrated that operation of groundwater recovery systems is successfully intercepting affected groundwater. Statistical trend analysis of groundwater monitoring data shows that concentrations of COCs are generally stable or decreasing, thereby indicating the effectiveness of the groundwater recovery efforts.
- ***CERCLA Remedial Action (RA):*** Groundwater pump-and-treat systems are currently recovering and treating affected groundwater at Corrective Action Areas near monitoring wells OW-21A and OW-10 (see Figure 4). Groundwater monitoring, which is conducted annually in the vicinity of these wells and at other select locations throughout OU-3, demonstrates that COC concentrations are generally consistent with the prior four years of CERCLA RA

monitoring. Concentration trends indicate primarily stable to decreasing conditions for COCs at the CERCLA RA monitoring wells except for a probably increasing trend at T-04 and an increasing trend at T-09 for Total PCBs. T-04 is located upgradient and within the projected capture zone of the OW-21A Corrective Action System. PCB detections at T-09 appear to be associated with elevated turbidity, and not a result of downgradient migration of COCs from the OW-21A Corrective Action Area as detailed below in section 5.4.

1.3 Report Organization

This report is organized as follows: the facility background is provided in section 2.0, an overview of the groundwater monitoring program is discussed in section 3.0, an evaluation of the groundwater monitoring results is presented in section 4.0, an evaluation of corrective actions is included in section 5.0, and cited references are included in section 6.0. Tables 1 through 7 summarize technical data associated with the monitoring program, and Figures 1 through 17 provide illustrative summaries of the groundwater monitoring results. Supporting information is included in Appendices A through H.

2.0 FACILITY BACKGROUND

2.1 General Facility Description

OU-3 extends over an approximate 155-acre area located about one mile west of downtown Anniston, Alabama (see Figure 1). The manufacturing area comprises the northern portion of the OU-3 area and encompasses approximately 68 acres. The manufacturing portion of OU-3 is bounded to the north by the Norfolk Southern railroad (formerly the Georgia Pacific railway), to the east by Clydesdale Avenue, to the west by the closed West End Landfill and an Alabama Power Company substation and to the south by Highway 202. OU-3 also includes the South Landfill located on the south side of Highway 202 and the northside properties area located north of the manufacturing area.

Solutia currently manufactures polyphenyl compounds and phosphate ester-based nonflammable hydraulic fluids. Solutia has and does operate under the authorization of applicable environmental permits. Environmental activities at the facility have included a combination of investigative and remedial efforts conducted pursuant to these current and previous permits.

2.2 Closed Units and Corrective Action Areas

This annual groundwater monitoring report addresses closed waste management units and corrective action areas identified in the RCRA permit and the IROD.

The facility previously operated the following hazardous waste management and/or disposal areas (see Figure 3):

- WMA I: Closed Cells 4E and 5E of the South Landfill;
- WMA II: New Limestone Bed; and
- SWMU 1: Closed Cells 1W, 2W, 2WA, 3W, 4W, 1E, 2E, and 3E of the South Landfill.

Under the provisions of the IROD, a Performance Verification Sampling Program (PSVP) is being conducted to support the Remedial Action for OU-3 which includes the following Corrective Action Areas (see Figure 3):

- OW-21A Corrective Action Area
- OW-10 Corrective Action Area

2.2.1 WMA I: Closed Cells 4E and 5E (northeastern portion of South Landfill)

Closed Cells 4E and 5E of the South Landfill have been designated as WMA I. Cells 4E and 5E represent two of the ten cells comprising the South Landfill. The disposal unit was used for the disposal of ruffage (i.e., general trash) generated within the parathion and para-nitrophenol production areas. The general trash included, among other wastes, discarded empty used fiber drums, empty used sample containers, rubber overshoes, gloves, filter papers, etc., which potentially contained residues of parathion, methyl parathion, and/or para-nitrophenol (PNP). Occasionally, spill residues from the clean-up of these same materials were disposed in these cells.

These wastes were considered hazardous by characteristic as listed pursuant to ADEM Administrative Code 335-14-2-.04(4)(e, f): discarded commercial chemical products, off-specification species, container residues and spills of parathion (P089), methyl parathion (P071), and p-nitrophenol (U170). These wastes were collected in dumpsters located at various points within the manufacturing area.

WMA I was closed in compliance with provisions contained in an operating permit issued under the Alabama Hazardous Waste Management and Minimization Act (AHWMMA) and RCRA.

A series of groundwater monitoring wells are located hydraulically downgradient of the unit to detect any potential release from the unit to groundwater. Detections of PCB Aroclor 1248 at concentrations exceeding the applicable RCRA concentration limit occurred at MW-13A during the spring semi-annual sampling event. As further described in Section 4.2.1, appropriate resampling, well replacement, and subsequent sampling activities have taken place and demonstrated that a confirmed release has not occurred and therefore, no further action is necessary at this time pursuant to Section 2.3.2 of Part B, Section 6 of the RCRA Permit Application. Semi-annual sampling will resume with the next routine monitoring event scheduled for April 2023.

2.2.2 WMA II: New Limestone Bed

WMA II, also known as the New Limestone Bed, was used as a surface impoundment for treatment of characteristically hazardous waste. The unit was not used for waste disposal. WMA II was employed to partially neutralize an aqueous process wastewater stream, having the characteristic of corrosivity (D002) prior to biological treatment in the on-site industrial wastewater treatment system. Additionally, as a matter of convenience, the column bottoms from an acetone recovery distillation column (F003) flowed through this surface impoundment. As with WMA I, WMA II was closed in compliance with provisions contained in an operating permit issued under the AHWMMA and RCRA. A series of interceptor wells located near the northern boundary of OU-3 addresses a release to groundwater in WMA II (see Figure 4).

2.2.3 SWMU 1: South Landfill

The South Landfill was operated from 1960 to 1988 and included ten individual closed disposal cells (i.e., 1W, 2W, 2WA, 3W, 4W, 1E, 2E, 3E, 4E, and 5E). As noted above, Cells 4E and 5E have been designated as WMA I. The remaining cells have been designated as SWMU 1, which has been referred to EPA as noted in Table IV.4 of the current RCRA permit.

Interim corrective measures were constructed to prevent transport of affected soils from the South Landfill. These measures included the installation of a multi-layer cap and drainage controls over the waste, with a clay and vegetative cap around the disposal areas. As part of the CERCLA RA work, the caps atop cells 1E, 2E, and 3E (referred to as the PCB cells) of the South Landfill were upgraded to be compliant with the provisions of RCRA, 42 U.S.C. §6901 et seq. (1976) Subtitle C during the period of mid-2015 to early 2016 (Solutia, 2017b).

Water from a pre-existing seep was observed emanating from beneath the cap at Cell 3E following construction in 2016. A seep collection, conveyance, and treatment system were installed in 2018 to collect water from beneath the cap. The system has been upgraded periodically to increase capacity and reduce iron fouling.

A series of interceptor wells (IWs) located north of the unit (including well IW-14A to the west of Clydesdale Blvd.) addresses a release to groundwater in SWMU 1 (see Figure 4).

2.2.4 CERCLA Remedial Action Corrective Action Areas

The groundwater remedy for OU-3 includes interceptor wells in the vicinity of the two groundwater impact areas identified near wells OW-21A and OW-10 (see Figure 4). An additional component of the groundwater remedy for the Site includes monitored natural attenuation (MNA) for

addressing parathion and PNP. Previous data indicate that this is only applicable in the OW-21A area. Parathion and PNP concentrations were less than CERCLA Remediation Goals in other portions of the Site.

2.3 Shallow Stratigraphy and Groundwater Occurrence

2.3.1 Shallow Stratigraphy

Previous investigations conducted at the facility have described the shallow stratigraphy beneath the site (particularly Solutia Inc. and Pharmacia Corporation, 2008). Cross-sections prepared for the RCRA Permit Renewal Application (Solutia, 2018) are provided on Figures 5 and 6, which were initially presented as Figures C-4 and C-5, respectively, in the 2008 RCRA Part B Post-Closure Permit Application (Solutia, 2008). General descriptions of the shallow stratigraphic units beneath the facility are provided below.

- **Residuum**: Beneath most of the OU-3 area, the near-surface geology consists of low-permeability residuum composed of silts and clays. In general, boring logs indicate the residuum becomes denser with depth, as expected in a typical weathering profile. For this reason, the residuum has been loosely divided into two units, the shallow and deep, as further described below. The residuum extends to a depth of more than 100 feet below ground surface (bgs) and acts as a semi-confining unit to the underlying Shady Dolomite.
  - Shallow Residuum: The material from the surface to a depth of about 45 feet bgs is referred to as the shallow residuum. The unit consists of sandy and silty clays, with fine-to-coarse-grained sand lenses and extends laterally across most of the facility. Where water-bearing, the shallow residuum represents the uppermost aquifer beneath the site.
  - Deep Residuum: The material from about 45 feet bgs to the top of weathered bedrock is referred to as the deep residuum.
- **Bedrock**: The deep residuum is underlain beneath most of the facility by dolostone or dolomitic limestone bedrock of the Shady Dolomite Formation, which is encountered at an average approximate depth of 100 feet bgs. At the northernmost area of OU-3, several borings have encountered the highly weathered shale of the Rome Formation underlying the residuum at an approximate depth of 50 feet bgs. To the south, one boring penetrated both the residuum and dolostone, encountering quartzite bedrock of the Weisner Formation (Figure 5).

2.3.2 Hydrology

Historical groundwater measurements indicate that groundwater generally flows to the north in the shallow residuum, the deep residuum, and the shallow bedrock units (Solutia, 2018). This general flow direction reflects the surface topography, especially within the shallow residuum which is generally encountered under unconfined conditions. This includes the northern face of Coldwater Mountain to the south of the site, which trends from an average slope of approximately 12% to a flatter gradient of approximately 2% across the production area of the facility.

Locally, the shallow groundwater gradient is influenced by anthropogenic features such as backfilled excavations, caps, etc., which produce variable hydraulic conductivities and groundwater recharge rates. Also, the groundwater extraction systems influence the groundwater flow patterns in localized areas of the Site. Additional detail on current groundwater flow patterns is provided in Section 5.1.

Monthly rainfall totals at the site are presented in Table 7 for the last five years. The annual rainfall for 2022 was 63.75 inches, measured on-site.

2.3.3 Selection of Monitoring Parameters

Previous groundwater sampling and testing programs conducted at the Solutia Anniston facility have identified potential COCs to be analyzed during groundwater monitoring programs. Remediation standards have been defined as the RCRA Concentration Limits for corrective actions currently being implemented in accordance with the requirements of the RCRA Permit, Remediation standards have been defined as CERCLA Remediation Goals for remedial action being conducted in accordance with the IROD,. Remediation standards are provided on Table 5 along with the 2022 groundwater monitoring results.

3.0 GROUNDWATER SAMPLING PROCEDURES

3.1 Basis for Groundwater Monitoring

Groundwater sampling and analysis were conducted semi-annually in accordance with the Quality Assurance Project Plan (Solutia, 2018) from the RCRA Permit Renewal Application, along with the OU-3 Performance Standards Verification Program Sampling and Analysis/Quality Assurance Project Plan (PSVP SA QAPP; Solutia, 2015a).

3.2 Sampling Procedures

Groundwater samples and field measurements were collected from the specified wells during April and October 2022 (see Table 2). Additional samples and field measurements were collected from MW-13A and its replacement well, MW-13A-R, as part of re-sampling and testing activities following validated detection(s) of PCBs above the applicable RCRA concentrations limits (see Section 4.2.1). Well construction specifications are provided in Appendix A.

3.2.1 Groundwater Elevation Measurements

Prior to groundwater sampling, groundwater levels were measured in wells from which samples were to be collected and from other monitoring wells and piezometers located throughout and surrounding OU-3. Measurements were completed on 4 April and 24 October 2022, using electronic water level indicators having an accuracy of 0.01 feet. Groundwater elevations were tabulated (see Table 4) and used to construct potentiometric surface contour maps for the Shallow Residuum as discussed in Section 4.1 (see Figures 7a and 7b).

Note that well MW-13A was replaced with well MW-13A-R in October 2022 prior to the fall semi-annual monitoring event, following discovery of well integrity issues in June 2022 (Solutia, 2022c). Figure 2a indicates the monitoring well network as it existed in April 2022 and Figure 2b indicates the monitoring well network as it existed in October 2022.

3.2.2 Groundwater Sample Collection

3.2.2.1 Well Purging and Sampling

Monitoring wells were purged, and samples were collected, using low-flow procedures as specified in the applicable sampling and analysis plans (Solutia, 2015a; 2018). Wells sampled as part of the RCRA Groundwater Detection Monitoring and RCRA Groundwater Corrective Action Monitoring programs are equipped with dedicated bladder pumps used for both purging and sampling. In wells sampled as part of the CERCLA Remedial Action, portable bladder pumps are used for both purging and sampling. The portable bladder pumps are decontaminated, and new, unused bladders are installed before use at each well.

Wells were purged at a rate of 0.1 to 0.5 L/min to produce minimal drawdown, and field indicator parameters were recorded until measurements stabilized to within specified ranges. Purge water was treated using granular activated carbon and discharged into the facility decontamination pit, which discharges to the facility equalization system and then to the Anniston publicly owned treatment works. Temperature, pH, specific conductance, turbidity, dissolved oxygen, and redox potential (i.e., field indicator parameters) were measured in the field during purging. Table 3 summarizes the values measured after stabilization, and immediately prior to collecting the samples.

3.2.2.2 Laboratory Analyses

Groundwater samples were collected in method specified containers and shipped under chain-of-custody control to Eurofins TestAmerica Laboratories, Inc. in Savannah, Georgia. Samples were analyzed for the COCs listed on Table 2. Trip blanks, field blanks, equipment blanks, field duplicates, and matrix spike/matrix spike duplicate pairs were collected as described in the Data Validation Summary included as Appendix F. Complete laboratory reports and their respective data evaluation checklists are provided in Appendix H.

3.2.2.3 Sample Filtration

Sampling procedures for groundwater monitoring conducted under RCRA specify filtration of PCB and metals samples using a 0.1-micron filter (Solutia, 2018), while CERCLA procedures specify a 2-micron filter (Solutia, 2015). Because 2-micron filters are not readily available commercially and because some CERCLA wells are also part of the RCRA monitoring program, all sample filtration for the 2022 monitoring program was conducted using 0.1-micron filters. For CERCLA-related performance assessment, including comparison of sample results to CERCLA Remediation Goals and concentration trend analyses for CERCLA wells, only the results for unfiltered samples are utilized. Results for both unfiltered and filtered samples are provided in tables and figures.

4.0 EVALUATION OF GROUNDWATER MONITORING RESULTS

4.1 Groundwater Flow Rate and Direction

Potentiometric surface maps have been prepared for the Shallow Residuum unit using groundwater measurements collected in April 2022 and October 2022 (see Figures 7a and 7b, respectively). Consistent with historical trends, most groundwater elevations were approximately 2 to 10 feet higher in April than in October 2022.

Both April and October 2022 groundwater gradients are consistent with those presented in previous annual groundwater monitoring reports and indicate similar groundwater flow directions and seepage velocities.

4.1.1 Shallow Residuum

Groundwater within the Shallow Residuum flows in a general north to northeasterly direction under a hydraulic gradient of approximately 0.03 (see Figures 7a and 7b). Based on previous aquifer testing, the geometric mean hydraulic conductivity of the Shallow Residuum is approximately 1.5 x 10^{-2} feet per day (5.4 x 10^{-6} cm/sec; Solutia, 2007). The effective porosity of the residuum is estimated at 20% (Solutia, 2007). The groundwater seepage velocity within the Shallow Residuum can be calculated using Darcy's Law (Freeze and Cherry, 1979) shown in the following equation.

$$V_s = \frac{Ki}{N_e}$$

Where: V_S = seepage velocity, K = hydraulic conductivity, i = hydraulic gradient, and N_e = effective porosity. Based on the inputs above, the seepage velocity for the Shallow Residuum is calculated at approximately 1 foot per year. Note that transport of organic compounds would be slower than this calculated velocity due to sorption onto naturally occurring organic material within the groundwater-bearing unit.

4.2 Groundwater Quality

The overall results of the groundwater monitoring conducted in 2022 indicate that detected COCs and respective concentrations are generally consistent with previous results. A summary of COCs detected during the April and October 2022 groundwater monitoring events is presented in this section and on Table 5. The table indicates those wells which were sampled in accordance with the RCRA Groundwater Detection Monitoring Program, the RCRA Corrective Action Monitoring Program, and the CERCLA Remedial Action Program. Note that samples are collected and analyzed from the following four wells to satisfy the requirements of the latter two programs.

- **Well OW-08A:** Sampled for PCB Aroclors, cobalt, mercury, chlorobenzene, O,O,O-triethylphosphorothioate, 4-nitrophenol, 1,2-dichlorobenzene, 1,4-dichlorobenzene, parathion, and tetraethyldithiopyrophosphate per the RCRA Corrective Action Monitoring Program and indeno(1,2,3-cd)pyrene and manganese per the CERCLA Remedial Action Program.

- **Well OW-16A:** Sampled for PCB Aroclors, cobalt, mercury, chlorobenzene, O,O,O-triethylphosphorothioate, 4-nitrophenol, 1,2-dichlorobenzene, 1,4-dichlorobenzene, parathion, and tetraethyldithiopyrophosphate per the RCRA Corrective Action Monitoring Program and 1,2,4-trichlorobenzene and manganese per the CERCLA Remedial Action Program.

- **Well OW-21A:** Sampled for PCB Aroclors, cobalt, mercury, chlorobenzene, O,O,O-triethylphosphorothioate, 4-nitrophenol, 1,2-dichlorobenzene, 1,4-dichlorobenzene, parathion, and tetraethyldithiopyrophosphate per the RCRA Corrective Action Monitoring Program and manganese per the CERCLA Remedial Action Program. Based on concentrations of these COCs in OW-21A, the area in the vicinity of well OW-21A was designated as a Corrective Action area addressed by the CERCLA Remedial Action Program.

- **Well MW-14:** Sampled for PCB Aroclors, cobalt, mercury, chlorobenzene, O,O,O-triethylphosphorothioate, 4-nitrophenol, 1,2-dichlorobenzene, 1,4-dichlorobenzene, parathion, and tetraethyldithiopyrophosphate per the RCRA Corrective Action Monitoring Program and manganese per the CERCLA Remedial Action Program.

Groundwater monitoring data have been compared to applicable RCRA Concentration Limits or the CERCLA Remediation Goals, and concentrations exceeding applicable limits are highlighted on Table 5.

4.2.1 WMA I Groundwater Detection Monitoring

No COCs were detected in the background well (MW-01B) or in two of the three POC wells hydraulically downgradient from WMA I (i.e., MW-11A and MW-12A) above the RCRA Concentration Limits (see Figure 10).

A detection of PCB Aroclor 1248 was reported at a concentration of 0.7 micrograms per liter (µg/L), above the RCRA concentration limit of 0.5 µg/L, at the third POC well, MW-13A, during the spring semi-annual sampling event. The following actions were taken in response to this detection:

- Notification of the PCB detection at MW-13A was submitted to ADEM on 10 May 2022 (Solutia, 2022a);

- MW-13A was re-sampled on 25 May 2022 and 22 June 2022, pursuant to the RCRA Permit Application, and detections of PCB Aroclor 1248 above the applicable RCRA concentration limits were reported for both events (Solutia, 2022b);

- A video survey conducted after the June 2022 sampling event indicated an integrity issue at MW-13A allowing water and sediment to enter the well at casing joints above the well screen. On this basis, abandonment and replacement of MW-13A was proposed in the *Well Abandonment and Replacement Plan for MW-13A* (Solutia, 2022b);

- MW-13A was abandoned via overdrilling and pressure grouting and replaced with a new well, identified as MW-13A-R, with the same location, design, and depth as MW-13A in October 2022 (Solutia, 2022c);

- MW-13A-R was sampled as part of the fall semi-annual sampling event on 26 October 2022, and a detection of PCB Aroclor 1248 was reported at a concentration of 0.57 µg/L;
- Notification of the PCB detection at MW-13A-R was submitted to ADEM on 12 January 2023 (Solutia, 2023a);
- MW-13A-R was re-sampled on 18 January 2023, pursuant to the RCRA Permit Application, and PCB Aroclor 1248 was not detected above the RCRA Concentration Limit;
- Results of the January 2023 re-sampling was submitted to ADEM on 17 February 2023, indicating that no further action is necessary and semi-annual sampling of MW-13A-R will resume with the next routine monitoring event scheduled for April 2023 (Solutia, 2023b);
- A Request for a Minor Modification of RCRA Permit No. ALD 004 019 048 was submitted to ADEM to revise the identification of the POC well from MW-13A to MW-13A-R on 17 February (Solutia, 2023c).

Based on the findings described above, current monitoring data indicates that no confirmed release from WMA I has occurred.

4.2.2 WMA II and SWMU 1 Groundwater Corrective Action Monitoring

Of the 13 wells monitored at WMA II and SWMU 1, including the background well (MW-01B), eight wells evidenced no detections greater than the RCRA Concentration Limits for any analyte. Concentrations in groundwater samples were less than RCRA Concentration Limits for all volatile organic compounds and metals analyzed (see Figures 11 and 15). The monitoring locations and COCs that exceeded their respective RCRA Concentration Limits in the WMA II and SWMU 1 wells are summarized in Exhibit 1 below.

Exhibit 1. Summary of RCRA Concentration Limit Exceedances

Well	Unit	COC Exceeding RCRA Concentration Limit
OW-08A	SWMU 1	Total PCBs (unfiltered)
OW-16A	SWMU 1	Total PCBs (unfiltered)
MW-20A	WMA II	Pentachlorophenol
OW-21A	WMA II	Total PCBs (unfiltered) 4-Nitrophenol O,O,O-Triethylphosphorothioate Parathion
OW-22	WMA II	Total PCBs (unfiltered)

As noted above, well OW-21A is monitored per the RCRA Corrective Action Monitoring Program, while the OW-21A area is addressed by the CERCLA Remedial Action Program. Results of OW-21A, along with results from other wells monitored in this area are discussed in detail below in section 4.2.3 in context of the CERCLA Remedial Action Program. Specific results and notable differences from previous monitoring events are discussed in more detail below.

- ***PCB Results in Filtered Samples***: Total PCB Aroclors were less than the applicable RCRA Concentration Limit of 0.5 micrograms per liter (µg/L) in all eight filtered samples (see Figure

11). Overall, the sampling results demonstrate that PCB detections in groundwater are primarily associated with entrained sediments that are typically removed through filtration.

- ***CERCLA Results for Well OW-16A***: As noted above, samples collected from OW-16A are analyzed for 1,2,4-trichlorobenzene, which has been assigned a Remediation Goal under CERCLA but not a Concentration Limit under RCRA. The concentration of 1,2,4-trichlorobenzene at well OW-16A exceeded the CERCLA Remediation Goal as discussed below in section 4.2.3.3. Based on the Mann-Kendall statistical trend analysis, no trend for this COC has been established.
- ***CERCLA Results for Well OW-21A***: As noted above, samples collected from OW-21A are analyzed for manganese, which has been assigned a Remediation Goal under CERCLA but not a Concentration Limit under RCRA. The concentration of manganese at well OW-21A exceeded the CERCLA Remediation Goal as discussed below in section 4.2.3.3. Based on the Mann-Kendall statistical trend analysis, no trend for this COC has been established.
- ***Notable Differences from Prior Monitoring Events***: At monitoring well OW-21A, parathion was reported a concentration of 280 µg/L, which is about one to two orders of magnitude less than the historical concentration range. Mann-Kendall statistical analysis now indicates a "decreasing" trend for parathion at this well over the entire monitoring record (see Figure 13 and Appendix G, Figure G.6).

4.2.3 CERCLA Performance Verification Sampling

Results from the April 2022 groundwater sampling as conducted in accordance with the PSVP SA QAPP (Solutia, 2015a) are summarized below and on Figures 14 through 17. The monitoring locations and COCs that exceeded their respective CERCLA Remediation Goals at OU-3 are summarized in Exhibit 2 below.

Exhibit 2. Summary of CERCLA Remediation Goal Exceedances

Well	Area	COC Exceeding CERCLA Remediation Goal
OW-21A	OW-21A	Total PCBs 4-Nitrophenol Parathion Manganese
T-04	OW-21A	Total PCBs
T-09	OW-21A	Total PCBs
OW-10	OW-10	Total PCBs Manganese Mercury
T-20	OW-10	Manganese
OWR-11	Other Areas Within OU-3	Total PCBs Cobalt Manganese
OWR-13	Other Areas Within OU-3	Total PCBs
OWR-14D	Other Areas Within OU-3	Total PCBs
OWR-15D	Other Areas Within OU-3	Total PCBs
OW-16A	Other Areas Within OU-3	1,2,4-Trichlorobenzene
T-18	Other Areas Within OU-3	Total PCBs

Specific results and notable differences from previous monitoring events are discussed in more detail in the following sections.

4.2.3.1 Well OW-21A Corrective Action Area

- ***Volatile Organic Compounds:*** All concentrations of VOCs were less than the CERCLA Remediation Goals for all wells in the well OW-21A Corrective Action Area (see Figure 14).
- ***Pesticides and Semi-Volatile Organic Compounds:*** At well OW-21A, concentrations of one pesticide (parathion) and one SVOC (4-nitrophenol) exceeded CERCLA Remediation Goals (see Figure 15). As discussed above in section 4.2.2, parathion at well OW-21A was reported at a concentration one to two orders of magnitude lower than historical concentrations. Mann-Kendall statistical analysis now indicates a “decreasing” trend for parathion at this well over the entire monitoring record (see Figure 13 and Appendix G, Figure G.6). The concentration of 4-nitrophenol at well OW-21A is stable according to Mann-Kendall statistical analysis (see Figure 13 and Appendix G, Figure G.1).
- ***PCB Aroclors:*** PCB Aroclors were detected in groundwater samples collected from three of the four wells sampled in the well OW-21A Corrective Action Area (OW-21A, T-04, and T-09; see Figure 16). At well T-04, located hydraulically upgradient of OW-21A, total PCBs were reported at a concentration of 76.2 µg/L. At well T-09, located hydraulically downgradient of OW-21A, total PCBs were reported at a concentration of 4.8 µg/L (average of duplicate samples). Mann-Kendall statistical trend analysis indicates a “probably increasing” and “increasing” concentration trend for PCBs at wells T-04 and T-09, respectively. At well OW-21A, total PCBs were reported at a total concentration of 31.9 µg/L, down from 73.8 µg/L in 2021. Mann-Kendall trend analysis continues to indicate a “decreasing” concentration trend for PCBs at OW-21A (see Figure G.4 of Appendix G).

- ***Metals:*** Manganese at well OW-21A exceeded CERCLA Remediation Goals (see Figure 17). Based on the Mann-Kendall statistical trend analysis, no trend for this COC has been established (see Figure G.12 of Appendix G).

4.2.3.2 Well OW-10 Corrective Action Area

- ***Volatile Organic Compounds***: All concentrations of VOCs were less than the CERCLA Remediation Goals for all wells in the well OW-10 Corrective Action Area (see Figure 14).
- ***PCB Aroclors***: At well OW-10, PCB Aroclors exceeded CERCLA Remediation Goals (see Figure 16). Based on the Mann-Kendall statistical trend analysis, no trend has been established (see Appendix G, Figure G.8(A)). A PCB Aroclor detection was also reported in well T-20, located downgradient of OW-10, at a concentration of 2.1 µg/L, exceeding the CERCLA Remediation Goal (see Figure 16). Based on the Mann-Kendall statistical trend analysis, no trend has been established (see Appendix G, Figure G.8(B)).
- ***Metals***: At well OW-10 manganese and mercury concentrations exceeded their respective CERCLA Remediation Goals (see Figure 17). In the downgradient well T-20, manganese concentrations also exceeded the CERCLA Remediation Goal. Concentrations of manganese and mercury in the OW-10 area are consistent with historical data.

4.2.3.3 Other Areas Within OU-3

Nine wells are sampled across OU-3 under the CERCLA Remedial Action Program for PCB Aroclors, PCB Homologs, and metals. As discussed in section 4.2, the RCRA Corrective Action Monitoring wells OW-16A and OW-08A are also sampled for one VOC and one SVOC, respectively, under the CERCLA Remedial Action Program. Results for sampling of these eleven wells within OU-3 are summarized below:

- ***Volatile Organic Compounds:*** A concentration of 550 µg/L was reported for 1,2,4-trichlorobenzene at well OW-16A, which exceeded the CERCLA Remediation Goal of 70 µg/L (see Figure 14).
- ***Semi-Volatile Organic Compounds:*** Indeno(1,2,3-cd)pyrene, the only compound analyzed at well OW-08A under the CERCLA Remedial Action program, was not detected (see Figure 15).
- ***PCB Aroclors****:* The concentrations of total PCB Aroclors were less than the reporting limit at four wells (i.e., WEL-01, WEL-04, OWR-03S, and T-06). Reported concentrations of total PCB Aroclors in unfiltered samples exceeded the CERCLA Remediation Goal of 0.5 µg/L at the other five wells (i.e., OWR-11, OWR-13, OWR-14D, OWR-15D, and T-18; see Figure 16).
- ***PCB Homologs****:* Reported concentrations of total PCB Homologs in unfiltered samples were less than the reporting limit at one well, OWR-14D. Reported concentrations of total PCB Homologs in unfiltered samples exceeded the CERCLA Remediation Goal of 0.5 µg/L at the OWR-13 and T-18 (see Figure 16 and Table 5).
- ***Metals:*** Concentrations of cobalt were less than CERCLA Remediation Goals in all but one well, OWR-11 (see Figure 17). Concentrations of manganese were less than CERCLA Remediation Goals in all but two wells, OWR-11 and T-20 (see Figure 17).

5.0 EVALUATION OF CORRECTIVE ACTION SYSTEMS

5.1 Capture of Affected Groundwater

- ***RCRA Groundwater Corrective Action:*** Operation of IWs has successfully controlled migration of affected groundwater as demonstrated by cones of depression maintained by the interceptor wells at WMA II and SWMU 1 (see Figures 7a and 7b).
- ***CERCLA RA:*** In the Corrective Action Areas near wells OW-21A and OW-10, recovery of impacted groundwater occurs throughout the year (see Table 6), with COCs detected in the influent to the treatment system (see Figures 7a and 7b).

5.2 Corrective Action Systems Operation

A summary of the operation of the corrective action systems during calendar year 2022 is provided below:

- ***WMA II, New Limestone Bed:*** Groundwater was recovered from a total of 11 interceptor wells located immediately downgradient of WMA II (i.e., wells IW-16 through IW-25 and DW-01; see Figures 2a and 2b). Volumes of recovered groundwater are measured for the entire well network and totaled more than 0.54 million gallons during 2022 (see Table 6). Water is collected in a tank for subsequent on-site management.
- ***SWMU 1, South Landfill:*** More than 0.70 million gallons was recovered in 2022 from the 11 interceptor wells located along the western and northern sides of SWMU 1 (i.e., wells IW-02, IW-05 through IW-08, and IW-10 through IW-14A; see Table 6 and Figures 2a and 2b). Recovered groundwater is treated by filtration and granular activated carbon (GAC) in Carbon Treatment System (CTS) #3 (except for well IW-14A, which discharges to CTS #2 for treatment). The treated groundwater from CTS #3 is discharged to the Anniston Water Works and Sewer Board (AWWSB) sewer system in accordance with State Indirect Discharge (SID) Permit Number IU350800048 (effective October 1, 2018). The volume of groundwater recovered by the system in 2022 is within the range of the previous five-year period when between 0.3 and 0.8 million gallons were recovered each year.
- CTS #3 also treats water collected by the Cell 3E seep collection and conveyance system. In 2021, seep water treated at CTS #3 totaled approximately 0.27 million gallons (this volume is in addition to the volume of groundwater recovered by the SWMU 1 IWs).
- ***Well OW-21A Corrective Action Area:*** A total of more than 1.03 million gallons of groundwater was recovered from wells IW-26 and IW-27 located downgradient of well OW-21A (see Table 6 and Figures 2a and 2b). Water is treated by filtration and GAC in CTS #1, and the treated groundwater is discharged to the AWWSB sewer system per the SID permit (effective October 1, 2018).
- ***Well OW-10 Corrective Action Area:*** Approximately 148,700 gallons of groundwater were recovered from wells IW-28 and IW-29 located downgradient of well OW-10 (see Table 6 and Figures 2a and 2b). Water is treated by filtration and GAC in CTS #2, and the treated groundwater is discharged to the AWWSB sewer system per the SID permit (effective October 1, 2018).

5.3 Groundwater Monitoring Concentration Trend Analyses

To evaluate the effectiveness of the Corrective Action and Remedial Action systems for reducing COC concentrations in groundwater, trends of COC concentrations versus time have been analyzed. The Mann-Kendall statistical analysis was employed for this purpose.

5.3.1 Description of the Mann-Kendall Test

The Mann-Kendall test is a non-parametric statistical procedure that is well suited for analyzing trends in data over time (Gilbert, 1987; Aziz et al., 2003; Connor, 2014). The Mann-Kendall test can be viewed as a non-parametric test for zero slope of the first-order regression of time-ordered concentration data versus time. The Mann-Kendall test does not require any assumptions as to the statistical distribution of the data (e.g. normal, lognormal, etc.) and can be used with data sets which include irregular sampling intervals and missing data. The Mann-Kendall test is designed for analyzing a single groundwater constituent; multiple constituents are analyzed separately.

5.3.2 Interpretation of Mann-Kendall Test Results

The Coefficient of Variation (COV) is a statistical measure of how the individual data points vary about the mean value. Values less than or near 1.00 indicate that the data form a relatively close group about the mean value. Values larger than 1.00 indicate that the data show a greater degree of scatter about the mean.

The Mann-Kendall statistic (S) measures the trend in the data. Positive values indicate an increase in constituent concentrations over time, whereas negative values indicate a decrease in constituent concentrations over time. The strength of the trend is proportional to the magnitude of the Mann-Kendall Statistic (i.e., large magnitudes indicate a strong trend). The "Confidence in Trend" is the statistical confidence that the constituent concentration is increasing (S>0) or decreasing (S<0). The "Concentration Trend" for each well is determined according to the decision matrix shown in Exhibit 3 below.

Exhibit 3. Mann-Kendall Analysis Decision Matrix

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	95%	Decreasing

5.3.3 Mann-Kendall Analysis of OU-3 Groundwater Monitoring Data

The majority of the COCs monitored at OU-3 are either not detected above laboratory detection limits or are present at concentrations below applicable remedial limits; therefore, for most COCs, corrective action or remediation goals have already been achieved. For those COCs and monitoring locations where concentrations exceed remedial criteria, the Mann-Kendall trend analysis has been applied to evaluate overall plume stability and corrective action effectiveness for groundwater. The Mann-Kendall trend analysis has been applied to all COCs with concentrations that exceeded remedial criteria between 2017-2022 as summarized in Exhibit 4 below.

As summarized in Exhibit 4, a total of ten COCs at 18 monitoring locations have had concentrations exceeding remedial criteria between 2017 and 2022, resulting in trend calculation for 33 COC/well combinations. Where a trend has been established using the Mann-Kendall statistical analysis, 23 of the 33 trend results were Stable, Probably Decreasing, or Decreasing, while only 4 of the 33 trend results were Probably Increasing or Increasing. For the remaining 6

of the 33 trend results, no trend has been established due to low statistical confidence in the trend and/or high variability in the monitoring data. Four of the 6 “no trend” results are associated with CERCLA monitoring wells, which have had six monitoring events (a minimum of four monitoring events is required to calculate a trend). Five additional trend results were unable to be calculated due to a preponderance of non-detect results.

Exhibit 4. Results of Mann-Kendall Statistical Analysis

Unit or Corrective Action Area/Well	Constituent of Concern	Mann-Kendall Statistic (S)	Confidence Factor	Concentration Trend
WMA II				
MW-20A	Pentachlorophenol	-361	>99.9%	***Decreasing***
OW-22	Total PCBs	71	95.9%	*Increasing*
	Total PCBs (Filtered)	--	--	***Not Detected***
SWMU 1				
OW-08A	Total PCBs	-92	90.2%	***Prob. Decreasing***
	Total PCBs (Filtered)	--	--	***Not Detected***
OW-15	Total PCBs	122	95.7%	*Increasing*
	Total PCBs (Filtered)	--	--	***Not Detected***
OW-16A	Total PCBs	-18	59.5%	***Stable***
	Total PCBs (Filtered)	--	--	***Not Detected***
	1,2,4-TCB	2	57.0%	*No Trend*
OW-21A Area				
OW-21A	4-Nitrophenol	-11	62.6%	***Stable***
	O,O,O-TEPP	-42	90.7%	***Prob. Decreasing***
	Total PCBs	-84	99.7%	***Decreasing***
	Total PCBs (Filtered)	--	--	***Not Detected***
	Parathion	-59	96.0%	***Decreasing***
	Manganese	1	50.0%	*No Trend*
T-04	Total PCBs	9	93.2%	*Prob. Increasing*
T-09	Total PCBs	11	97.2%	*Increasing* **
OW-10 Area				
OW-10	Total PCBs	-4	70.3%	*No Trend*
	Manganese	-7	86.4%	***Stable***
	Mercury	5	76.5%	*No Trend*
	Beryllium	-6	81.5%	***Stable***
T-20	Total PCBs	7	86.4%	*No Trend*
	Manganese	-13	99.2%	***Decreasing***
Other Areas Within OU-3				
OWR-11	Total PCBs	-3	64.0%	***Stable***
	Cobalt	-12	98.2%	***Decreasing***
	Manganese	-10	95.2%	***Decreasing***
OWR-13	Total PCBs	-3	64.0%	*No Trend*
OWR-14D	Total PCBs	-2	57.0%	***Stable***
OWR-15D	Total PCBs	1	50.0%	*No Trend*
T-06	Total PCBs	-5	76.5%	***Stable***
T-18	Total PCBs	7	86.4%	*No Trend*
WEL-01	Total PCBs	-3	64.0%	***Stable***

Notes:
1. See Appendix G for complete Mann-Kendall results.
2. O,O,O-TEPP = O,O,O-Triethylphosphorothioate
3. 1,2,4-TCB = 1,2,4-Trichlorobenzene; only analyzed in OW-16A per CERCLA
4. Not Detected = More than 75% of the sample results for this constituent in this well are non-detect, so a trend was not calculated to avoid calculating a trend on detection limits.

** PCB concentrations at well T-09 are most likely associated with elevated turbidity resulting from compromised well integrity.

5.4 Conclusions

At WMA II and SWMU 1, concentrations of all COCs exceeding the respective RCRA Remedial Goals evidence a decreasing, stable, or no trend, with exception of OW-15 and OW-22, both of which are discussed further below. Overall, the calculated trends are generally consistent with the trends previously presented. At OW-15, associated with SWMU 1, and at OW-22, associated with WMA II, an increasing trend is calculated for total PCBs (unfiltered). At both locations, these results appear to be a function of high variability and numerous non-detects in the early monitoring period between 1998 and 2008. Since 2009, PCB concentrations measured in OW-15 have been consistently between approximately 1 and 6 µg/L, but notably, PCBs have not been detected (above the 0.5 ug/L reporting limit) in OW-15 since 2020. At OW-22, PCB concentrations measured since 2009 have been consistently between approximately 0.5 and 1.6 µg/L. Both OW-15 and OW-22 exhibit occasional non-detect PCB results over the monitoring history (see Figure G.4 in Appendix G). The filtered samples in both wells have been all non-detect, further demonstrating the effectiveness of the groundwater remediation efforts for SWMU 1 (see Figure G.5 in Appendix G).

Trends for monitoring wells in the CERCLA Corrective Action Areas also evidence decreasing, probably decreasing, stable, or no trend, with the exception of T-04 and T-09. Groundwater in the vicinity of T-04 is likely being captured and treated by the downgradient OW-21A Corrective Action system. At T-09, groundwater impacts appear to be localized and not the result of downgradient migration from the OW-21A Corrective Action Area based on the following lines of evidence:

- PCB Homologs were detected at T-09 in 2008 as part of the OU-1/OU-2 Remedial Investigation (Solutia, 2015) prior to startup of the OW-21A Corrective Action system in 2017.

- PCB detections appear to be associated with elevated turbidity, as the concentration increases reported since 2018 have corresponded to elevated turbidity measurements. A recent effort to redevelop T-09 indicated the well is producing significant amounts of fine-grained sand, indicating the well is incapable for providing representative samples. Solutia intends to replace monitoring well T-09 in May or June 2023 and will submit notice to USEPA and ADEM of this plan under separate cover, prior to commencing with well replacement activities. The annual groundwater sample at the well T-09 area will be collected from the replacement well following installation and development.

- The distribution of PCB Aroclors detected in T-09 is limited to Aroclor 1248 and 1254, whereas samples collected from OW-21A contain additional Aroclors (1221 and 1260).

- Other COCs including 4-nitrophenol and parathion, which are present at elevated concentrations in OW-21A, have not been detected at T-09.

In summary, the trend data indicate that the Corrective Action Systems and the Remedial Action are both progressing toward applicable cleanup limits by achieving predominantly declining or stable concentrations of COCs in groundwater.

6.0 REFERENCES

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2022 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia Inc. Anniston, Alabama

RCRA Post-Closure Permit ALD 004 019 048

Consent Decree Docket No. 1:02-ec-0749-KOB

TABLES

Table 1. Well Designations for Groundwater Monitoring Programs

Table 2. Well Sampling Frequency and Analytical Program

Table 3. Groundwater Field Parameters

Table 4. Groundwater Elevation Measurements

Table 5. Results of Groundwater Testing: Detected Analytes

Table 6. Volumes of Groundwater Recovered During 2022

Table 7. Monthly Rainfall 2018 to 2022

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TABLE 1
WELL DESIGNATIONS FOR GROUNDWATER MONITORING PROGRAMS

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

WELL NUMBER	WELL TYPE	UNIT(S) BEING MONITORED
RCRA Permit Designated Wells		
DW-01	Recovery	WMA II, SWMU 8
IW-02	Recovery	SWMU 1
IW-05	Recovery	SWMU 1
IW-06	Recovery	SWMU 1
IW-07	Recovery	SWMU 1
IW-08	Recovery	SWMU 1
IW-10	Recovery	SWMU 1
IW-11	Recovery	SWMU 1
IW-12	Recovery	SWMU 1
IW-13	Recovery	SWMU 1
IW-14A	Recovery	SWMU 1
IW-16	Recovery	WMA II, SWMU 8
IW-17	Recovery	WMA II, SWMU 8
IW-18	Recovery	WMA II, SWMU 8
IW-19	Recovery	WMA II, SWMU 8
IW-20	Recovery	WMA II, SWMU 8
IW-21	Recovery	WMA II, SWMU 8
IW-22	Recovery	WMA II, SWMU 8
IW-23	Recovery	WMA II, SWMU 8
IW-24	Recovery	WMA II, SWMU 8
IW-25	Recovery	WMA II, SWMU 8
MW-01B	Background	WMA I, WMA II, SWMU 1
MW-08	Boundary & Effectiveness	WMA II
MW-09A	Boundary & Effectiveness	WMA II
MW-11A	Point of Compliance	WMA I
MW-12A	Point of Compliance	WMA I
MW-13A-R	Point of Compliance	WMA I
MW-14	Boundary & Effectiveness	WMA II
MW-15	Point of Compliance	WMA II, SWMU 8
MW-16	Point of Compliance	WMA II, SWMU 8
MW-20A	Point of Compliance	WMA II, SWMU 8
OW-06A	Boundary & Effectiveness	SWMU 1
OW-08A	Boundary & Effectiveness	SWMU 1
OW-15	Boundary & Effectiveness	SWMU 1
OW-16A	Boundary & Effectiveness	SWMU 1
OW-21A	Boundary & Effectiveness	WMA II
OW-22	Boundary & Effectiveness	WMA II

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TABLE 1
WELL DESIGNATIONS FOR GROUNDWATER MONITORING PROGRAMS

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

WELL NUMBER	WELL TYPE	UNIT(S) BEING MONITORED
CERCLA Remedial Action Wells		
IW-26	Recovery Well	OW-10 Corrective Action Area
IW-27	Recovery Well	OW-10 Corrective Action Area
IW-28	Recovery Well	OW-10 Corrective Action Area
IW-29	Recovery Well	OW-10 Corrective Action Area
OW-10	Cap & Cover Effectiveness, Expanded Extraction System Performance	OW-10 Corrective Action Area, Area A
OWR-03S	Isolated Detection	OU-3
OWR-11	Cap & Cover Effectiveness	Area A
OWR-13	Cap & Cover Effectiveness	Area B and E
OWR-14D	Isolated Detection	OU-3
OWR-15D	Isolated Detection	OU-3
T-04	Isolated Detection	OU-3
T-06	Isolated Detection	OU-3
T-09	Expanded Extraction System Performance	OW-10 Corrective Action Area
T-10	Expanded Extraction System Performance	OW-21A Corrective Action Area
T-18	Cap & Cover Effectiveness	Area G
T-20	Expanded Extraction System Performance	OW-10 Corrective Action Area
WEL-01	Isolated Detection	OU-3
WEL-04	Isolated Detection	OU-3

Notes:
1. Well locations are shown on Figure 2.
2. Wells OW-6, OW-8, and OW-16 were replaced with wells OW-6A, OW-8A, and OW-16A in March 1998.
   Wells MW-9, IW-14, and OW-21 were replaced with wells MW-9A, IW-14A, and OW-21A in February 2003.
   Well MW-13A replaced with MW-13A-R October 2022.
3. Well types and units are specified in the RCRA Post-Closure Permit No. ALD 004 019 048 issued 21 July 2020 and the OU-3 Performance Standards Verification Sampling and Analysis/Quality Assurance Project Plan issued January 2015.
4. CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   OU = Operable Unit
   OW = Observation Well
   RCRA = Resource Conservation and Recovery Act
   SWMU = Solid Waste Management Unit
   WMA = Waste Management Area

GSI ENVIRONMENTAL

TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
RCRA Permit Designated Wells - April Sampling Event		
MW-01B	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
MW-11A	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
MW-12A	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
MW-13A	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
MW-08	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
MW-09A	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury

GSI ENVIRONMENTAL

TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
RCRA Permit Designated Wells - April Sampling Event (Continued)		
MW-14	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
		Manganese
	Mercury	Mercury
MW-15	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
MW-15 (Filtered)	PCBs	Aroclors
	Metals	Cobalt
	Mercury	Mercury
MW-16	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
MW-16 (Filtered)	PCBs	Aroclors
	Metals	Cobalt
	Mercury	Mercury

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TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
RCRA Permit Designated Wells - April Sampling Event (Continued)		
MW-20A	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		Pentachlorophenol
		2,4,6-Trichlorophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
MW-20A (Filtered)	PCBs	Aroclors
OW-06A	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
OW-08A	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		Indeno(1,2,3-cd)pyrene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
		Manganese
	Mercury	Mercury
OW-08A (Filtered)	PCBs	Aroclors
	Metals	Cobalt
		Manganese
	Mercury	Mercury

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TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
RCRA Permit Designated Wells - April Sampling Event (Continued)		
OW-15	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
OW-15 (Filtered)	PCBs	Aroclors
	Metals	Cobalt
	Mercury	Mercury
OW-16A	VOCs	Chlorobenzene
		1,2,4-Trichlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
		Manganese
	Mercury	Mercury
OW-16A (Filtered)	PCBs	Aroclors
	Metals	Cobalt
		Manganese
	Mercury	Mercury
OW-21A	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
		Manganese
	Mercury	Mercury

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TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
RCRA Permit Designated Wells - April Sampling Event (Continued)		
OW-21A (Filtered)	PCBs	Aroclors
	Metals	Cobalt
		Manganese
	Mercury	Mercury
OW-22	VOCs	Chlorobenzene
	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
OW-22 (Filtered)	PCBs	Aroclors
	Metals	Cobalt
	Mercury	Mercury
Trip Blank (3 samples)	VOCs	Chlorobenzene
		1,2,4-Trichlorobenzene
Field Duplicate 1	VOCs	Chlorobenzene
(1 sample)	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		Pentachlorophenol
		2,4,6-Trichlorophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury
MS/MSD	VOCs	Chlorobenzene
(1 set)	SVOCs	1,2-Dichlorobenzene
		1,4-Dichlorobenzene
		4-Nitrophenol
		Pentachlorophenol
		2,4,6-Trichlorophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
	Mercury	Mercury

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TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
CERCLA Remedial Action Wells - April Sampling Event		
OW-10	VOCs	Trichloroethene
	PCBs	Aroclors
	Metals	Beryllium
		Manganese
	Mercury	Mercury
OW-10 (Filtered)	PCBs	Aroclors
	Metals	Beryllium
		Manganese
	Mercury	Mercury
OWR-03S	PCBs	Aroclors
OWR-11	PCBs	Aroclors
	Metals	Cobalt
		Manganese
OWR-11 (Filtered)	PCBs	Aroclors
	Metals	Cobalt
		Manganese
OWR-13	PCBs	Aroclors
	PCB Homologs	PCB Homologs
OWR-13 (Filtered)	PCBs	Aroclors
	PCB Homologs	PCB Homologs
OWR-14D	PCBs	Aroclors
	PCB Homologs	PCB Homologs
	Metals	Manganese
OWR-14D (Filtered)	PCBs	Aroclors
	PCB Homologs	PCB Homologs
	Metals	Manganese
OWR-15D	PCBs	Aroclors
OWR-15D (Filtered)	PCBs	Aroclors
T-04	PCBs	Aroclors
	Metals	Manganese
T-04 (Filtered)	PCBs	Aroclors
	Metals	Manganese
T-06	PCBs	Aroclors
T-06 (Filtered)	PCBs	Aroclors
T-09	SVOCs	4-Nitrophenol
	PCBs	Aroclors
	Pesticides	Parathion
T-09 (Filtered)	PCBs	Aroclors
T-10	SVOCs	4-Nitrophenol
	PCBs	Aroclors
	Pesticides	Parathion

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TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
CERCLA Remedial Action Wells - April Sampling Event (Continued)		
T-18	PCBs	Aroclors
	PCB Homologs	PCB Homologs
T-18 (Filtered)	PCBs	Aroclors
	PCB Homologs	PCB Homologs
T-20	PCBs	Aroclors
	Metals	Manganese
	Mercury	Mercury
T-20 (Filtered)	Metals	Manganese
WEL-01	PCBs	Aroclors
	Metals	Manganese
WEL-01 (Filtered)	PCBs	Aroclors
	Metals	Manganese
WEL-04	PCBs	Aroclors
	Metals	Manganese
WEL-04 (Filtered)	PCBs	Aroclors
	Metals	Manganese
Trip Blank (2 samples)	VOCs	Trichloroethene
Field Duplicate 2	PCBs	Aroclors
	PCB Homologs	PCB Homologs
	Metals	Manganese
Field Duplicate 2 (Filtered)	PCBs	Aroclors
	PCB Homologs	PCB Homologs
	Metals	Manganese
Field Duplicate 3	SVOCs	4-Nitrophenol
	PCBs	Aroclors
	Pesticides	Parathion
Field Duplicate 4	VOCs	Trichloroethene
	PCBs	Aroclors
	Metals	Beryllium
		Manganese
	Mercury	Mercury
Field Duplicate 4 (Filtered)	PCBs	Aroclors
	Metals	Beryllium
		Manganese
	Mercury	Mercury
MS/MSD (1 set)	VOCs	Trichloroethene
	PCBs	Aroclors
	Metals	Beryllium
		Manganese
	Mercury	Mercury

GSI ENVIRONMENTAL

TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
RCRA Permit Designated Wells - October Sampling Event		
MW-01B	VOCs	Chlorobenzene
	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
MW-11A	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
MW-12A	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
MW-13A-R	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
MW-13A-R (Filtered)	PCBs	Aroclors
MW-15	VOCs	Chlorobenzene
	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
MW-16	VOCs	Chlorobenzene
	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
MW-20A	VOCs	Chlorobenzene
	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
Trip Blank (1 sample)	VOCs	Chlorobenzene

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TABLE 2
WELL SAMPLING FREQUENCY AND ANALYTICAL PROGRAM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Analyses	Analytes
RCRA Permit Designated Wells - October Sampling Event (Continued)		
Field Duplicate (1 sample)	VOCs	Chlorobenzene
	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt
MS/MSD (1 set)	VOCs	Chlorobenzene
	SVOCs	4-Nitrophenol
		O,O,O-Triethylphosphorothioate
	PCBs	Aroclors
	Pesticides	Parathion
		Tetraethyldithiopyrophosphate
	Metals	Cobalt

Notes:

1. Methods:
   VOCs = 8260 PCB Homologs = 680 Mercury = 7470
   SVOCs = 8270 Pesticides = 8141
   PCBs = 8082 Metals (Be, Mn, Co) = 6010
2. CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   MS/MSD = Matrix Spike/Matrix Duplicate
   PCBs = Polychlorinated biphenyls
   RCRA = Resource Conservation and Recovery Act
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
3. Well MW-13A replaced with MW-13A-R October 2022

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TABLE 3
GROUNDWATER FIELD PARAMETERS
Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

WELL ID	SAMPLE DATE	SAMPLE TIME	TEMPERATURE (°C)	pH	SPECIFIC CONDUCTANCE (µmhoS/cm)	TURBIDITY (NTU)	DISSOLVED OXYGEN (mg/L)	ORP (mV)
April 2022								
MW-01B	4/7/2022	9:54	15.97	4.28	21	154.0	6.29	309.7
MW-08	4/10/2022	9:46	17.40	6.12	340	70.3	1.66	133.4
MW-09A	4/10/2022	8:37	18.57	4.96	100	7.43	4.42	186.5
MW-11A	4/4/2022	17:24	16.61	7.25	254	31.3	3.76	46.4
MW-12A	4/10/2022	8:06	15.91	7.50	385	1.61	3.84	222.8
MW-13A	4/5/2022	16:56	16.86	6.89	400	0.29	3.22	103.5
MW-14	4/10/2022	9:39	17.81	6.35	238	325	2.25	180.4
MW-15	4/8/2022	12:27	17.41	6.05	295	14.40	4.40	240.3
MW-16	4/8/2022	12:41	18.44	4.62	50	9.91	0.65	158.0
MW-20A	4/5/2022	13:47	18.44	6.89	1256	10.5	0.31	87.9
OW-06A	4/8/2022	15:36	16.77	4.60	42	5.16	6.40	268.7
OW-08A	4/5/2022	8:00	16.12	6.09	248	4.94	2.94	158.7
OW-10	4/11/2022	7:58	17.69	6.33	952	34.3	4.40	184.3
OW-15	4/5/2022	16:19	17.01	4.91	115	0.79	3.98	196.6
OW-16A	4/5/2022	13:53	16.66	4.89	164	11.1	0.94	228.0
OW-21A	4/10/2022	11:46	19.26	4.23	124	13.1	1.54	185.7
OW-22	4/10/2022	11:33	19.35	4.36	77	63.2	1.86	221.8
OWR-11	4/7/2022	16:42	18.12	3.57	378	9.01	4.31	284.1
OWR-13	4/7/2022	9:48	19.54	5.44	215	6.82	3.83	102.9
OWR-14D	4/6/2022	10:57	20.03	7.13	601	6.94	0.96	26.7
OWR-15D	4/11/2022	10:55	17.04	4.86	169	4.71	0.30	143.3
OWR-3S	4/6/2022	10:33	19.23	4.67	119	37.2	1.28	220.9
T-04	4/10/2022	15:26	18.14	6.35	237	4.20	2.20	183.5
T-06	4/6/2022	16:14	19.19	6.10	84	15.8	4.41	178.9
T-09	4/7/2022	10:03	18.01	5.62	251	11.6	3.60	195.0
T-10	4/7/2022	11:23	18.57	3.80	206	7.80	3.46	171.3
T-18	4/6/2022	16:46	20.70	5.79	250	315	6.05	77.2
T-20	4/7/2022	15:35	18.79	3.45	288	2.70	4.05	197.6
WEL-01	4/10/2022	15:52	16.81	5.03	84	5.58	2.59	141.7
WEL-04	4/6/2022	13:48	18.27	5.17	80	30.5	7.30	194.1
October 2022								
MW-01B	10/25/2022	8:29	17.20	3.96	14.93	7.23	6.17	348
MW-11A	10/26/2022	11:49	16.89	7.75	228.13	6.84	5.18	98.5
MW-12A	10/25/2022	12:02	17.09	7.62	272.74	1.10	4.64	152.4
MW-13A-R	10/26/2022	17:11	17.70	7.04	328.57	2.06	4.34	138.7
MW-15	10/25/2022	16:18	22.29	5.40	471.48	7.03	0.16	247.8
MW-16	10/25/2022	13:50	20.92	4.56	43.66	6.60	0.50	263.1
MW-20A	10/26/2022	8:06	22.30	6.79	997.54	10.4	0.49	-102.2

Notes:

1. Well locations are shown on Figure 2.
2. Samples collected in April and October 2022 analyzed by GSI Environmental Inc., Houston, Texas using a YSI ProPlus and Aqua Troll 600, and Hanna HI 98703 turbidity instruments.
3. Well MW-13A replaced with MW-13A-R October 2022
4. > = greater than
   °C = Degrees Celsius
   mg/L = Milligrams/liter
   mV = Millivolts
   NTU = Nephelometric Turbidity Unit
   ORP = Oxidation reducation potential
   µmhoS/cm = Micromhos/centimeter

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TABLE 4
GROUNDWATER ELEVATION MEASUREMENTS
April and October 2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Total Boring Depth (ft bgs)	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)		Water Level Elevation (ft msl)		Measured Total Depth (ft btoc)
			April 2022 (Note 2)	October 2022 (Note 3)	April 2022	October 2022	2021 & 2022 (Notes 3 & 5)
Observation Wells							
OW-02	24	807.69	8.46	16.49	799.23	791.20	37.11
OW-03	24	805.25	10.71	18.92	794.54	786.33	26.77
OW-04	27	798.57	10.55	20.70	788.02	777.87	32.33
OW-06A	43	791.60	36.37	42.65	755.23	748.95	52.15
OW-08A	22	749.16	8.85	16.57	740.31	732.59	25.31
OW-10	40	736.87	9.80	15.04	727.07	721.83	37.82
OW-15	40	766.90	7.94	14.44	758.96	752.46	45.03
OW-16A	30	779.74	10.90	17.79	768.84	761.95	35.25
OW-19	33	748.72	8.66	10.27	740.06	738.45	27.12
OW-21A	35	744.46	12.49	15.05	731.97	729.41	38.01
OW-22	35	745.57	12.50	14.98	733.07	730.59	39.44
OW-24	29	738.67	8.40	9.37	730.27	729.30	30.34
West End Landfill Wells							
WEL-01	33	778.75	4.84	24.11	773.91	754.64	34.50
WEL-04	51	765.94	26.08	30.46	739.86	735.48	51.05
Monitoring Wells							
MW-01B	63	881.59	27.30	39.99	854.29	841.60	63.68
MW-08	27	746.80	8.13	13.20	738.67	733.60	30.65
MW-09A	33	751.02	15.88	23.82	735.14	727.20	36.22
MW-11A	114	784.13	81.45	95.35	702.68	688.78	112.36
MW-12A	112	785.69	92.34	97.53	693.35	688.16	115.22
MW-13A	110	782.01	89.04	P&A	692.97	P&A	115.09
MW-13A-R	112	782.15	--	95.15	--	687.00	114.62
MW-14	28	751.30	9.60	14.56	741.70	736.74	26.65
MW-15	25	756.19	11.47	12.69	744.72	743.50	NM
MW-16	68	755.70	25.48	27.86	730.22	727.84	70.82
MW-20A	24	752.90	8.51	10.45	744.39	742.45	25.71

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TABLE 4
GROUNDWATER ELEVATION MEASUREMENTS
April and October 2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Total Boring Depth (ft bgs)	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)		Water Level Elevation (ft msl)		Measured Total Depth (ft btoc)
			April 2022 (Note 2)	October 2022 (Note 3)	April 2022	October 2022	2021 & 2022 (Notes 3 & 5)
SSSMA Wells							
NW-1	54	827.40	26.95	28.12	800.45	799.28	43.13
SW-1	52	902.95	14.56	25.49	888.39	877.46	54.77
Other Wells							
DW-01	96	753.88	NM	NM	NM	NM	NM
CMW-1	28.5	720.40	6.99	14.02	713.41	706.38	31.16
CMW-2	22.5	716.69	10.28	11.94	706.41	704.75	25.26
CMW-3	27.0	710.22	11.39	18.86	698.83	691.36	30.40
East SSSMA	15.0	829.70	8.89	13.26	820.81	816.44	16.72
West SSSMA	15.3	827.90	11.87	17.72	816.03	810.18	16.41
T Wells							
T-01	45	732.72	29.32	35.65	703.40	697.07	41.15
T-02	44	751.13	17.04	20.64	734.09	730.49	46.36
T-03	25	746.13	10.13	16.25	736.00	729.88	24.50
T-04	25	743.28	9.19	11.72	734.09	731.56	26.31
T-06	150	761.96	78.71	82.22	683.25	679.74	130.57
T-09	37	745.46	12.45	18.86	733.01	726.60	39.79
T-10	35	740.20	15.11	19.45	725.09	720.75	39.19
T-18	28	762.78	4.29	4.49	758.49	758.29	26.61
T-19	39	758.51	16.15	20.58	742.36	737.93	41.99
T-20	40	731.53	4.25	9.80	727.28	721.73	37.45
RFI Observation Wells							
OWR-01S	35	738.89	10.90	16.31	727.99	722.58	36.98
OWR-02S	35	757.46	6.86	10.72	750.60	746.74	38.18
OWR-03S	35	760.48	9.56	10.49	750.92	749.99	37.27
OWR-09S	50	753.16	30.96	42.89	722.20	710.27	52.54
OWR-10	49	769.95	14.38	23.65	755.57	746.30	51.95
OWR-11	35	744.26	9.52	11.07	734.74	733.19	37.45
OWR-12	37	763.20	15.76	17.45	747.44	745.75	39.91
OWR-13	36	769.45	16.50	25.27	752.95	744.18	38.92

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TABLE 4
GROUNDWATER ELEVATION MEASUREMENTS
April and October 2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Total Boring Depth (ft bgs)	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)		Water Level Elevation (ft msl)		Measured Total Depth (ft btoc)
			April 2022 (Note 2)	October 2022 (Note 3)	April 2022	October 2022	2021 & 2022 (Notes 3 & 5)
RFI Observation Wells (continued)							
OWR-14D	81	782.11	67.45	73.00	714.66	709.11	82.25
OWR-15D	64	781.44	13.15	19.70	768.29	761.74	66.99
Interceptor Wells							
IW-01	26	821.18	1.90	4.10	819.28	817.08	28.08
IW-02	25	815.27	22.07	21.95	793.20	793.32	27.00
IW-03	25	810.59	9.30	19.10	801.29	791.49	28.21
IW-04	25	799.88	2.00	15.54	797.88	784.34	25.81
IW-05	68	805.46	54.95	55.61	750.51	749.85	70.81
IW-06	68	803.84	48.18	51.42	755.66	752.42	69.11
IW-07	40	794.63	27.18	35.74	767.45	758.89	42.18
IW-08	39.5	798.02	32.56	35.60	765.46	762.42	40.22
IW-09	50	801.03	46.32	Dry	754.71	Dry	49.02
IW-10	68	801.93	54.82	55.14	747.11	746.79	67.11
IW-11	68	804.62	59.72	59.60	744.90	745.02	70.37
IW-12	50	797.86	43.51	43.22	754.35	754.64	52.14
IW-13	50	795.74	21.11	36.76	774.63	758.98	51.21
IW-14A	49.4	746.70	43.95	Dry	702.75	Dry	44.65
IW-15	45	756.73	7.30	9.99	749.43	746.74	38.12
IW-16	50	746.82	37.30	13.09	709.52	733.73	45.20
IW-17	50	746.65	44.56	43.44	702.09	703.21	49.56
IW-18	50	748.63	34.19	26.65	714.44	721.98	47.89
IW-19	50	749.31	36.39	30.91	712.92	718.40	48.31
IW-20	50	750.70	33.11	31.51	717.59	719.19	49.29
IW-21	50	752.45	44.75	33.75	707.70	718.70	53.76
IW-22	39.9	743.23	30.13	30.72	713.10	712.51	36.42
IW-23	50	745.20	39.20	11.66	706.00	733.54	46.49
IW-24	40	745.86	3.20	29.60	742.66	716.26	36.14
IW-25	40	751.96	31.75	30.82	720.21	721.14	36.62

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TABLE 4
GROUNDWATER ELEVATION MEASUREMENTS
April and October 2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Total Boring Depth (ft bgs)	Top of Casing Elevation (ft msl)	Depth to Water (ft btoc)		Water Level Elevation (ft msl)		Measured Total Depth (ft btoc)
			April 2022 (Note 2)	October 2022 (Note 3)	April 2022	October 2022	2021 & 2022 (Notes 3 & 5)
Interceptor Wells (Continued)							
IW-26	35	731.90	NM	NM	NM	NM	28.53
IW-27	35	731.90	NM	NM	NM	NM	29.19
IW-28	38	726.70	NM	NM	NM	NM	40.92
IW-29	38	726.70	NM	NM	NM	NM	40.23

Notes:
1. Well locations are shown on Figure 2.
2. April 2022 depths to water measured on 04 April 2022.
3. October 2022 depths to water and total depths for dry wells measured on 24 October 2022.
4. ft bgs = Feet below ground surface
   ft btoc = Feet below top of casing
   ft msl = Feet above mean sea level
   NM = Not Measured
   P&A = Plugged and Abandoned prior to Oct. 2022, so depth to water and total depth were not measured.
   -- = Well MW-13A-R was installed after the April sampling event, so no measurement was possible.
5. Total depth (TD) was last measured in all wells in October 2021. TD is also measured in each sampled well following sample collection in each event. TD measurements represent the most recent measurement in each well from October 2021, April 2022 or October 2022.

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TABLE 5
RESULTS OF GROUNDWATER TESTING: DETECTED ANALYTES
April and October 2022 Sampling

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

						RCRA Background Well		***RCRA Groundwater Detection Monitoring***			
Matrix:		**RCRA Concentration Limits**	**CERCLA Remediation Goals**	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				EFFLUENT	EFFLUENT	MW-01B	MW-01B	MW-11A	MW-11A	MW-12A	MW-12A
Sample Date:				4/11/2022	10/22/2022	4/8/2022	10/25/2022	4/5/2022	10/26/2022	4/10/2022	10/25/2022
Filtered:				No	No	No	No	No	No	No	No
Sample Type:				N	N	N	N	N	N	N	N
Sample ID:				Purge water	Purge water	MW-01B	MW-01B	MW-11A	MW-11A	MW-12A	MW-12A
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs By Methods 8260B and 8260D											
1,2,4-Trichlorobenzene	120-82-1	**--**	**70**	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	**--**	-	-	<1	<1	-	-	-	-
Trichloroethylene	79-01-6	**--**	**5**	-	-	-	-	-	-	-	-
SVOCs By Methods 8270D, 8270D LL, and 8270D SIM											
1,2-Dichlorobenzene	95-50-1	**612**	**--**	-	-	<10	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	-	-	<25	<25 J	<25 J	<25	<25	<25 J
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	-	<10	<10 J	<10 J	<10	21	<10 J
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific By Method 8081B/8082A											
Aroclor 1221	11104-28-2	**--**	**--**	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	**--**	**--**	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	**--**	**--**	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	**--**	**--**	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific By Method 680											
Dichlorobiphenyl	25512-42-9	**--**	**--**	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	**--**	**--**	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	**--**	**--**	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	**--**	**--**	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	**--**	**--**	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	**--**	**--**	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-
Pesticides By Method 8141B											
Trichlorobiphenyl	25323-68-6	**--**	**--**	-	-	-	-	-	-	-	-
Parathion	56-38-2	**75**	**85**	-	-	<1	<1 J	<1	<1 J	<1	<1 J
Metals By Methods 6010C, 6010D, and 7470A											
Cobalt	7440-48-4	**694**	**73**	-	-	<10	<10	-	-	-	-
Manganese	7439-96-5	**--**	**880**	-	-	-	-	-	-	-	-
Mercury	7439-97-6	**2**	**2**	-	-	<0.2	-	-	-	-	-

Notes:

1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.

2. 1,2,4-Trichlorobenzene in well OW-16A and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.

3. J = Estimated concentration;
-- = not applicable;
- = not analyzed.

Dup = Duplicate sample
N = Original sample
PCBs = Polychlorinated biphenyls
SVOCs = Semi-volatile organic compound
VOCs = Volatile organic compound
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
RCRA = Resource Conservation and Recovery Act

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TABLE 5
RESULTS OF GROUNDWATER TESTING: DETECTED ANALYTES
April and October 2022 Sampling

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Groundwater Detection Monitoring					
Matrix:		**RCRA Concentration Limits**	**CERCLA Remediation Goals**	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-13A	MW-13A-R	MW-13A-R	MW-08	MW-09A	MW-14
Sample Date:				4/5/2022	10/26/2022	10/26/2022	4/10/2022	4/10/2022	4/10/2022
Filtered:				No	No	Yes	No	No	No
Sample Type:				N	N	N	N	N	N
Sample ID:				MW-13A	MW-13A-R	MW-13A-RF	MW-08	MW-09A	MW-14
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs By Methods 8260B and 8260D									
1,2,4-Trichlorobenzene	120-82-1	**--**	**70**	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	**--**	-	-	-	<1	<1	<1
Trichloroethylene	79-01-6	**--**	**5**	-	-	-	-	-	-
SVOCs By Methods 8270D, 8270D LL, and 8270D SIM									
1,2-Dichlorobenzene	95-50-1	**612**	**--**	-	-	-	<10	<10	<10
4-Nitrophenol	100-02-7	**128**	**125**	<25	<25	-	<25	<25	<25
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	<10	<10	-	<10	<10	<10
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-
PCBs, Aroclor Specific By Method 8081B/8082A									
Aroclor 1221	11104-28-2	**--**	**--**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	**--**	**--**	0.7	0.57	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	**--**	**--**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	**--**	**--**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	0.7	0.57	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific By Method 680									
Dichlorobiphenyl	25512-42-9	**--**	**--**	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	**--**	**--**	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	**--**	**--**	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	**--**	**--**	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	**--**	**--**	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	**--**	**--**	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-
Pesticides By Method 8141B									
Trichlorobiphenyl	25323-68-6	**--**	**--**	-	-	-	-	-	-
Parathion	56-38-2	**75**	**85**	<1	<1	-	<1	<1	<1
Metals By Methods 6010C, 6010D, and 7470A									
Cobalt	7440-48-4	**694**	**73**	-	-	-	<10	<10	<10
Manganese	7439-96-5	**--**	**880**	-	-	-	-	-	27
Mercury	7439-97-6	**2**	**2**	-	-	-	<0.2	<0.2	<0.2

Notes:

1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.

2. 1,2,4-Trichlorobenzene in well OW-16A and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.

3. J = Estimated concentration;
-- = not applicable;
- = not analyzed.

Dup = Duplicate sample
N = Original sample
PCBs = Polychlorinated biphenyls
SVOCs = Semi-volatile organic compound

VOCs = Volatile organic compound
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
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TABLE 5
RESULTS OF GROUNDWATER TESTING: DETECTED ANALYTES
April and October 2022 Sampling

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Groundwater Detection Monitoring					
Matrix:		**RCRA Concentration Limits**	**CERCLA Remediation Goals**	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-15	MW-15	MW-15	MW-16	MW-16	MW-16
Sample Date:				4/8/2022	4/8/2022	10/25/2022	4/8/2022	4/8/2022	10/25/2022
Filtered:				No	Yes	No	No	Yes	No
Sample Type:				N	N	N	N	N	N
Sample ID:				MW-15	MW-15F	MW-15	MW-16	MW-16F	MW-16
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs By Methods 8260B and 8260D									
1,2,4-Trichlorobenzene	120-82-1	**--**	**70**	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	**--**	<1	-	<1	<1	-	<1
Trichloroethylene	79-01-6	**--**	**5**	-	-	-	-	-	-
SVOCs By Methods 8270D, 8270D LL, and 8270D SIM									
1,2-Dichlorobenzene	95-50-1	**612**	**--**	<10	-	-	<10	-	-
4-Nitrophenol	100-02-7	**128**	**125**	<25	-	<25 J	87	-	25 J
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	<10	-	<10 J	47	-	49 J
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-
PCBs, Aroclor Specific By Method 8081B/8082A									
Aroclor 1221	11104-28-2	**--**	**--**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	**--**	**--**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	**--**	**--**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	**--**	**--**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific By Method 680									
Dichlorobiphenyl	25512-42-9	**--**	**--**	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	**--**	**--**	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	**--**	**--**	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	**--**	**--**	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	**--**	**--**	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	**--**	**--**	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-
Pesticides By Method 8141B									
Trichlorobiphenyl	25323-68-6	**--**	**--**	-	-	-	-	-	-
Parathion	56-38-2	**75**	**85**	<1	-	<1 J	<1	-	<1 J
Metals By Methods 6010C, 6010D, and 7470A									
Cobalt	7440-48-4	**694**	**73**	<10	<10	<10	<10	<10	<10
Manganese	7439-96-5	**--**	**880**	-	-	-	-	-	-
Mercury	7439-97-6	**2**	**2**	<0.2	<0.2	-	1.2	<0.2	-

Notes:

1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.

2. 1,2,4-Trichlorobenzene in well OW-16A and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.

3. J = Estimated concentration;
-- = not applicable;
- = not analyzed.

Dup = Duplicate sample
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TABLE 5
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April and October 2022 Sampling

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Groundwater Detection Monitoring							
Matrix:		**RCRA Concentration Limits**	**CERCLA Remediation Goals**	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	OW-06A	OW-08A	OW-08A
Sample Date:				4/5/2022	4/5/2022	4/5/2022	10/26/2022	10/26/2022	4/8/2022	4/5/2022	4/5/2022
Filtered:				No	Yes	No	No	No	No	No	Yes
Sample Type:				N	N	Dup	N	Dup	N	N	N
Sample ID:				MW-20A	MW-20AF	Field Duplicate 1	MW-20A	DUPLICATE	OW-06A	OW-08A	OW-08AF
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs By Methods 8260B and 8260D											
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	<1	-	<1	1.4	1.8	<1	<1	-
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-
SVOCs By Methods 8270D, 8270D LL, and 8270D SIM											
1,2-Dichlorobenzene	95-50-1	**612**	--	<10	-	<10	-	-	<10	<1	-
4-Nitrophenol	100-02-7	**128**	**125**	<25	-	<25	<25	<25	<25	<25	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	42	-	34	39	45	<10	<1	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	3.7	-	3.7	-	-	-	-	-
PCBs, Aroclor Specific By Method 8081B/8082A											
Aroclor 1221	11104-28-2	--	--	<0.5 J	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5 J	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	3.2	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5 J	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	1.9	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5 J	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	0.58	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5 J	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	5.68	<0.5
PCBs, Homolog Specific By Method 680											
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-
Pesticides By Method 8141B											
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-
Parathion	56-38-2	**75**	**85**	<1	-	<1	<1	<1 J	<1	<1	-
Metals By Methods 6010C, 6010D, and 7470A											
Cobalt	7440-48-4	**694**	**73**	<10	-	<10	<10	<10	<10	<10	<10
Manganese	7439-96-5	--	**880**	-	-	-	-	-	-	<10	<10
Mercury	7439-97-6	**2**	**2**	<0.2 J	-	<0.2 J	-	-	<0.2	<0.2	<0.2

Notes:

1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.

2. 1,2,4-Trichlorobenzene in well OW-16A and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.

3. J = Estimated concentration;
-- = not applicable;
- = not analyzed.

Dup = Duplicate sample
N = Original sample
PCBs = Polychlorinated biphenyls
SVOCs = Semi-volatile organic compound
VOCs = Volatile organic compound
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
RCRA = Resource Conservation and Recovery Act

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TABLE 5
RESULTS OF GROUNDWATER TESTING: DETECTED ANALYTES
April and October 2022 Sampling

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Groundwater Detection Monitoring							
Matrix:		**RCRA Concentration Limits**	**CERCLA Remediation Goals**	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OW-15	OW-15	OW-16A	OW-16A	OW-21A	OW-21A	OW-22	OW-22
Sample Date:				4/5/2022	4/5/2022	4/5/2022	4/5/2022	4/10/2022	4/10/2022	4/10/2022	4/10/2022
Filtered:				No	Yes	No	Yes	No	Yes	No	Yes
Sample Type:				N	N	N	N	N	N	N	N
Sample ID:				OW-15	OW-15F	OW-16A	OW-16AF	OW-21A	OW-21AF	OW-22	OW-22F
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs By Methods 8260B and 8260D											
1,2,4-Trichlorobenzene	120-82-1	**--**	**70**	-	-	550	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	**--**	<1	-	<1	-	8.8 J	-	<1	-
Trichloroethylene	79-01-6	**--**	**5**	-	-	-	-	-	-	-	-
SVOCs By Methods 8270D, 8270D LL, and 8270D SIM											
1,2-Dichlorobenzene	95-50-1	**612**	**--**	<10	-	<10	-	15	-	<10	-
4-Nitrophenol	100-02-7	**128**	**125**	<25	-	<25	-	9800	-	<25	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	<10	-	<10	-	150	-	<10	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific By Method 8081B/8082A											
Aroclor 1221	11104-28-2	**--**	**--**	<0.5	<0.5 J	56 J	<0.5	12	<0.5	<0.5	<0.5 J
Aroclor 1248	12672-29-6	**--**	**--**	<0.5	<0.5 J	<0.5	<0.5	19	<0.5	0.84	<0.5 J
Aroclor 1254	11097-69-1	**--**	**--**	<0.5	<0.5 J	13 J	<0.5	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1260	11096-82-5	**--**	**--**	<0.5	<0.5 J	<0.5	<0.5	0.88	<0.5	<0.5	<0.5 J
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5	<0.5 J	69 J	<0.5	31.88	<0.5	0.84	<0.5 J
PCBs, Homolog Specific By Method 680											
Dichlorobiphenyl	25512-42-9	**--**	**--**	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	**--**	**--**	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	**--**	**--**	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	**--**	**--**	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	**--**	**--**	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	**--**	**--**	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-
Pesticides By Method 8141B											
Trichlorobiphenyl	25323-68-6	**--**	**--**	-	-	-	-	-	-	-	-
Parathion	56-38-2	**75**	**85**	<1	-	14	-	280	-	<1	-
Metals By Methods 6010C, 6010D, and 7470A											
Cobalt	7440-48-4	**694**	**73**	<10	<10	42	42	37	32	<10	<10
Manganese	7439-96-5	**--**	**880**	-	-	870	860	900	800	-	-
Mercury	7439-97-6	**2**	**2**	<0.2	<0.2	<0.8	<0.2	<0.2	<0.2	<0.2	<0.2

Notes:

1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.

2. 1,2,4-Trichlorobenzene in well OW-16A and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.

3. J = Estimated concentration;
-- = not applicable;
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Dup = Duplicate sample
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PCBs = Polychlorinated biphenyls
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TABLE 5
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April and October 2022 Sampling

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action						
Matrix:		**RCRA Concentration Limits**	**CERCLA Remediation Goals**	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OW-10	OW-10	OW-10	OW-10	OWR-03S	OWR-11	OWR-11
Sample Date:				4/11/2022	4/11/2022	4/11/2022	4/11/2022	4/6/2022	4/7/2022	4/7/2022
Filtered:				No	Yes	No	Yes	No	No	Yes
Sample Type:				N	N	Dup	Dup	N	N	N
Sample ID:				OW-10	OW-10F	Field Duplicate 4	Field Duplicate 4F	OWR-3S	OWR-11	OWR-11F
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs By Methods 8260B and 8260D										
1,2,4-Trichlorobenzene	120-82-1	**--**	**70**	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	**--**	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	**--**	**5**	3.7	-	3.6	-	-	-	-
SVOCs By Methods 8270D, 8270D LL, and 8270D SIM										
1,2-Dichlorobenzene	95-50-1	**612**	**--**	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-
PCBs, Aroclor Specific By Method 8081B/8082A										
Aroclor 1221	11104-28-2	**--**	**--**	<0.5 J	<0.5	<0.5 J	<0.5	<0.5	170	9.6
Aroclor 1248	12672-29-6	**--**	**--**	1.7 J	<0.5	1.9 J	<0.5	<0.5	70	<0.5
Aroclor 1254	11097-69-1	**--**	**--**	<0.5 J	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	**--**	**--**	<0.5 J	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	1.7 J	<0.5	1.9 J	<0.5	<0.5	240	9.6
PCBs, Homolog Specific By Method 680										
Dichlorobiphenyl	25512-42-9	**--**	**--**	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	**--**	**--**	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	**--**	**--**	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	**--**	**--**	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	**--**	**--**	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	**--**	**--**	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-
Pesticides By Method 8141B										
Trichlorobiphenyl	25323-68-6	**--**	**--**	-	-	-	-	-	-	-
Parathion	56-38-2	**75**	**85**	-	-	-	-	-	-	-
Metals By Methods 6010C, 6010D, and 7470A										
Cobalt	7440-48-4	**694**	**73**	-	-	-	-	-	140	140
Manganese	7439-96-5	**--**	**880**	1100	1100	1100	1000	-	2600	2700
Mercury	7439-97-6	**2**	**2**	12 J	13 J	2.3 J	2.2 J	-	-	-

Notes:

1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.

2. 1,2,4-Trichlorobenzene in well OW-16A and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.

3. J = Estimated concentration;
-- = not applicable;
- = not analyzed.

Dup = Duplicate sample
N = Original sample
PCBs = Polychlorinated biphenyls
SVOCs = Semi-volatile organic compound
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TABLE 5
RESULTS OF GROUNDWATER TESTING: DETECTED ANALYTES
April and October 2022 Sampling

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action							
Matrix:		**RCRA Concentration Limits**	**CERCLA Remediation Goals**	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OWR-13	OWR-13	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-15D	OWR-15D
Sample Date:				4/7/2022	4/7/2022	4/6/2022	4/6/2022	4/6/2022	4/6/2022	4/11/2022	4/11/2022
Filtered:				No	Yes	No	Yes	No	Yes	No	Yes
Sample Type:				N	N	N	N	Dup	Dup	N	N
Sample ID:				OWR-13	OWR-13F	OWR-14D	OWR-14DF	Field Duplicate 2	Field Duplicate 2F	OWR-15D	OWR-15DF
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs By Methods 8260B and 8260D											
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-
SVOCs By Methods 8270D, 8270D LL, and 8270D SIM											
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific By Method 8081B/8082A											
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	51	<0.5
Aroclor 1248	12672-29-6	--	--	5.3	<0.5	2.1 J	<0.5	3.5 J	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	5.9	<0.5	<0.5 J	<0.5	<0.5	<0.5	0.84	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	11.2	<0.5	2.1 J	<0.5	3.5 J	<0.5	51.84	<0.5
PCBs, Homolog Specific By Method 680											
Dichlorobiphenyl	25512-42-9	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
Hexachlorobiphenyl	26601-64-9	--	--	0.39	<0.2	<0.2	<0.2	<0.2	<0.2	-	-
Monochlorobiphenyl	27323-18-8	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
Pentachlorobiphenyl	25429-29-2	--	--	2.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	3.1	0.24	0.23	<0.2	0.31	<0.2	-	-
Trichlorobiphenyl	25323-68-6	--	--	0.16	<0.1	<0.1 J	<0.1	0.15 J	0.15 J	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	5.85	0.24	0.23	<0.5	0.46 J	<0.5	-	-
Pesticides By Method 8141B											
Trichlorobiphenyl	25323-68-6	--	--	0.16	<0.1	<0.1 J	<0.1	0.15	<0.1 J	-	-
Parathion	56-38-2	**75**	**85**	-	-	-	-	-	-	-	-
Metals By Methods 6010C, 6010D, and 7470A											
Cobalt	7440-48-4	**694**	**73**	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	**880**	-	-	<10	<10	<10	<10	-	-
Mercury	7439-97-6	**2**	**2**	-	-	-	-	-	-	-	-

Notes:

1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.

2. 1,2,4-Trichlorobenzene in well OW-16A and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.

3. J = Estimated concentration;
-- = not applicable;
- = not analyzed.

Dup = Duplicate sample
N = Original sample
PCBs = Polychlorinated biphenyls
SVOCs = Semi-volatile organic compound
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TABLE 5
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April and October 2022 Sampling

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action							
Matrix:		**RCRA Concentration Limits**	**CERCLA Remediation Goals**	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				T-04	T-04	T-06	T-06	T-09	T-09	T-09	T-10
Sample Date:				4/10/2022	4/10/2022	4/6/2022	4/6/2022	4/7/2022	4/7/2022	4/7/2022	4/7/2022
Filtered:				No	Yes	No	Yes	No	Yes	No	No
Sample Type:				N	N	N	N	N	N	Dup	N
Sample ID:				T-04	T-04F	T-06	T-06F	T-09	T-09F	Field Duplicate 3	T-10
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs By Methods 8260B and 8260D											
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-
SVOCs By Methods 8270D, 8270D LL, and 8270D SIM											
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	-	-	-	-	<25	-	<25	<25
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific By Method 8081B/8082A											
Aroclor 1221	11104-28-2	--	--	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	59	<0.5	<0.5	<0.5	3.7	<0.5	4	<0.5
Aroclor 1254	11097-69-1	--	--	16	<0.5	<0.5	<0.5	0.89	<0.5	0.98	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	76.2	<0.5	<0.5	<0.5	4.59	<0.5	4.98	<0.5
PCBs, Homolog Specific By Method 680											
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-
Pesticides By Method 8141B											
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-
Parathion	56-38-2	**75**	**85**	-	-	-	-	<1	-	<1	<1
Metals By Methods 6010C, 6010D, and 7470A											
Cobalt	7440-48-4	**694**	**73**	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	**880**	160	140	-	-	-	-	-	-
Mercury	7439-97-6	**2**	**2**	-	-	-	-	-	-	-	-

Notes:

1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.

2. 1,2,4-Trichlorobenzene in well OW-16A and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.

3. J = Estimated concentration;
-- = not applicable;
- = not analyzed.

Dup = Duplicate sample
N = Original sample
PCBs = Polychlorinated biphenyls
SVOCs = Semi-volatile organic compound

VOCs = Volatile organic compound
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
RCRA = Resource Conservation and Recovery Act

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TABLE 5
RESULTS OF GROUNDWATER TESTING: DETECTED ANALYTES
April and October 2022 Sampling

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action							
Matrix:		**RCRA Concentration Limits**	**CERCLA Remediation Goals**	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				T-18	T-18	T-20	T-20	WEL-01	WEL-01	WEL-04	WEL-04
Sample Date:				4/6/2022	4/6/2022	4/7/2022	4/7/2022	4/10/2022	4/10/2022	4/6/2022	4/6/2022
Filtered:				No	Yes	No	Yes	No	Yes	No	Yes
Sample Type:				N	N	N	N	N	N	N	N
Sample ID:				T-18	T-18F	T-20	T-20F	WEL-01	WEL-01F	WEL-04	WEL-04F
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs By Methods 8260B and 8260D											
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-
SVOCs By Methods 8270D, 8270D LL, and 8270D SIM											
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific By Method 8081B/8082A											
Aroclor 1221	11104-28-2	--	--	30 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1248	12672-29-6	--	--	<0.5 J	<0.5	2.1	<0.5	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1254	11097-69-1	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1260	11096-82-5	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	30 J	<0.5	2.1	<0.5	<0.5	<0.5	<0.5	<0.5 J
PCBs, Homolog Specific By Method 680											
Dichlorobiphenyl	25512-42-9	--	--	2.2	3.7	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	<0.2	<0.2	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	6.4	45	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	<0.2	<0.2	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	<0.2	<0.2	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	0.16	0.82	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	8.76	49.52	-	-	-	-	-	-
Pesticides By Method 8141B											
Trichlorobiphenyl	25323-68-6	--	--	0.16	0.82	-	-	-	-	-	-
Parathion	56-38-2	**75**	**85**	-	-	-	-	-	-	-	-
Metals By Methods 6010C, 6010D, and 7470A											
Cobalt	7440-48-4	**694**	**73**	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	**880**	-	-	2200	2100	32	16	73	52
Mercury	7439-97-6	**2**	**2**	-	-	<0.2	-	-	-	-	-

Notes:

1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.

2. 1,2,4-Trichlorobenzene in well OW-16A and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals.

3. J = Estimated concentration;
-- = not applicable;
- = not analyzed.

Dup = Duplicate sample
N = Original sample
PCBs = Polychlorinated biphenyls
SVOCs = Semi-volatile organic compound

VOCs = Volatile organic compound
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
RCRA = Resource Conservation and Recovery Act

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TABLE 6
VOLUMES OF GROUNDWATER RECOVERED DURING 2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Month	WMA II Corrective Action System (note 1; gallons)	Well OW-21A Corrective Action Area (note 2; gallons)	Well OW-10 Corrective Action Area (note 3; gallons)	SWMU 1 Wells (note 4; gallons)
January	61,450	151,258	17,214	99,845
February	56,350	139,013	14,890	94,813
March	60,900	170,495	19,322	118,014
April	54,550	121,097	15,223	102,070
May	51,250	75,356	10,299	48,002
June	50,300	93,075	14,541	53,946
July	32,550	66,618	12,700	47,377
August	42,100	46,749	8,570	23,394
September	43,830	41,966	9,612	22,394
October	31,905	22,370	4,194	13,642
November	36,010	25,772	6,056	18,211
December	28,693	84,515	16,114	66,929
Total (2022)	**549,888**	**1,038,284**	**148,735**	**708,637**

Notes:
1. WMA II (New Limestone Bed) recovered groundwater volume represents flow from wells IW-16 through IW-25 and DW-01.
2. Well OW-21A Corrective Action Area recovered groundwater volume represents flow from wells IW-26 and IW-27.
3. Well OW-10 Corrective Action Area recovered groundwater volume represents flow from wells IW-14A, IW-28, and IW-29.
4. SWMU 1 recovered groundwater volume represents flow from wells IW-02, IW-05 through IW-08, and IW-10 through IW-13.
5. CTS = Carbon Treatment System
   SWMU = Solid Waste Management Unit
   WMA = Waste Management Area

GSI ENVIRONMENTAL

TABLE 7
MONTHLY RAINFALL 2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Month	2018	2019	2020	2021	2022
January	2.01	6.91	10.08	3.95	4.73
February	7.71	10.13	12.53	5.19	7.85
March	5.99	2.45	10.54	6.91	8.89
April	4.26	4.42	7.90	2.98	3.82
May	3.91	2.50	5.63	7.02	7.59
June	4.13	6.35	4.88	11.34	6.93
July	5.76	4.01	3.04	9.35	4.80
August	5.07	1.96	4.33	5.54	3.68
September	4.77	0.44	2.84	3.68	3.83
October	2.04	8.92	5.64	3.08	2.53
November	8.13	4.22	2.13	2.16	5.36
December	11.66	4.48	3.40	6.74	3.74
Total (inches)	**65.44**	**56.79**	**72.94**	**67.94**	**63.75**

Notes:
1. Rainfall data obtained from on-site rain gauge.
2. Monthly rainfall measured in inches.

2022 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia Inc. Anniston, Alabama

RCRA Post-Closure Permit ALD 004 019 048

Consent Decree Docket No. 1:02-ec-0749-KOB

FIGURES

Figure 1. Site Location Map

Figure 2a. Monitoring Well Network: April 2022

Figure 2b. Monitoring Well Network: October 2022

Figure 3. Groundwater Monitoring and Corrective Action Areas

Figure 4. Corrective Action Systems

Figure 5. North-South Cross-Section

Figure 6. West-East Cross-Section

Figure 7a. Potentiometric Surface Map: Shallow Residuum, April 2022

Figure 7b. Potentiometric Surface Map: Shallow Residuum, October 2022

Figure 8. Results of 2022 RCRA Groundwater Detection Monitoring at WMA I

Figure 9. Results of 2022 RCRA Groundwater Corrective Action Monitoring at WMA II and SWMU 1: Volatile Organic Compounds

Figure 10. Results of 2022 RCRA Groundwater Corrective Action Monitoring at WMA II and SWMU I: Semi-Volatile Organic Compounds

Figure 11. Results of 2022 RCRA Groundwater Corrective Action Monitoring at WMA II and SWMU I: PCBs

Figure 12. Results of 2022 RCRA Groundwater Corrective Action Monitoring at WMA II and SWMU I: Pesticides

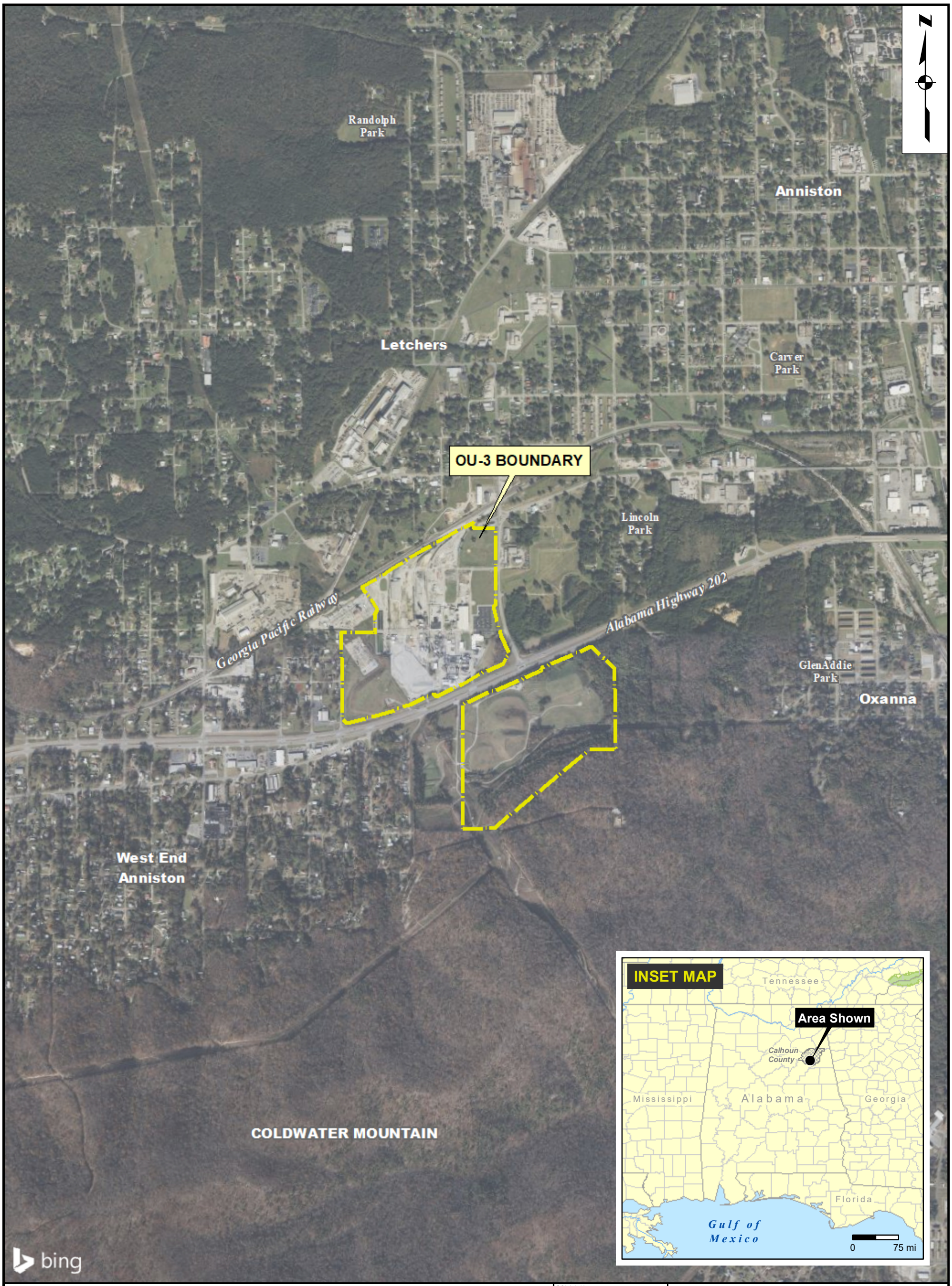
Figure 13. Results of 2022 RCRA Groundwater Corrective Action Monitoring at WMA II and SWMU I: Metals

Figure 14. Results of 2022 CERCLA Performance Verification Testing at OU-3: Volatile Organic Compounds

Figure 15. Results of 2022 CERCLA Performance Verification Testing at OU-3: Pesticides and Semi-Volatile Organic Compounds

Figure 16. Results of 2022 CERCLA Performance Verification Testing at OU-3: PCBs

Figure 17. Results of 2022 CERCLA Performance Verification Testing at OU-3: Metals



LEGEND

Operable Unit 3 (OU-3) boundary

Notes

1. Projected Coordinate System: NAD 1983, UTM Zone 16N (meters).
2. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet

0 600 1,200

GSI Job No.	6495
Issued:	21-Apr-2023
Revised:	
Map ID:	001_01
Drawn By:	CDM
Reviewed By:	WBS
Approved By:	TMM

FIGURE 1

GSI ENVIRONMENTAL

SITE LOCATION MAP

2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama



LEGEND

- Residuum
- Bedrock
- Interceptor
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/ CERCLA Remedial Action

Feet: 0 – 200 – 400

Notes

1. Approximate screened intervals: Residuum: 450 – 870 ft msl; Bedrock: 570 – 700 ft msl; Interceptor: 660 – 810 ft msl.
2. All wells shown are gauged for groundwater elevation on a semi-annual basis. Groundwater samples are collected and analyzed from wells specified in the RCRA Permit and the Remedial Action Performance Verification Plan.
3. Projected Coordinate System: NAD 1983, UTM Zone 16N (meters).
4. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

GSI Job No.	6495
Issued:	21-Apr-2023
Revised:	
Map ID:	001_02
Drawn By:	CDM
Reviewed By:	WBS
Approved By:	TMM

FIGURE 2a

GSI ENVIRONMENTAL

MONITORING WELL NETWORK: APRIL 2022

2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama



LEGEND

- Residuum
- Bedrock
- Interceptor
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/ CERCLA Remedial Action

Feet: 0 – 200 – 400

Notes

1. Approximate screened intervals: Residuum: 450 – 870 ft msl; Bedrock: 570 – 700 ft msl; Interceptor: 660 – 810 ft msl.
2. All wells shown are gauged for groundwater elevation on a semi-annual basis. Groundwater samples are collected and analyzed from wells specified in the RCRA Permit and the Remedial Action Performance Verification Plan.
3. Projected Coordinate System: NAD 1983, UTM Zone 16N (meters).
4. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

GSI Job No.	6495
Issued:	21-Apr-2023
Revised:	
Map ID:	001_02
Drawn By:	CDM
Reviewed By:	WBS
Approved By:	TMM

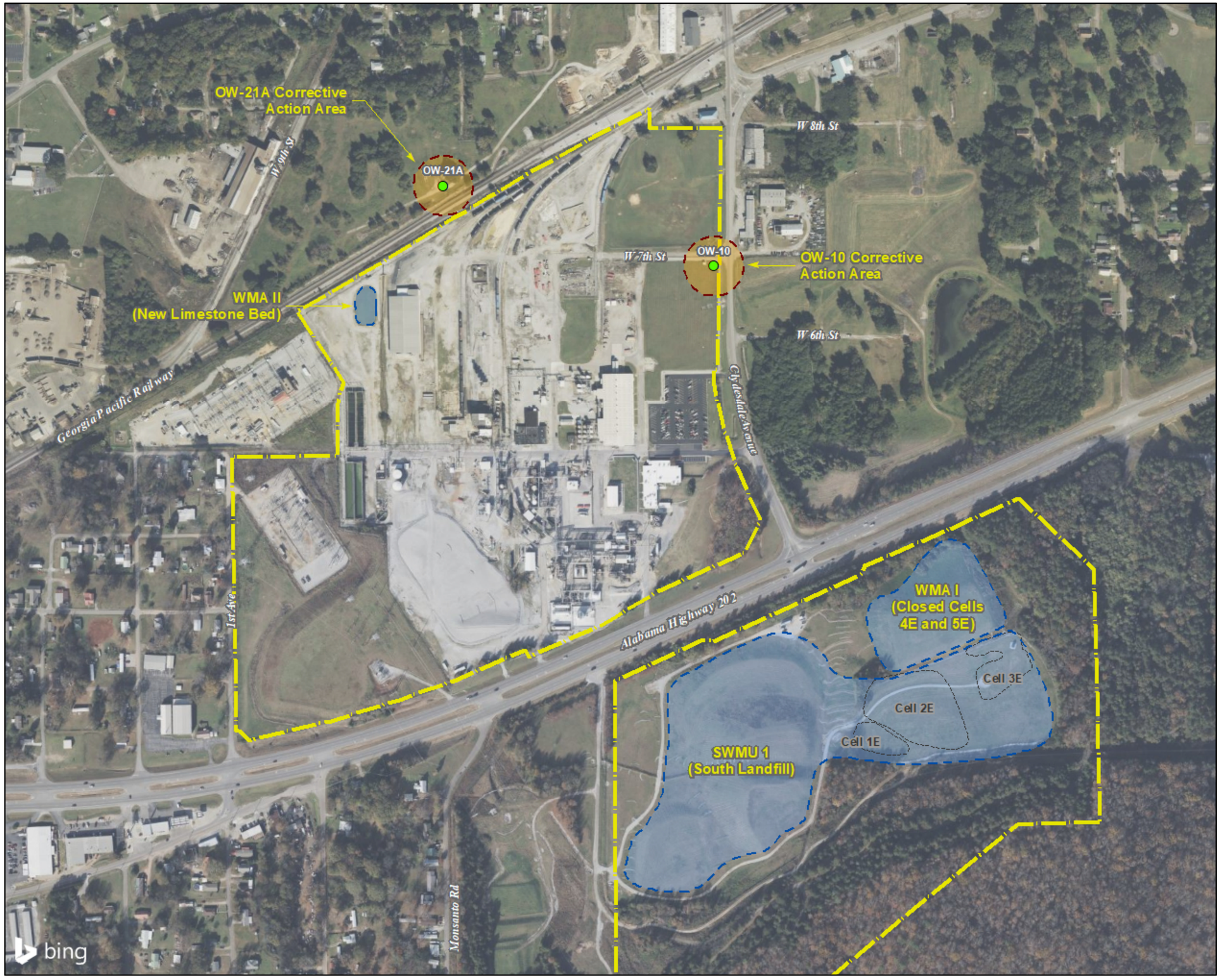
FIGURE 2b

GSI ENVIRONMENTAL

MONITORING WELL NETWORK: OCTOBER 2022

2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama



N

LEGEND

- Residuum well
- Operable Unit 3 (OU-3) boundary
- Unit addressed by RCRA Permit (approximate boundary)
- Area addressed by CERCLA Remedial Action

Notes

1. Approximate locations of site features shown.
2. Note that Table IV.4 of RCRA permit issued 19 July 2019 indicates that SWMU 1 has been referred to EPA.
3. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

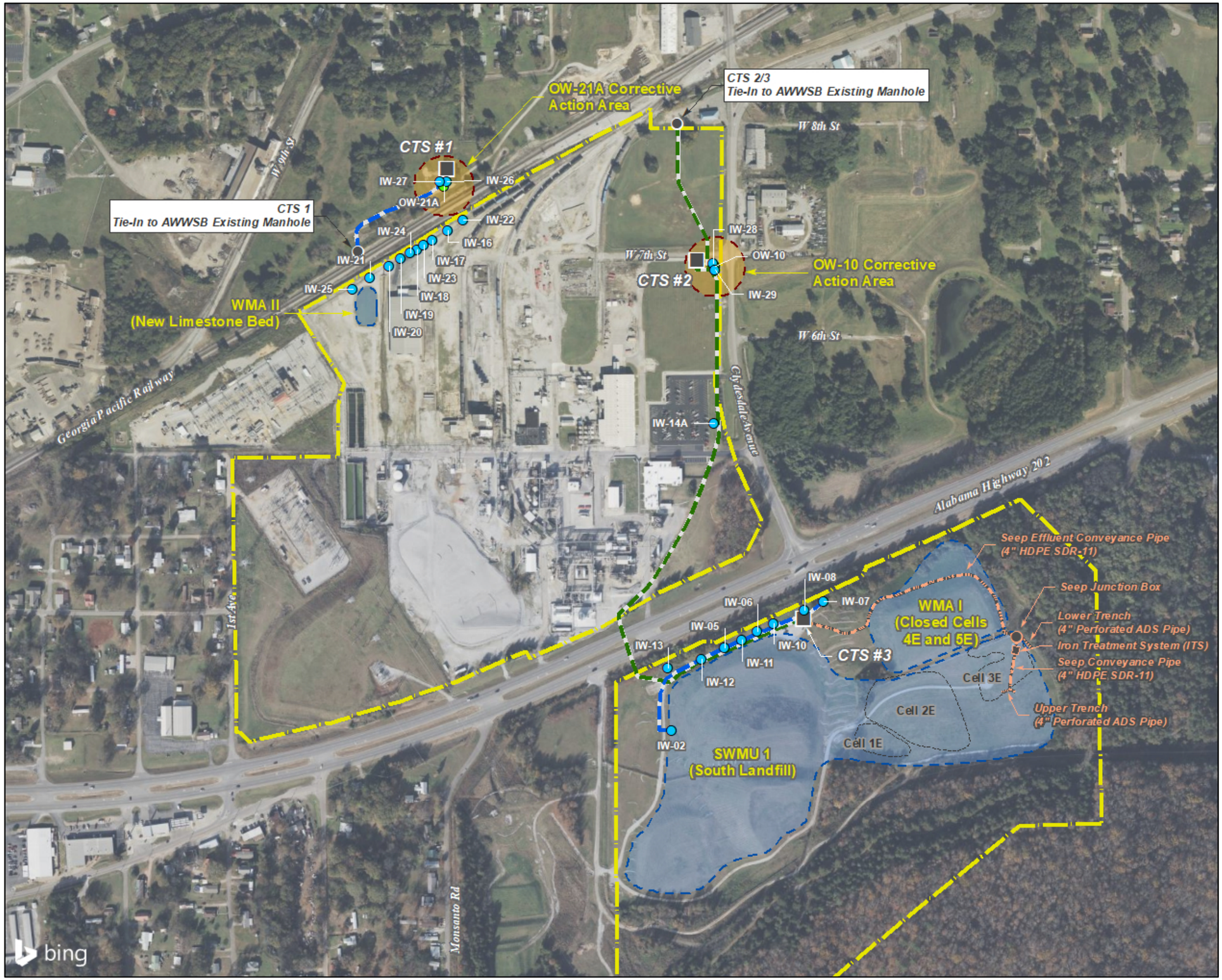
GROUNDWATER MONITORING AND CORRECTIVE ACTION AREAS

2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	6495	Drawn By:	CDM
Issued:	21-Apr-2023	Chk'd By:	WBS
Map ID:	**001_03**	Appv'd By:	TMM

FIGURE 3



N

LEGEND

- Residuum well
- Interceptor well
- 3-inch HDPE SDR-11 Pipe
- 2-inch HDPE SDR-11 Pipe
- Above Grade Piping
- Operable Unit 3 (OU-3) boundary
- Unit addressed by RCRA Permit (approximate boundary)
- Area addressed by CERCLA Remedial Action

Notes

1. Approximate locations of site features shown.
2. Note that Table IV.4 of RCRA permit issued 19 July 2019 indicates that SWMU 1 has been referred to EPA.
3. AWWSB = Anniston Water Works & Sewer Board.
4. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

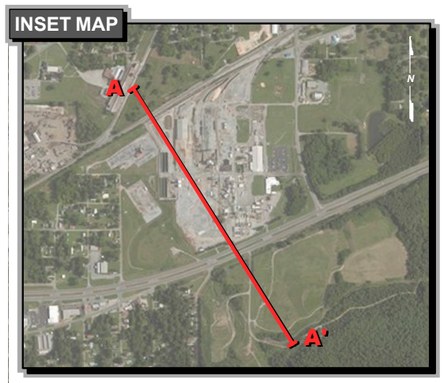
CORRECTIVE ACTION SYSTEMS

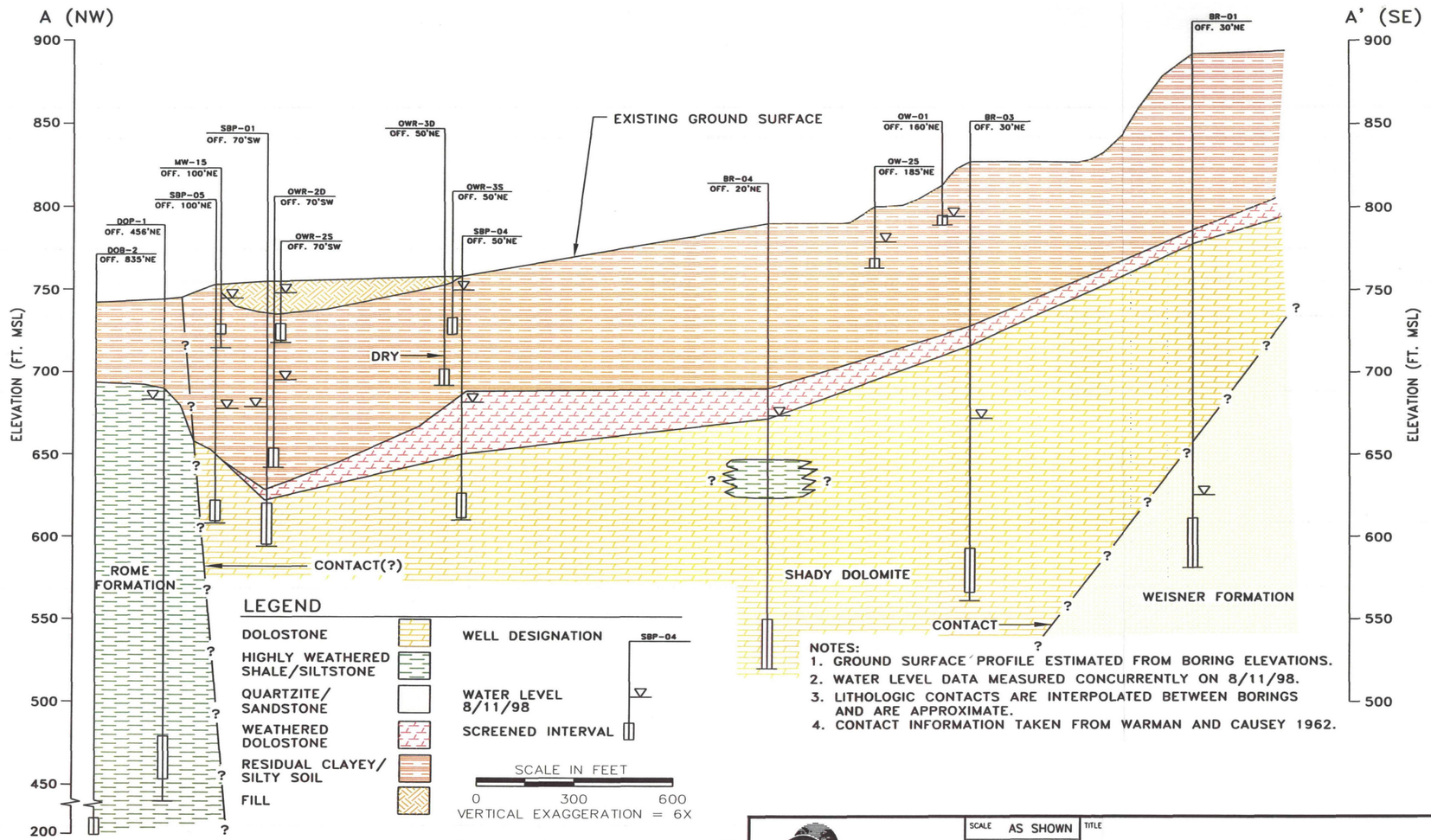
2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	6495	Drawn By:	CDM
Issued:	21-Apr-2023	Chk'd By:	WBS
Map ID:	**001_04**	Appv'd By:	TMM

FIGURE 4





NOTES:
1. GROUND SURFACE PROFILE ESTIMATED FROM BORING ELEVATIONS.
2. WATER LEVEL DATA MEASURED CONCURRENTLY ON 8/11/98.
3. LITHOLOGIC CONTACTS ARE INTERPOLATED BETWEEN BORINGS AND ARE APPROXIMATE.
4. CONTACT INFORMATION TAKEN FROM WARMAN AND CAUSEY 1962.

Golder Associates Jacksonville, Florida	SCALE AS SHOWN	TITLE	HYDROGEOLOGIC CROSS SECTION A-A'
	DATE 07/06/06		
	DESIGN DJM		
	CADD MRM		
FILE No. 9433680C011	CHECK LP 3/13/07		
PROJECT No. 943-3680 REV. 0	REVIEW CRM 3/13/07	SOLUTIA INC.	FIGURE C-4

Source: Solutia, Inc., 2007. "RCRA Part B Post-Closure Permit Application," ALD 004 019 048, Revision 1, Anniston Facility, Alabama, March 2007.

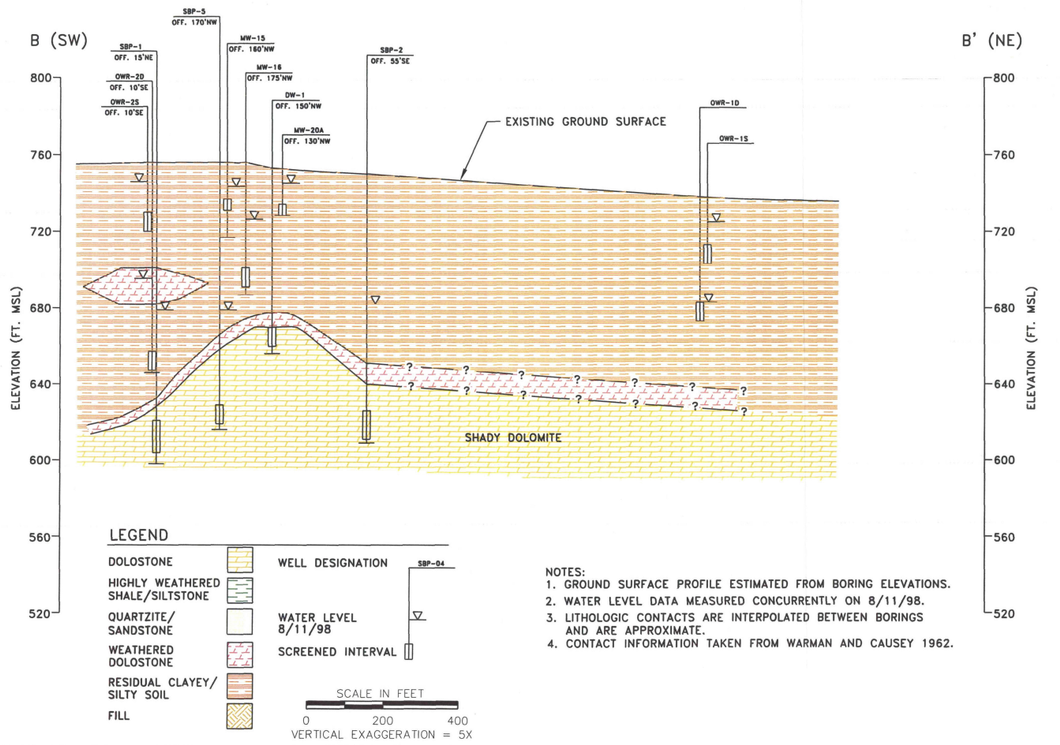
GSI ENVIRONMENTAL	GSI Job No. 6495	Drawn By: CDM	**NORTH-SOUTH CROSS-SECTION**
	Issued: 21-Apr-2023	Chk'd By: WBS	**2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report**
	Scale: As Shown	Aprv'd By: TMM	Solutia Inc.
	Map ID: **001_05**	**FIGURE 5**	Anniston, Alabama

INSET MAP



Inset Scale (ft.)

0 750 1500

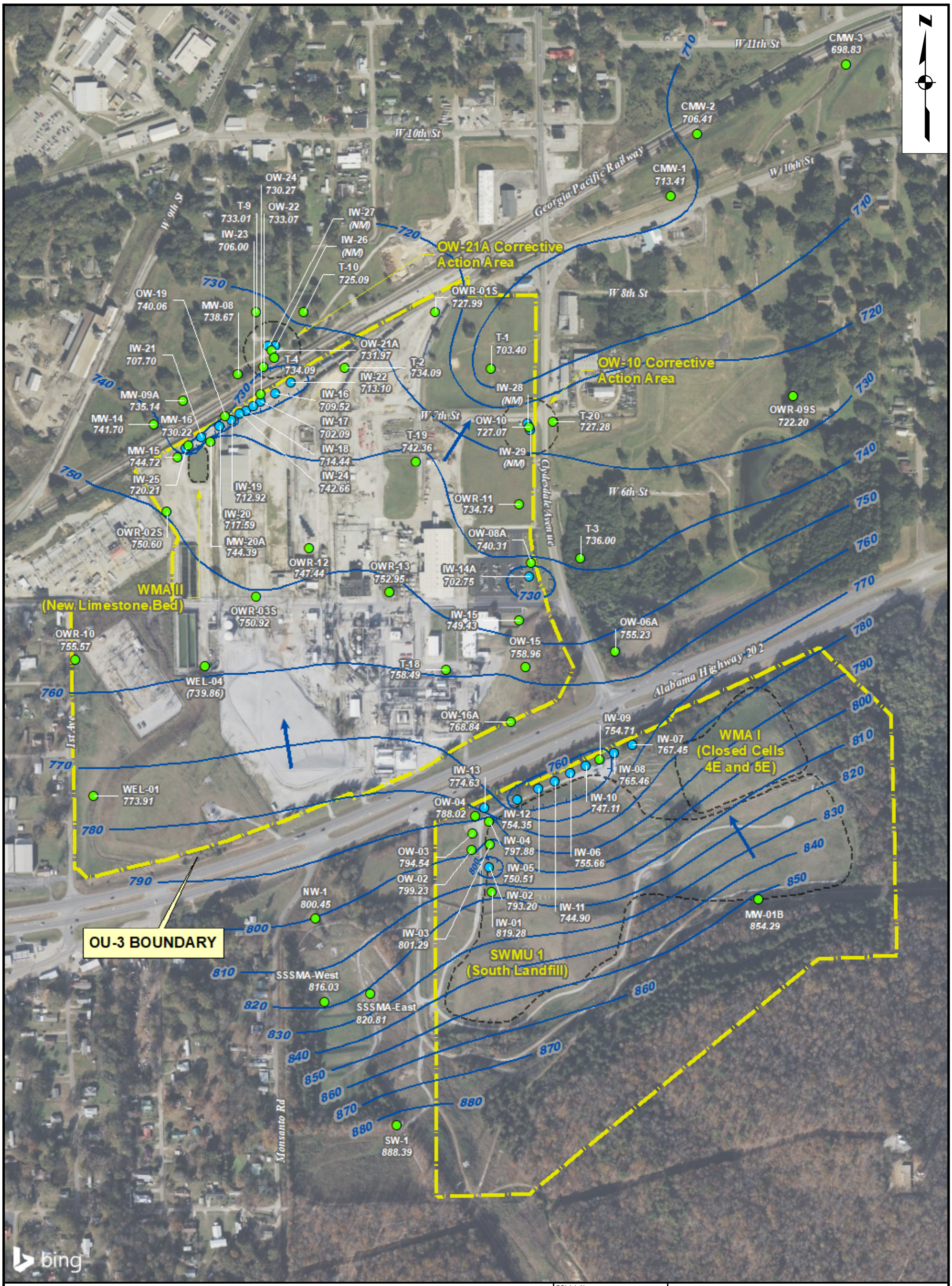


NOTES:
1. GROUND SURFACE PROFILE ESTIMATED FROM BORING ELEVATIONS.
2. WATER LEVEL DATA MEASURED CONCURRENTLY ON 8/11/98.
3. LITHOLOGIC CONTACTS ARE INTERPOLATED BETWEEN BORINGS AND ARE APPROXIMATE.
4. CONTACT INFORMATION TAKEN FROM WARMAN AND CAUSEY 1962.

Golder Associates Jacksonville, Florida	SCALE AS SHOWN	TITLE	HYDROGEOLOGIC CROSS SECTION B-B'
	DATE 07/06/06		
	DESIGN DJM		
	CADD MRM		
FILE No. 9433680C012	CHECK LP 3/13/07		
PROJECT No. 943-3680 REV. 0	REVIEW DJM 3/13/07	SOLUTIA INC.	FIGURE C-5

Source: Solutia, Inc., 2007. "RCRA Part B Post-Closure Permit Application," ALD 004 019 048, Revision 1, Anniston Facility, Alabama, March 2007.

GSI ENVIRONMENTAL	GSI Job No. 6495	Drawn By: CDM	**WEST-EAST CROSS-SECTION**
	Issued: 21-Apr-2023	Chk'd By: WBS	**2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report**
	Scale: As Shown	Aprv'd By: TMM	Solutia Inc.
	Map ID: **001_06**	**FIGURE 6**	Anniston, Alabama



LEGEND

- Shallow Residuum
- Interceptor
- (739.86) Value not used for contouring
- Operable Unit 3 (OU-3) boundary
- –760– Potentiometric surface contour (ft msl), dashed where inferred
- General groundwater flow direction

Notes

1. * = The contours depicted have been drawn to illustrate the overall flow field. Therefore, high-density contours associated with cones of depression around interceptor wells are not shown.
2. Projected Coordinate System: NAD 1983, UTM Zone 16N (meters).
3. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

GSI Job No.	6495
Issued:	21-Apr-2023
Revised:	
Map ID:	001_07
Drawn By:	CDM
Reviewed By:	WBS
Approved By:	TMM

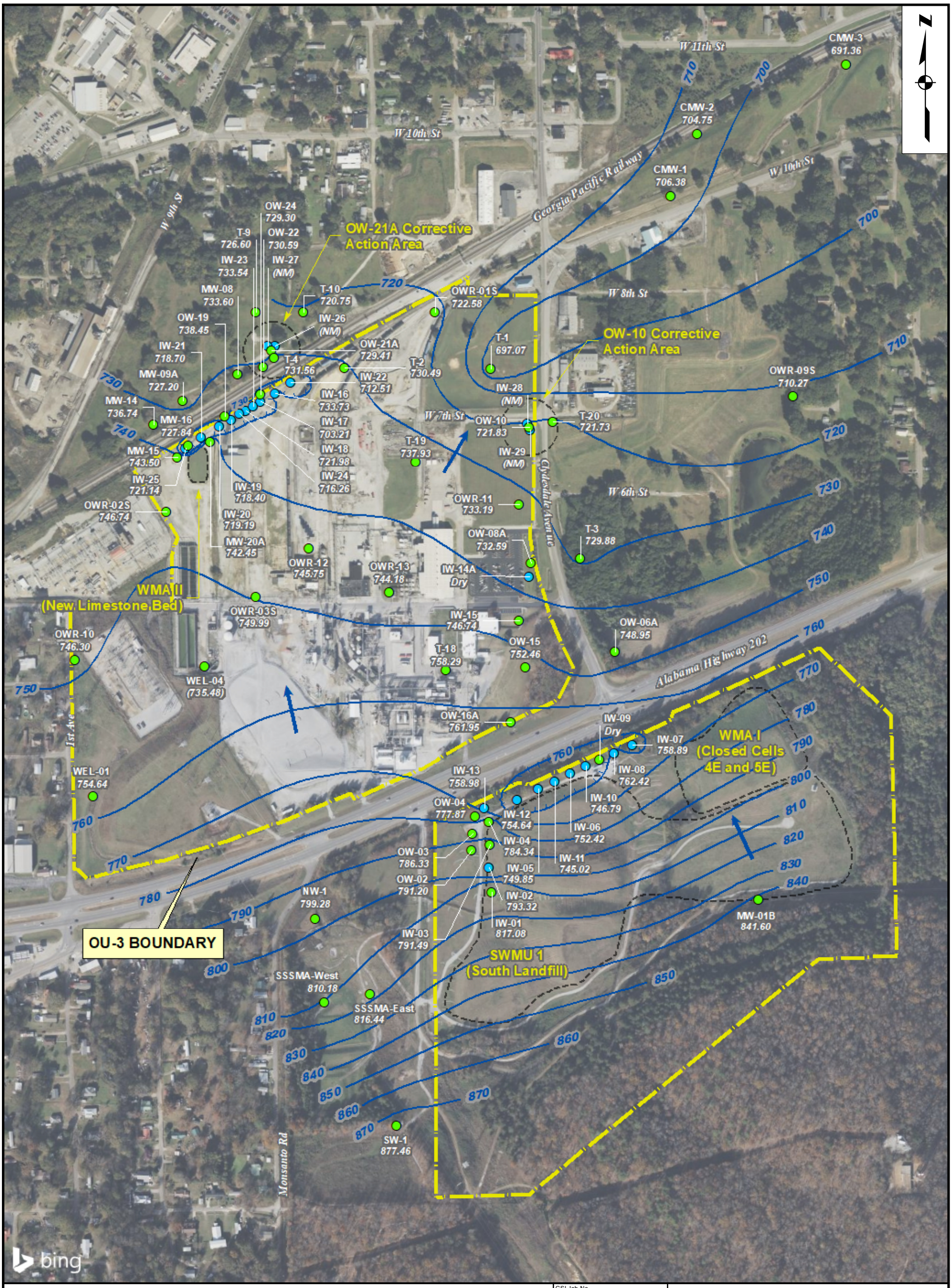
FIGURE 7a

GSI ENVIRONMENTAL

POTENTIOMETRIC SURFACE MAP: SHALLOW RESIDUUM, APRIL 2022

2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama



LEGEND

- Shallow Residuum
- Interceptor
- (735.48) Value not used for contouring
- Operable Unit 3 (OU-3) boundary
- – 760 – Potentiometric surface contour (ft msl), dashed where inferred
- General groundwater flow direction

Notes

1. * = The contours depicted have been drawn to illustrate the overall flow field. Therefore, high-density contours associated with cones of depression around interceptor wells are not shown.
2. Projected Coordinate System: NAD 1983, UTM Zone 16N (meters).
3. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

GSI Job No.	6495
Issued:	21-Apr-2023
Revised:	
Map ID:	001_07
Drawn By:	CDM
Reviewed By:	WBS
Approved By:	TMM

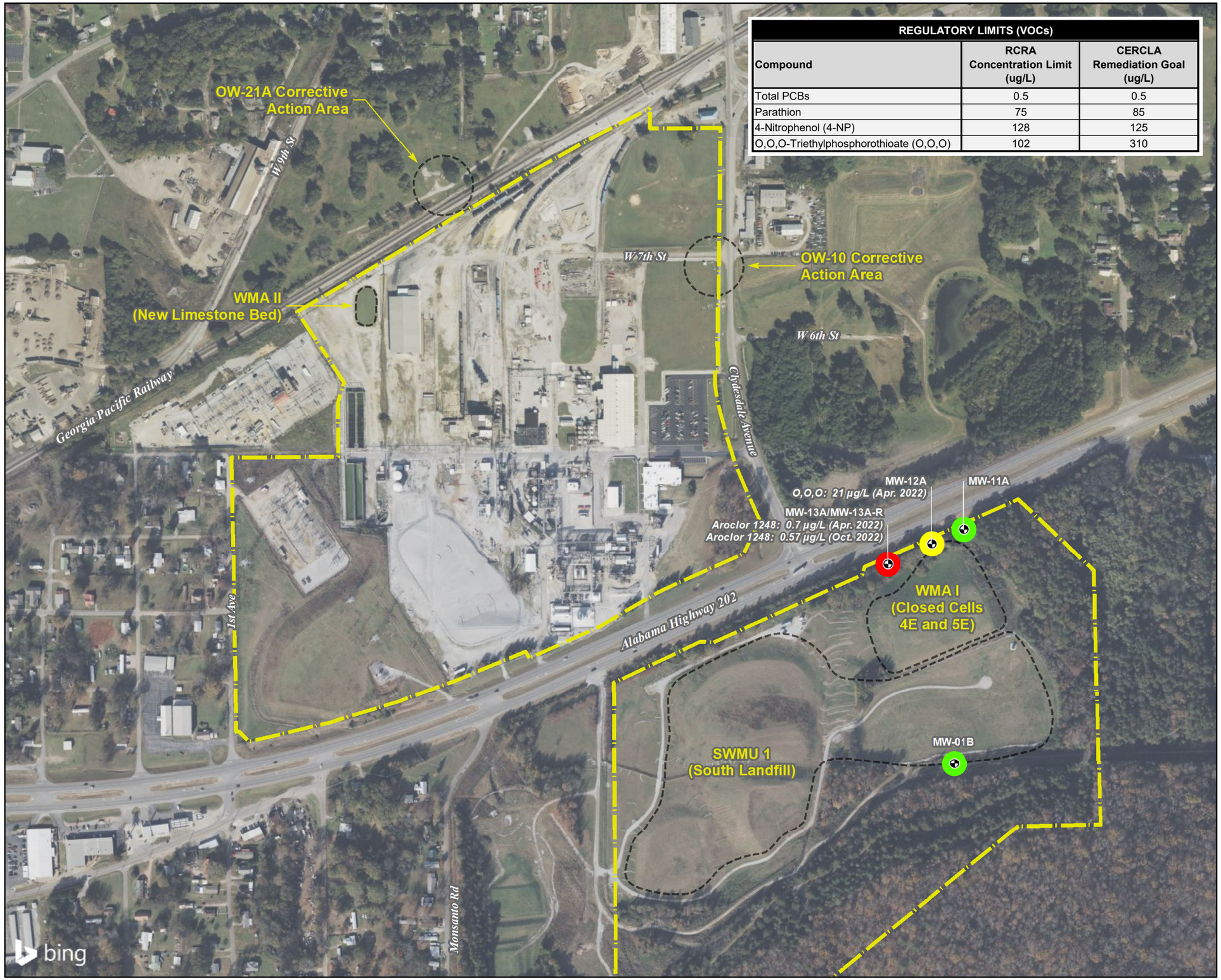
FIGURE 7b

GSI ENVIRONMENTAL

POTENTIOMETRIC SURFACE MAP: SHALLOW RESIDUUM, OCTOBER 2022

2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama



REGULATORY LIMITS (VOCs)		
Compound	**RCRA Concentration Limit (ug/L)**	**CERCLA Remediation Goal (ug/L)**
Total PCBs	0.5	0.5
Parathion	75	85
4-Nitrophenol (4-NP)	128	125
O,O,O-Triethylphosphorothioate (O,O,O)	102	310

N

LEGEND

- Monitoring well
- No analytes detected
- One or more analytes detected below regulatory limits
- One or more analytes detected above regulatory limits
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. MW-13A was sampled in April 2022. Its replacement well, MW-13A-R, was sampled in October 2022.
2. Analytes: PCBs, parathion, 4-nitrophenol, and O,O,O-triethylphosphorothioate, samples from MW-01B also analyzed for cobalt, mercury, sulfotepp, 1,2-dichlorobenzene, 1,4-dichlorobenzene, and chlorobenzene.
3. Approximate locations of site features shown.
4. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

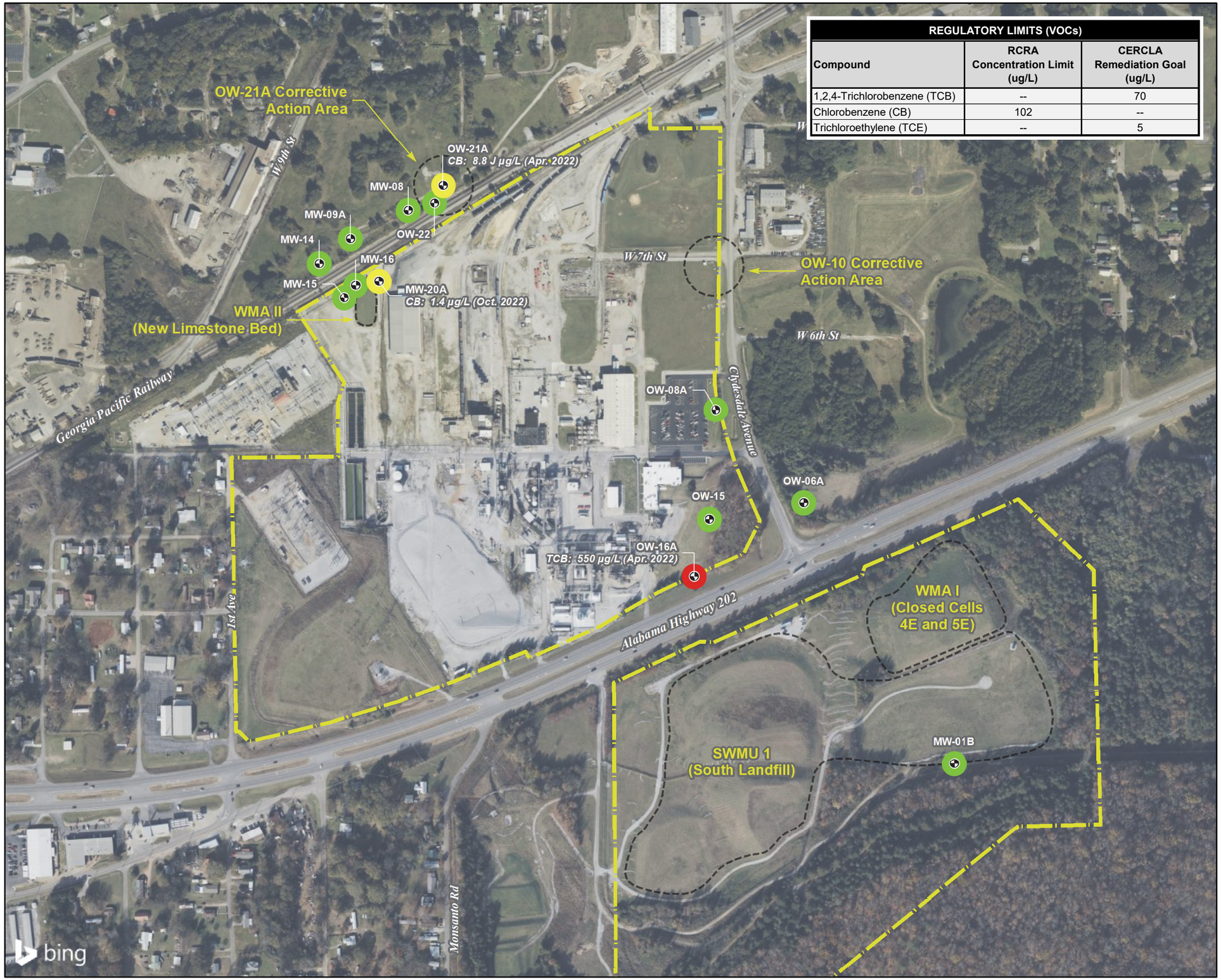
RESULTS OF 2022 RCRA GROUNDWATER DETECTION MONITORING AT WMA I

2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	6495	Drawn By:	CDM
Issued:	21-Apr-2023	Chk'd By:	JA
Map ID:	**001_08**	Appv'd By:	TMM

FIGURE 8



REGULATORY LIMITS (VOCs)		
Compound	**RCRA Concentration Limit (ug/L)**	**CERCLA Remediation Goal (ug/L)**
1,2,4-Trichlorobenzene (TCB)	--	70
Chlorobenzene (CB)	102	--
Trichloroethylene (TCE)	--	5

N

LEGEND

- Monitoring well
- VOCs not detected
- One or more VOCs detected below regulatory limits; or no RCRA concentration limit established
- One or more VOCs detected above regulatory limits
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. VOCs: Volatile Organic Compounds.
2. Analytes: 1,2,4-Trichlorobenzene (TCB); Chlorobenzene (CB); Trichloroethylene (TCE).
   - Highest reported detections shown.
3. 1,2,4-Trichlorobenzene is analyzed in well OW-16A per CERCLA requirements and is compared to the CERCLA Remediation Goal.
4. Approximate locations of site features shown.
5. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

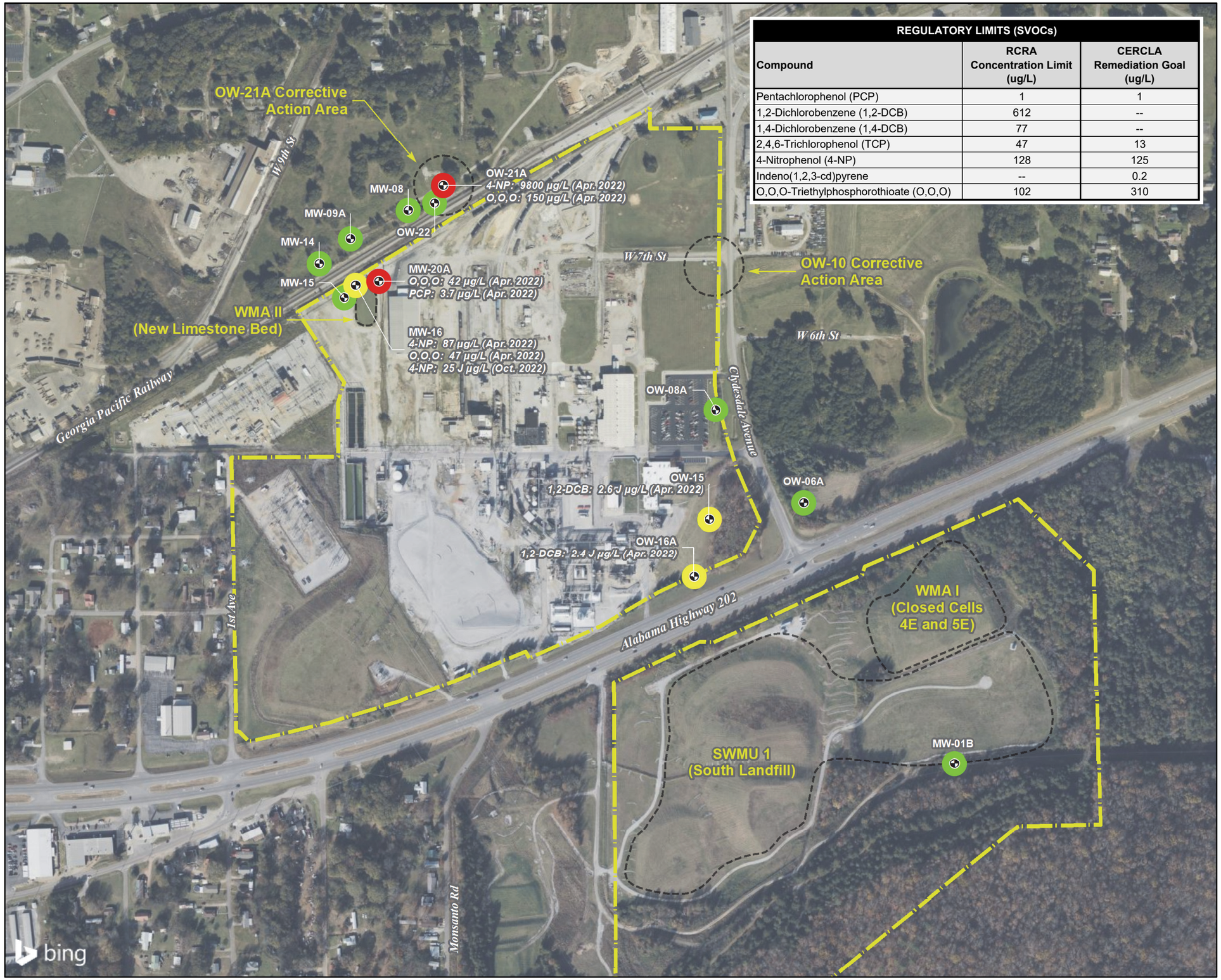
RESULTS OF 2022 RCRA GROUNDWATER CORRECTIVE ACTION MONITORING AT WMA II AND SWMU 1: VOLATILE ORGANIC COMPOUNDS

2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	6495	Drawn By:	CDM
Issued:	21-Apr-2023	Chk'd By:	JA
Map ID:	**001_09**	Appv'd By:	TMM

FIGURE 9



REGULATORY LIMITS (SVOCs)		
Compound	**RCRA Concentration Limit (ug/L)**	**CERCLA Remediation Goal (ug/L)**
Pentachlorophenol (PCP)	1	1
1,2-Dichlorobenzene (1,2-DCB)	612	--
1,4-Dichlorobenzene (1,4-DCB)	77	--
2,4,6-Trichlorophenol (TCP)	47	13
4-Nitrophenol (4-NP)	128	125
Indeno(1,2,3-cd)pyrene	--	0.2
O,O,O-Triethylphosphorothioate (O,O,O)	102	310

N

LEGEND

- Monitoring well
- SVOCs not detected
- One or more SVOCs detected below regulatory limits
- One or more SVOCs detected above regulatory limits
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. SVOCs: Semi-Volatile Organic Compounds.
2. Analytes: Pentachlorophenol (PCP); 1,2-Dichlorobenzene (1,2-DCB); 1,4-Dichlorobenzene (1,4-DCB); 2,4,6-Trichlorophenol (TCP); 4-Nitrophenol (4-NP); Indeno(1,2,3-cd)pyrene; O,O,O-Triethylphosphorothioate (O,O,O);.
3. Approximate locations of site features shown.
4. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

RESULTS OF 2022 RCRA GROUNDWATER CORRECTIVE ACTION MONITORING AT WMA II AND SWMU 1: SEMI-VOLATILE ORGANIC COMPOUNDS

2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	6495	Drawn By:	CDM
Issued:	21-Apr-2023	Chk'd By:	JA
Map ID:	**001_10**	Appv'd By:	TMM

FIGURE 10

REGULATORY LIMITS (PCBs)		
Compound	RCRA Concentration Limit (ug/L)	CERCLA Remediation Goal (ug/L)
Total PCBs	0.5	0.5

OW-21A
Aroclor 1221: 12 µg/L (Apr. 2022)
Aroclor 1248: 19 µg/L (Apr. 2022)
Aroclor 1260: 0.88 µg/L (Apr. 2022)

OW-21A Corrective Action Area

MW-08

MW-09A

MW-14

MW-16

MW-15

MW-20A

OW-22
Aroclor 1248: 0.84 µg/L (Apr. 2022)

WMA II (New Limestone Bed)

OW-10 Corrective Action Area

OW-08A
Aroclor 1248: 3.2 µg/L (Apr. 2022)
Aroclor 1254: 1.9 µg/L (Apr. 2022)
Aroclor 1260: 0.58 µg/L (Apr. 2022)

OW-15

OW-06A

OW-16A
Aroclor 1221: 56 J µg/L (Apr. 2022)
Aroclor 1254: 13 J µg/L (Apr. 2022)

WMA I (Closed Cells 4E and 5E)

SWMU 1 (South Landfill)

MW-01B

W 9th St
W 8th St
W 7th St
W 6th St
Georgia Pacific Railway
Clydesdale Avenue
1st Ave
Alabama Highway 202
Monsanto Rd
bing

N

LEGEND

- Monitoring well
- PCBs not detected
- One or more PCBs detected below regulatory limits
- One or more PCBs detected above regulatory limits
- Filtered sample
- Unfiltered sample
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. Analytes: Polychlorinated Biphenyls (PCBs).
2. Approximate locations of site features shown.
3. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

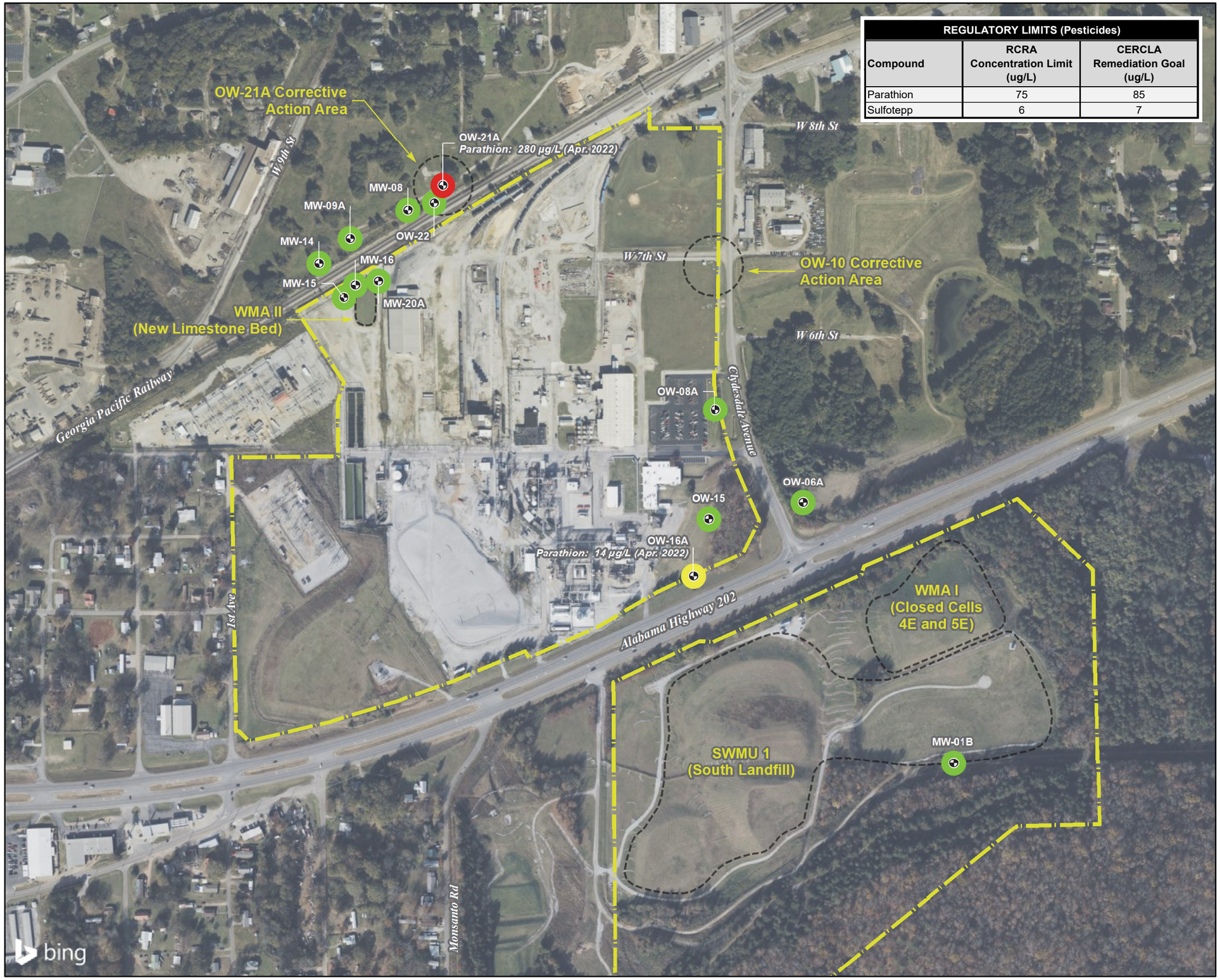
RESULTS OF 2022 RCRA GROUNDWATER CORRECTIVE ACTION MONITORING AT WMA II AND SWMU 1: PCBs

2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	6495	Drawn By:	CDM
Issued:	21-Apr-2023	Chk'd By:	JA
Map ID:	**001_11**	Appv'd By:	TMM

FIGURE 11



REGULATORY LIMITS (Pesticides)		
Compound	RCRA Concentration Limit (ug/L)	CERCLA Remediation Goal (ug/L)
Parathion	75	85
Sulfotepp	6	7

N

LEGEND

- Monitoring well
- Pesticides not detected
- One or more pesticides detected below regulatory limits
- One or more pesticides detected above regulatory limits
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. Analytes: Parathion, Sulfotepp.
2. Approximate locations of site features shown.
3. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

RESULTS OF 2022 RCRA GROUNDWATER CORRECTIVE ACTION MONITORING AT WMA II AND SWMU 1: PESTICIDES

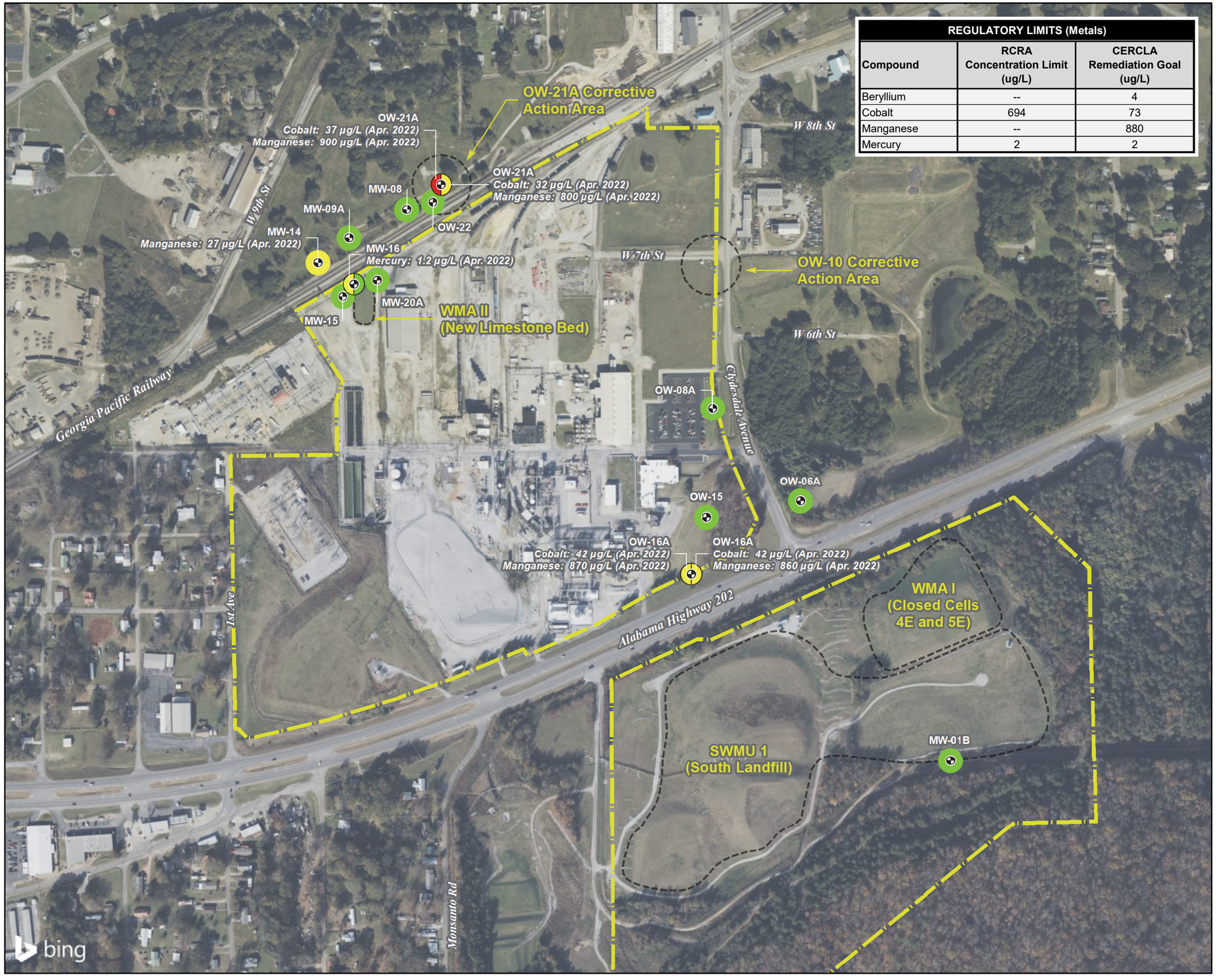
2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No. 6495	Drawn By: CDM
Issued: 21-Apr-2023	Chk'd By: JA
Map ID: **001_12**	Appv'd By: TMM

FIGURE 12

REGULATORY LIMITS (Metals)		
Compound	RCRA Concentration Limit (ug/L)	CERCLA Remediation Goal (ug/L)
Beryllium	--	4
Cobalt	694	73
Manganese	--	880
Mercury	2	2



LEGEND

- Monitoring well
- Metals not detected
- Metals detected below regulatory limits
- Metals detected above regulatory limits
- Filtered sample
- Unfiltered sample
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. Analytes: Beryllium, Cobalt, Manganese, Mercury.
2. Manganese is analyzed in wells MW-14, OW-08A, OW-16A, and OW-21A per CERCLA requirements and is compared to the CERCLA Remediation Goal.
3. Approximate locations of site features shown.
4. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

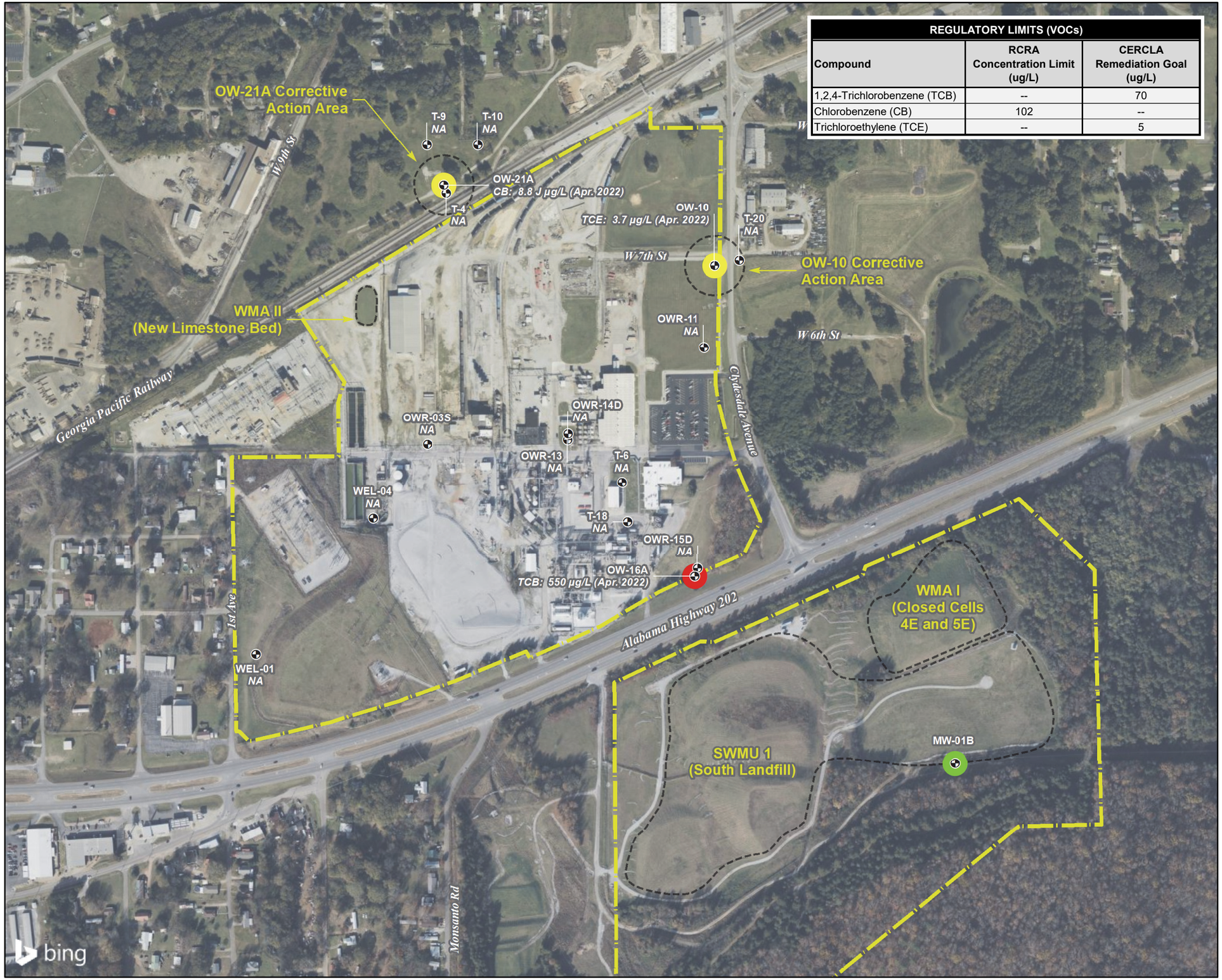
RESULTS OF 2022 RCRA GROUNDWATER CORRECTIVE ACTION MONITORING AT WMA II AND SWMU 1: METALS

2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	6495	Drawn By:	CDM
Issued:	21-Apr-2023	Chk'd By:	JA
Map ID:	**001_13**	Appv'd By:	TMM

FIGURE 13



REGULATORY LIMITS (VOCs)		
Compound	**RCRA Concentration Limit (ug/L)**	**CERCLA Remediation Goal (ug/L)**
1,2,4-Trichlorobenzene (TCB)	--	70
Chlorobenzene (CB)	102	--
Trichloroethylene (TCE)	--	5

N

LEGEND

- Monitoring well
- VOCs not detected
- One or more VOCs detected below regulatory limits
- One or more VOCs detected above regulatory limits
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. VOCs: Volatile Organic Compounds.
2. Analytes: 1,2,4-Trichlorobenzene (TCB); Chlorobenzene (CB); Trichloroethylene (TCE).
   - Highest reported detections shown.
3. Samples from well OW-21A analyzed per the RCRA Groundwater Corrective Action Program.
4. NA: Not Analyzed.
5. Approximate locations of site features shown.
6. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

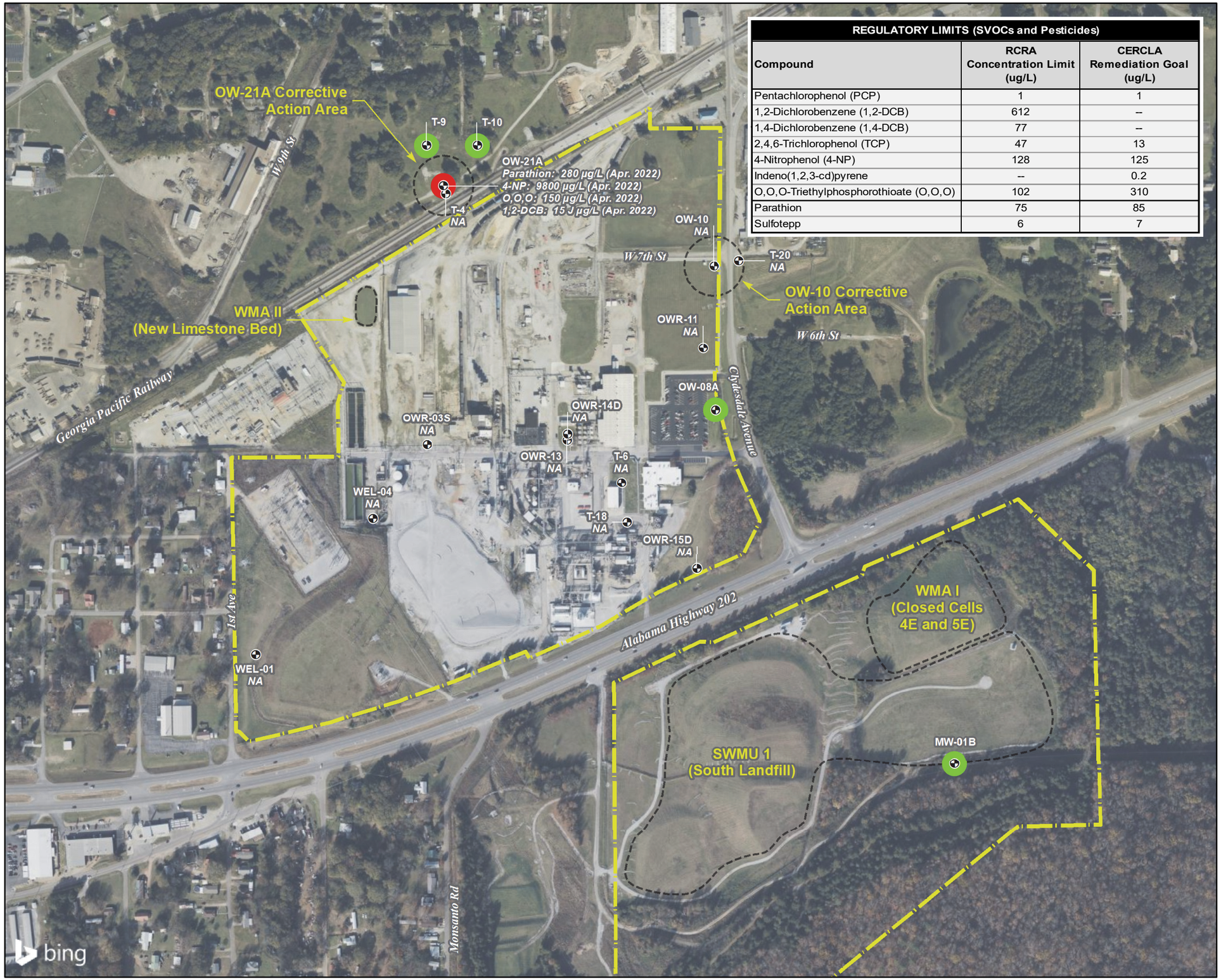
RESULTS OF 2022 CERCLA PERFORMANCE VERIFICATION SAMPLING AT OU-3: VOLATILE ORGANIC COMPOUNDS

2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	6495	Drawn By:	CDM
Issued:	21-Apr-2023	Chk'd By:	JA
Map ID:	**001_14**	Appv'd By:	TMM

FIGURE 14



REGULATORY LIMITS (SVOCs and Pesticides)		
Compound	**RCRA Concentration Limit (ug/L)**	**CERCLA Remediation Goal (ug/L)**
Pentachlorophenol (PCP)	1	1
1,2-Dichlorobenzene (1,2-DCB)	612	--
1,4-Dichlorobenzene (1,4-DCB)	77	--
2,4,6-Trichlorophenol (TCP)	47	13
4-Nitrophenol (4-NP)	128	125
Indeno(1,2,3-cd)pyrene	--	0.2
O,O,O-Triethylphosphorothioate (O,O,O)	102	310
Parathion	75	85
Sulfotepp	6	7

N

LEGEND

- Monitoring well
- SVOCs or pesticides not detected
- One or more SVOCs or pesticides detected below regulatory limits
- One or more SVOCs or pesticides detected above regulatory limits
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. SVOCs: Semi-Volatile Organic Compounds.
2. Analytes: Pentachlorophenol (PCP); 1,2-Dichlorobenzene (1,2-DCB); 1,4-Dichlorobenzene (1,4-DCB); 2,4,6-Trichlorophenol (TCP); 4-Nitrophenol (4-NP); Indeno(1,2,3-cd)pyrene; O,O,O-Triethylphosphorothioate (O,O,O); Parathion; Sulfotepp.
3. Samples from well OW-21A analyzed per the RCRA Groundwater Corrective Action Program.
4. NA: Not Analyzed.
5. Approximate locations of site features shown.
6. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

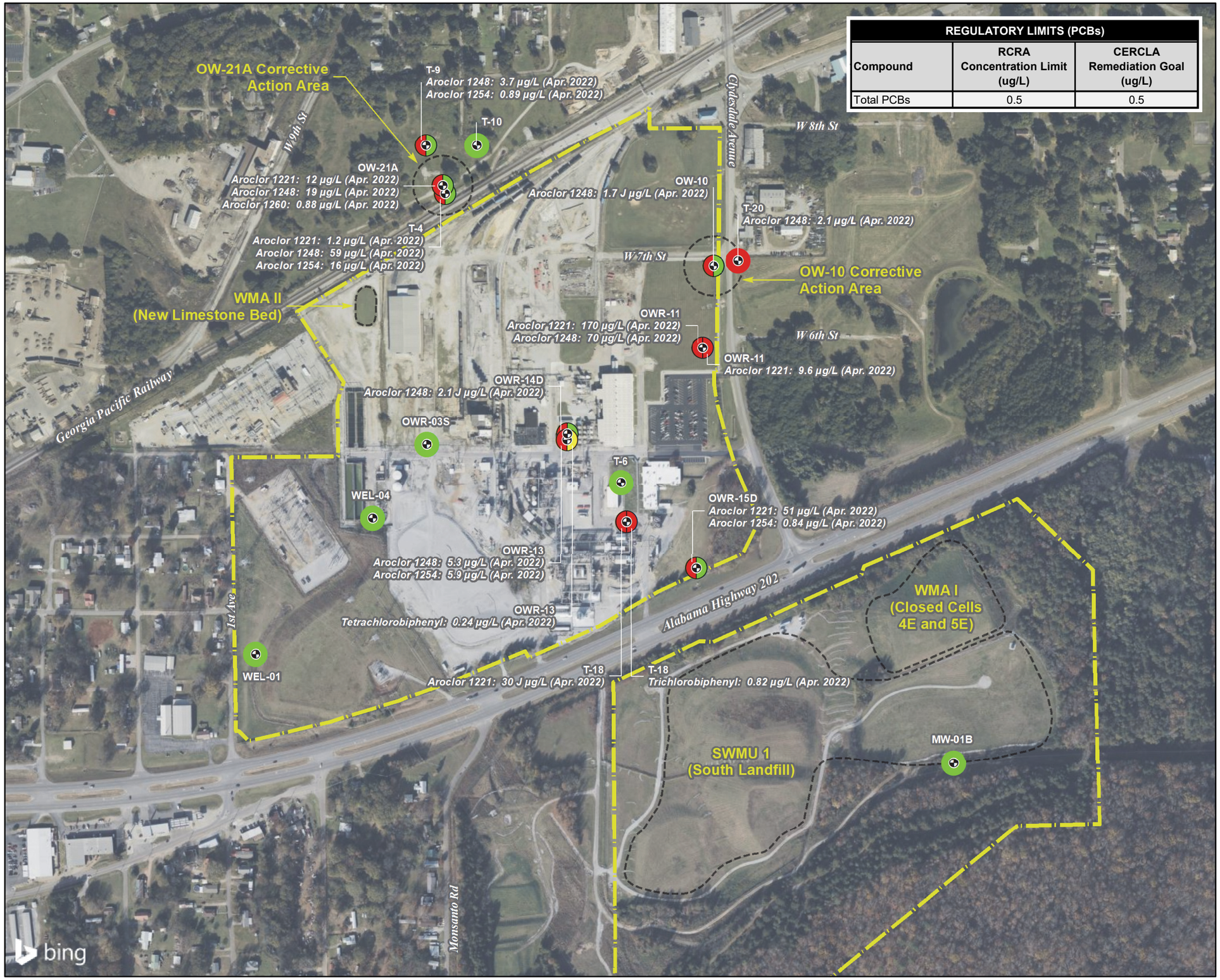
RESULTS OF 2022 CERCLA PERFORMANCE VERIFICATION SAMPLING AT OU-3: PESTICIDES AND SEMI-VOLATILE ORGANIC COMPOUNDS

2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	6495	Drawn By:	CDM
Issued:	21-Apr-2023	Chk'd By:	JA
Map ID:	**001_15**	Appv'd By:	TMM

FIGURE 15



REGULATORY LIMITS (PCBs)		
Compound	RCRA Concentration Limit (ug/L)	CERCLA Remediation Goal (ug/L)
Total PCBs	0.5	0.5

N

LEGEND

- Monitoring well
- PCBs not detected
- One or more PCBs detected below regulatory limits
- One or more PCBs detected above regulatory limits
- Filtered sample
- Unfiltered sample
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. Analytes: Polychlorinated Biphenyls (PCBs).
2. Approximate locations of site features shown.
3. Samples from well OW-21A analyzed per the RCRA Groundwater Corrective Action Program.
4. Wells OWR-13, OWR-14D, and T-18 are analyzed by both Method 8081B/8082A (Aroclors) and Method 680 (PCB Homologs). For these wells, the method with the higher total PCBs is shown.
5. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

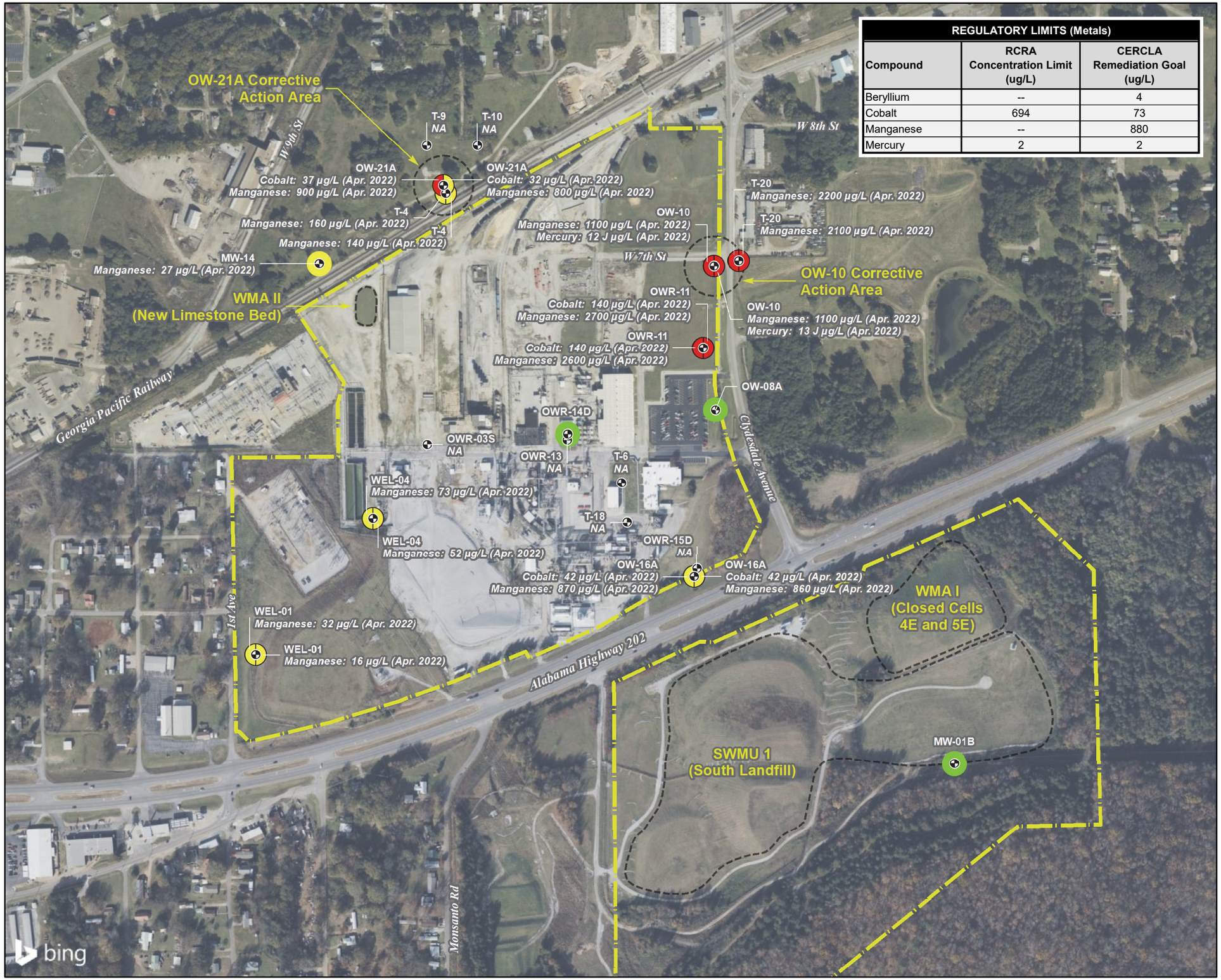
RESULTS OF 2022 CERCLA PERFORMANCE VERIFICATION SAMPLING AT OU-3: PCBs

2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	6495	Drawn By:	CDM
Issued:	21-Apr-2023	Chk'd By:	JA
Map ID:	**001_16**	Appv'd By:	TMM

FIGURE 16



REGULATORY LIMITS (Metals)		
Compound	**RCRA Concentration Limit (ug/L)**	**CERCLA Remediation Goal (ug/L)**
Beryllium	--	4
Cobalt	694	73
Manganese	--	880
Mercury	2	2

LEGEND

- Monitoring well
- Metals not detected
- One or more metals detected below regulatory limits
- One or more metals detected above regulatory limits
- Filtered sample
- Unfiltered sample
- Operable Unit 3 (OU-3) boundary
- Unit/Area addressed by RCRA Permit/CERCLA Remedial Action (approximate boundary)

Notes

1. Analytes: Beryllium, Cobalt, Manganese, Mercury.
2. Samples from well OW-21A analyzed per the RCRA Groundwater Corrective Action Program, with the exception of Manganese, which is analyzed per CERCLA requirements and is compared to the CERCLA Remediation Goal.
3. Samples from well OW-21A analyzed per the RCRA Groundwater Corrective Action Program.
4. NA: Not Analyzed.
5. Background Imagery: Microsoft Bing system via ESRI's ArcGIS Online premium services (http://maps.bing.com).

Feet
0 200 400

Projected Coordinate System
Datum: NAD 1983
UTM: Zone 16N (meters)

GSI ENVIRONMENTAL

RESULTS OF 2022 CERCLA PERFORMANCE VERIFICATION SAMPLING AT OU-3: METALS

2022 Annual Groundwater Detection Monitoring and Corrective Action Effectiveness Report

Solutia Inc.
Anniston, Alabama

GSI Job No.	6495	Drawn By:	CDM
Issued:	21-Apr-2023	Chk'd By:	JA
Map ID:	**001_17**	Appv'd By:	TMM

FIGURE 17

2022 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia Inc. Anniston, Alabama

RCRA Post-Closure Permit ALD 004 019 048

Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDICES

Appendix A. Well Construction Specifications

Appendix B. Purging Logs

Appendix C. Sampling Logs

Appendix D. Calibration Logs

Appendix E. Historic Data Tabulation

Appendix F. Data Validation

Appendix G. Mann-Kendall Statistical Analyses

Appendix H. Laboratory Reports

2022 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia Inc. Anniston, Alabama

RCRA Post-Closure Permit ALD 004 019 048

Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDIX A

Appendix A. Well Construction Specifications

GSI ENVIRONMENTAL

APPENDIX A
WELL CONSTRUCTION SPECIFICATIONS

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Northing (Note 3)	Easting (Note 3)	Date Installed	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Stick-up (Elevations) (ft) (Note 6)	Stick-up (Measured) (ft) (Note 7)	Stick up Difference (ft)	Approximate Boring Depth (ft bgs)	Approximate Top of Screen (ft bgs)	Approximate Bottom of Screen (ft bgs)	Total Well Depth (to Bottom of Screen) (ft btoc)	Screened Interval Length (ft)	Top of Screen (ft msl)	Bottom of Screen (ft msl)	Well Type
Observation Wells																
OW-02 (Note 5)	1145348.00	650023.00	May 1985	806.10	807.69	1.6	1.3	0.3	35	19	24	25.6	5	787.10	782.10	Residuum
OW-03 (Note 5)	1145419.00	650031.00	May 1985	802.10	805.25	3.1	2.9	0.3	25	19	24	27.2	5	783.10	778.10	Residuum
OW-04 (Note 5)	1145494.00	650041.00	May 1985	796.70	798.57	1.9	1.7	0.2	30	22	27	28.9	5	774.70	769.70	Residuum
OW-06A	1146212.04	650662.41	March 1998	788.93	791.60	2.7	2.8	0.1	49	39	49	51.8	10	749.85	739.85	Residuum
OW-08A	1146601.00	650298.00	March 1998	746.30	749.16	2.9	2.9	0.0	23	12.5	22.5	25.4	10	733.80	723.80	Residuum
OW-10	1147198.92	650297.70	October 1980	736.67	736.67	0.0	0.0	0.1	40	33	38	40.2	5	701.71	696.71	Residuum
OW-15 (Note 5)	1146146.00	650268.00	December 1987	764.00	766.90	2.9	2.7	0.2	40	35	40	42.9	5	729.00	724.00	Residuum
OW-16A	1145907.00	650202.00	March 1998	777.60	779.74	2.1	2.0	0.1	33	23	33	35.1	10	754.60	744.60	Residuum
OW-19	1147262.06	648966.21	October 1985	745.80	748.72	2.9	2.5	0.4	25	19	24	26.9	5	726.80	721.80	Residuum
OW-21A	1147546.72	649174.02	January 2003	741.90	744.46	2.6	2.4	0.1	35	25	35	37.6	10	716.90	706.90	Residuum
OW-22	1147474.08	649136.92	June 1986	741.90	745.57	3.7	2.3	1.4	34	24	34	37.7	10	717.90	707.90	Residuum
OW-24	1147353.36	649122.38	June 1986	743.50	746.15	2.6	2.4	0.2	29	24	29	31.7	5	719.50	714.50	Residuum
West End Landfill Wells																
WEL-01	1145603.01	648369.42	April 1994	777.42	778.75	1.3	1.4	0.1	31.5	19	29	30.6	10	758.17	748.17	Residuum
WEL-04	1146164.41	648864.25	Pre-1995 (estimated)	763.14	765.94	2.8	2.9	0.1	47	34.5	44.5	47.3	10	728.64	718.64	Residuum
Monitoring Wells																
MW-01B	1145116.72	651277.30	October 1985	880.09	881.59	1.5	1.7	0.2	62.5	57.5	62.5	64.0	5	822.59	817.59	Residuum
MW-08	1147444.00	649026.00	Pre-1995 (estimated)	743.20	746.80	3.6	2.3	1.3	27	22	27	30.6	5	721.20	716.20	Residuum
MW-09A	1147328.70	648784.60	February 2003	748.00	751.02	3.0	2.6	0.4	33.2	23	33	36.0	10	725.00	715.00	Residuum
MW-11A	1146090.98	651328.20	October 1985	783.13	784.13	1.0	0.8	0.2	117	109	114	115.0	5	674.13	669.13	Bedrock
MW-12A	1146032.60	651193.11	October 1985	783.69	785.69	2.0	1.8	0.3	124.5	105	110	112.0	5	678.69	673.69	Bedrock
MW-13A	1145950.40	651010.06	October 1985	779.34	782.01	2.7	2.5	0.1	123.5	105	110	112.7	5	674.34	669.34	Bedrock
MW-13A-R	1145945.48	651000.92	October 2022	779.30	782.15	2.9	2.9	0.0	112	105	110	112.9	5	674.30	669.30	Bedrock
MW-14 (Note 4)	1147227.00	648653.00	May 1985	749.14	751.3	2.2	1.9	0.3	24	19	24	26.2	5	730.14	725.14	Residuum
MW-15	1147084.00	648755.00	October 1985	752.52	756.19	3.7	2.7	1.0	27	19	24	27.7	5	733.52	728.52	Residuum
MW-16	1147135.97	648804.30	October 1985	752.62	755.70	3.1	3.1	0.0	68.5	58	68	71.1	10	694.62	684.62	Residuum
MW-20A	1147151.04	648900.78	May 1988	751.65	752.90	1.3	1.5	0.3	24	19	24	25.3	5	732.65	727.65	Residuum
SSSMA Wells																
NW-1	1145056.92	649336.94	July 2006	825.09	827.40	2.3	2.3	0.0	54	20	40	42.3	20	805.09	785.09	Residuum
SW-1	1144141.89	649682.45	June 2006	900.55	902.95	2.4	2.4	0.0	52	32	52	54.4	20	868.55	848.55	Residuum
Other Wells																
DW-01	1147158.05	648895.87	September 1991	751.08	753.88	2.8	NA	NA	96	83.25	93.25	96.1	10	667.83	657.83	Interceptor
CMW-1	1148202.46	650928.78	August 2004	717.14	720.40	3.3	3.0	0.3	28.5	18	28.5	31.8	10	699.14	688.64	Residuum
CMW-2	1148473.21	651048.47	August 2004	713.85	716.69	2.8	3.1	0.2	22.5	12	22.5	25.3	10	701.85	691.35	Residuum
CMW-3	1148770.79	651705.61	August 2004	707.09	710.22	3.1	2.7	0.4	27.0	16.5	27	30.1	10	690.59	680.09	Residuum
SSSMA-East	1144721.80	649574.00	August 2010	826.80	829.70	2.9	2.9	0.0	15	10	15	17.9	5	816.80	811.80	Residuum
SSSMA-West	1144687.10	649371.10	August 2010	825.30	827.90	2.6	2.6	0.0	15.3	10.3	15.3	17.9	5	815.00	810.00	Residuum
T Wells																
T-1	1147455.96	650133.79	June 2005	731.47	732.72	1.3	0.3	0.9	45	30	40	41.3	10	701.47	691.47	Residuum
T-2	1147466.94	649491.74	June 2005	749.13	751.13	2.0	1.6	0.4	44	34	44	46.0	10	715.13	705.13	Residuum
T-3	1146620.52	650515.41	June 2005	745.39	746.13	0.7	0.9	0.2	25	15	25	26.0	10	730.13	720.13	Residuum
T-4	1147513.54	649184.18	June 2005	742.18	743.28	1.1	0.8	0.3	25	15	25	25.8	10	727.18	717.18	Residuum
T-6	1146301.15	649902.83	October 2006	761.96	761.96	0.0	0.0	0.0	150	115	125	124.8	10	645.13	635.13	Bedrock
T-9	1147714.22	649106.27	April 2008	742.47	745.46	3.0	3.0	0.0	37	27	37	40.0	10	715.47	705.47	Residuum
T-10	1147711.36	649316.74	April 2008	737.20	740.20	3.0	3.0	0.0	35	25	35	38.0	10	712.20	702.20	Residuum
T-11	1148974.57	652936.85	April 2008	695.32	698.23	2.9	3.0	0.1	21	8.5	13.5	16.4	5	686.82	681.82	Residuum
T-16	1135347.63	657413.14	January 2012	626.62	626.26	-0.4	NA	NA	15	4	14	13.6	10	622.62	612.62	Residuum
T-18	1146137.41	649922.53	December 2013	763.06	762.78	-0.3	NA	NA	28	16	26	25.7	10	747.06	737.06	Residuum
T-19	1147051.28	649800.11	December 2013	755.91	758.51	2.6	2.6	0.0	39	25.7	35.7	38.3	10	730.21	720.21	Residuum
T-20	1147218.81	650404.15	December 2013	731.32	731.53	0.2	NA	NA	40	27.5	37.5	37.2	10	704.36	694.36	Residuum

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APPENDIX A
WELL CONSTRUCTION SPECIFICATIONS

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Northing (Note 3)	Easting (Note 3)	Date Installed	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Stick-up (Elevations) (ft) (Note 6)	Stick-up (Measured) (ft) (Note 7)	Stick up Difference (ft)	Approximate Boring Depth (ft bgs)	Approximate Top of Screen (ft bgs)	Approximate Bottom of Screen (ft bgs)	Total Well Depth (to Bottom of Screen) (ft btoc)	Screened Interval Length (ft)	Top of Screen (ft msl)	Bottom of Screen (ft msl)	Well Type
RFI Observation Wells																
OWR-01S	1147706.00	649892.00	June 1998	736.60	738.89	2.3	2.0	0.3	35	25	35	37.3	10	711.60	701.60	Residuum
OWR-02S	1146844.00	648706.00	June 1998	754.90	757.46	2.6	2.6	0.0	35	25	35	37.6	10	729.90	719.90	Residuum
OWR-03S	1146468.00	649095.00	June 1998	758.30	760.48	2.2	2.2	0.0	35	25	35	37.2	10	733.30	723.30	Residuum
OWR-09S	1147320.03	651456.59	June 1998	751.28	753.16	1.9	1.9	0.0	50	40	50	52.4	10	710.77	700.77	Residuum
OWR-10	1146199.67	648296.77	January 2003	767.0	769.95	3.0	2.6	0.4	49.2	39.2	49.2	52.2	10	727.80	717.80	Residuum
OWR-11	1146857.44	650249.85	January 2003	744.3	744.26	0.0	0.0	0.4	35	25	35	37.9	10	717.30	707.30	Residuum
OWR-12	1146677.47	649328.39	January 2003	760.6	763.20	2.6	2.6	0.0	37	27	37	39.6	10	733.60	723.60	Residuum
OWR-13	1146480.77	649678.04	January 2003	766.8	769.45	2.7	2.8	0.1	36	26	36	38.7	10	740.80	730.80	Residuum
OWR-14D	1146505.05	649680.62	June 2005	779.61	782.1	2.5	2.5	0.0	81	69	79	81.5	10	710.61	700.61	Residuum
OWR-15D	1145940.54	650213.52	June 2005	778.94	781.4	2.5	2.2	0.3	64	54	64	66.5	10	724.94	714.94	Residuum
Interceptor Wells																
IW-01 (Note 5)	1145164.00	650109.00	Pre-1995 (estimated)	820.5	821.18	0.7	0.7	0.0	26	11	21	21.7	10	809.5	799.50	Interceptor
IW-02 (Note 5)	1145271.00	650099.00	Pre-1995 (estimated)	813.5	815.27	1.8	1.5	0.2	25	10	20	21.8	10	803.5	793.50	Interceptor
IW-03 (Note 5)	1145371.00	650104.00	Pre-1995 (estimated)	806.6	810.59	4.0	2.5	1.4	25	10	20	24.0	10	796.6	786.60	Interceptor
IW-04 (Note 5)	1145473.00	650104.00	Pre-1995 (estimated)	798.9	799.88	1.0	0.7	0.3	25	10	20	21.0	10	788.9	778.90	Interceptor
IW-05	1145611.76	650319.73	Pre-1995 (estimated)	803.07	805.46	2.4	2.0	0.4	68	53	63	65.4	10	750.07	740.07	Interceptor
IW-06	1145677.55	650459.11	Pre-1995 (estimated)	800.07	803.84	3.8	0.8	3.0	68	25	68	71.8	43	775.07	732.07	Interceptor
IW-07	1145799.00	650734.10	Pre-1995 (estimated)	793.35	794.63	1.3	2.0	0.7	40	1	40	41.3	39	792.35	753.35	Interceptor
IW-08	1145764.36	650653.13	Pre-1995 (estimated)	796.77	798.02	1.3	0.5	0.8	39.5	1	39.5	40.8	38.5	795.77	757.27	Interceptor
IW-09	1145737.25	650589.28	Pre-1995 (estimated)	799.67	801.03	1.4	0.6	0.8	50	1	50	51.4	49	798.67	749.67	Interceptor
IW-10	1145709.99	650528.28	Pre-1995 (estimated)	800.67	801.93	1.3	0.7	0.6	68	1	68	69.3	67	799.67	732.67	Interceptor
IW-11	1145644.22	650392.38	Pre-1995 (estimated)	803.42	804.62	1.2	1.3	0.1	68	1	68	69.2	67	802.42	735.42	Interceptor
IW-12	1145566.11	650225.61	Pre-1995 (estimated)	796.49	797.86	1.4	1.0	0.4	50	1	50	51.4	49	795.49	746.49	Interceptor
IW-13	1145529.73	650083.91	Pre-1995 (estimated)	794.56	795.74	1.2	0.4	0.8	50	1	50	51.2	49	793.56	744.56	Interceptor
IW-14A	1146543.05	650289.77	February 2003	748.00	746.70	-1.3	-0.5	0.8	49.4	29.4	49.4	48.1	20	718.60	698.60	Interceptor
IW-15	1146349.39	650245.49	Pre-1995 (estimated)	755.45	756.73	1.3	1.7	0.4	45	1	45	46.3	44	754.45	710.45	Interceptor
IW-16	1147359.73	649187.53	Pre-1995 (estimated)	746.14	746.82	0.7	1.5	0.8	50	1	50	50.7	49	745.14	696.14	Interceptor
IW-17	1147321.33	649123.03	Pre-1995 (estimated)	745.86	746.65	0.8	1.0	0.2	50	1	50	50.8	49	744.86	695.86	Interceptor
IW-18	1147284.01	649058.39	Pre-1995 (estimated)	747.9	748.63	0.7	2.0	1.3	50	1	50	50.7	49	746.9	697.90	Interceptor
IW-19	1147246.11	648991.94	Pre-1995 (estimated)	748.63	749.31	0.7	1.2	0.5	50	1	50	50.7	49	747.63	698.63	Interceptor
IW-20	1147216.86	648942.43	Pre-1995 (estimated)	750.02	750.70	0.7	1.7	1.0	50	1	50	50.7	49	749.02	700.02	Interceptor
IW-21	1147170.58	648862.80	Pre-1995 (estimated)	751.8	752.45	0.7	0.7	0.0	50	1	50	50.7	49	750.8	701.80	Interceptor
IW-22	1147403.35	649253.88	February 2003	744.38	743.23	-1.1	-1.0	0.1	39.9	14.9	39.9	38.8	25	729.48	704.48	Interceptor
IW-23	1147303.90	649089.55	January 2003	746.15	745.20	-0.9	-0.9	0.0	50	25	50	49.1	25	721.15	696.15	Interceptor
IW-24	1147269.88	649031.47	January 2003	747.33	745.86	-1.5	-1.4	0.1	40	15	40	38.5	25	732.33	707.33	Interceptor
IW-25	1147121.03	648792.11	February 2003	753.50	751.96	-1.5	-1.3	0.2	40	15	40	38.5	25	738.50	713.50	Interceptor
IW-26	1147567.00	649189.00	August 2015	NA	731.90	NA	NA	NA	35	10	35	35.0	25	731.90	706.90	Interceptor
IW-27	1147567.00	649159.00	August 2015	NA	731.90	NA	NA	NA	35.3	10	35	35.3	25	731.90	706.90	Interceptor
IW-28	1147213.00	650291.00	August 2015	NA	726.70	NA	NA	NA	37.7	8	38	37.7	30	726.70	696.70	Interceptor
IW-29	1147185.00	650301.00	August 2015	NA	726.70	NA	NA	NA	37.4	8	38	37.4	30	726.70	696.70	Interceptor

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RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Northing (Note 3)	Easting (Note 3)	Date Installed	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Stick-up (Elevations) (ft) (Note 6)	Stick-up (Measured) (ft) (Note 7)	Stick up Difference (ft)	Approximate Boring Depth (ft bgs)	Approximate Top of Screen (ft bgs)	Approximate Bottom of Screen (ft bgs)	Total Well Depth (to Bottom of Screen) (ft btoc)	Screened Interval Length (ft)	Top of Screen (ft msl)	Bottom of Screen (ft msl)	Well Type
Abandoned Wells																
BR-01 (Notes 5, 8)	1144532.00	650300.00	September 1987	892.60	897.46	4.9	5.0	0.1	311	291	311	315.9	20	601.60	581.60	Bedrock
BR-02 (Notes 5, 8)	1144543.00	649841.00	September 1987	861.60	865.22	3.6	2.9	0.7	181	161	181	184.6	20	700.60	680.60	Bedrock
BR-03 (Notes 5, 8)	1145042.00	649834.00	September 1987	825.70	827.58	1.9	2.5	0.7	258	238	258	259.9	20	587.70	567.70	Bedrock
BR-04 (Note 8)	1145636.18	649592.91	December 1987	788.74	790.74	2.5	1.8	0.7	220	200	220	222.5	20	588.74	568.74	Bedrock
BR-05 (Notes 4, 8)	1146159.42	648852.23	February 1988	763.30	764.10	0.8	0.8	0.0	224	129	149	149.8	20	634.30	614.30	Bedrock
CB-08 (Note 5)	1145411.00	650082.00	October 1980	803.80	804.77	1.0	NA	NA	26	17	22	23.0	5	786.80	781.80	Abandoned
CB-08-C1 (Note 5)	1145406.00	650077.00	October 1980	803.90	805.77	1.9	NA	NA	41	36	41	42.9	5	767.90	762.90	Abandoned
CB-09 (Note 5)	1144961.00	650152.00	October 1980	837.10	839.05	1.9	NA	NA	42	37	42	43.9	5	800.10	795.10	Abandoned
CB-10 (Note 5)	1145336.00	650084.00	October 1980	808.00	809.85	1.9	NA	NA	34	16	21	22.9	5	792.00	787.00	Abandoned
CB-26 (Note 5)	1145250.00	650128.00	October 1980	816.40	818.37	2.0	NA	NA	16	11	16	18.0	5	805.40	800.40	Abandoned
CB-33 (Note 5)	1145385.00	650082.00	October 1980	805.00	807.08	2.1	NA	NA	45	40	45	47.1	5	765.00	760.00	Abandoned
CB-53 (Note 5)	1145545.60	650254.24	May 1985	798.22	800.62	2.4	NA	NA	50	44	49	51.4	5	754.22	749.22	Abandoned
CB-54 (Note 5)	1145558.00	650189.00	May 1985	794.70	796.89	2.2	NA	NA	30	24	29	31.2	5	770.70	765.70	Abandoned
CB-55 (Notes 1 & 2)	1145528.40	650115.21	May 1985	795.15	795.48	0.3	NA	NA	50	40	45	45.3	5	755.15	750.15	Abandoned
CB-55-SH (Note 5)	1145521.00	650114.00	May 1985	794.80	796.75	2.0	NA	NA	24	19	24	26.0	5	775.80	770.80	Abandoned
DMW-PROD	11486979.07	649524.63	Pre-1995 (estimated)	NS	NS	NA	NA	NA	958	100	958	NA	858	NA	NA	Abandoned
DOP-01 (Note 8)	1147424.61	648964.03	October 1992	743.80	747.49	3.7	2.4	1.3	300	265	290	293.7	25	478.80	453.80	Residuum
IW-14	1146387.68	650322.26	Pre-1995 (estimated)	753.65	754.95	1.3	NA	NA	46	1	46	47.3	45	752.65	707.65	Abandoned
MW-01 (Note 8)	1145104.14	650901.37	Pre-1995 (estimated)	NS	868.72	NA	NA	NA	62	47 and 57	52 and 62	NA	5 and 5	NA	NA	Residuum
MW-01A (Note 8)	1145095.00	651231.00	May 1985	NS	884.49	NA	NA	NA	56	51	56	NA	5	NA	NA	Residuum
MW-02 (Note 4)	1146152.48	651509.56	Pre-1995 (estimated)	774.63	777.05	2.4	NA	NA	43	38	43	45.4	5	736.63	731.63	Abandoned
MW-03 (Note 4)	1145959.19	651106.36	Pre-1995 (estimated)	789.50	791.00	1.5	NA	NA	73	58 and 68	63 and 73	NA	5 and 5	NA	NA	Abandoned
MW-07 (Note 8)	1147637.00	649173.00	Pre-1995 (estimated)	741.00	744.18	3.2	2.1	1.1	24	19	24	27.2	5	722.00	717.00	Residuum
MW-09 (Note 4)	1147320.00	648809.00	Pre-1995 (estimated)	748.10	750.02	1.9	NA	NA	28	23	28	29.9	5	725.10	720.10	Abandoned
MW-11 (Note 8)	1146061.00	651309.00	May 1985	NS	783.74	NA	NA	NA	29	24	29	NA	5	NA	NA	Residuum
MW-12 (Note 8)	1146004.00	651179.00	May 1985	NS	785.77	NA	NA	NA	28	23	28	NA	5	NA	NA	Residuum
MW-13 (Note 8)	1145913.00	650962.00	May 1985	NS	782.24	NA	NA	NA	29	24	29	NA	5	NA	NA	Residuum
MW-20	1147142.00	648862.00	June 1986	NS	752.43	NA	NA	NA	24	19	24	NA	5	NA	NA	Abandoned
MW-22	NA	NA	Pre-1995 (estimated)	NS	NS	NA	NA	NA	24	19	24	NA	5	NA	NA	Abandoned
OW-01 (Notes 5, 8)	1145248.00	650002.00	Pre-1995 (estimated)	811.20	812.71	1.5	1.3	0.3	26	21	26	26.5	5	791.20	786.20	Residuum
OW-05 (Notes 5, 8)	1146017.00	650148.00	Pre-1995 (estimated)	770.70	773.02	2.3	2.3	0.1	65	60	65	67.3	5	710.70	705.70	Residuum
OW-06 (Note 5)	1146226.77	650659.00	May 1985	787.00	788.71	1.7	NA	NA	43	38	43	44.7	5	749.00	744.00	Abandoned
OW-07 (Notes 5, 8)	1146355.13	650587.56	May 1985	781.20	785.82	4.6	4.5	0.1	43	38	43	47.6	5	743.20	738.20	Residuum
OW-08	1146604.44	650304.69	May 1985	NA	NA	NA	NA	NA	24	19	24	NA	5	NA	NA	Abandoned
OW-09 (Note 8)	1146931.00	650471.00	Pre-1995 (estimated)	736.30	738.36	2.1	2.0	0.1	40	33	38	40.1	5	703.30	698.30	Residuum
OW-11 (Notes 5, 8)	1145210.00	650158.00	October 1980	824.70	825.36	0.7	0.8	0.2	14	9	14	14.7	5	815.70	810.70	Residuum
OW-12 (Notes 5, 8)	1145139.00	650192.00	October 1980	831.60	835.34	3.7	3.3	0.4	34.5	29.5	34.5	38.2	5	802.10	797.10	Residuum
OW-13 (Notes 5, 8)	1145686.00	650472.00	October 1980	802.10	805.16	3.1	1.6	1.5	43	38	43	46.1	5	764.10	759.10	Residuum
OW-14 (Notes 5, 8)	1145608.00	650229.00	October 1980	803.30	806.98	3.7	3.5	0.1	46	41	46	49.7	5	762.30	757.30	Residuum
OW-16 (Notes 5, 8)	1145916.00	650209.00	December 1987	777.50	781.51	4.0	3.9	0.1	30	25	30	34.0	5	752.50	747.50	Residuum
OW-17 (Notes 5, 8)	1145606.00	650417.00	December 1987	810.30	812.29	2.0	2.1	0.1	40	35	40	42.0	5	775.30	770.30	Residuum
OW-18 (Note 8)	1147233.23	648906.40	October 1985	747.52	750.47	3.0	2.8	0.1	27.5	22	27	30.0	5	725.52	720.52	Residuum
OW-20 (Note 8)	1147295.14	649018.61	October 1985	744.80	747.62	2.8	2.5	0.3	23	15	20	22.8	5	729.80	724.80	Residuum
OW-21	1147523.72	649204.87	June 1986	739.10	742.83	3.7	NA	NA	36	26	36	39.7	10	713.10	703.10	Abandoned
OW-23 (Note 8)	1147323.02	649067.29	June 1986	744.40	747.53	3.1	2.8	0.4	23	18	23	26.1	5	726.40	721.40	Residuum
OW-25 (Note 8)	1145442.89	649908.69	Pre-1995 (estimated)	797.71	800.21	2.5	1.8	0.7	35	30	35	37.5	5	767.71	762.71	Residuum
OWR-01D (Note 8)	1147697.00	649884.00	June 1998	737.50	739.59	2.1	2.0	0.1	65	55	65	67.1	10	682.50	672.50	Residuum
OWR-02D (Note 8)	1146850.00	648703.00	June 1998	754.70	756.99	2.3	2.3	0.0	110	98	108	110.3	10	656.70	646.70	Residuum
OWR-03D (Note 8)	1146478.00	649093.00	June 1998	757.50	759.76	2.3	2.1	0.2	65	55	65	67.3	10	702.50	692.50	Residuum

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RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Northing (Note 3)	Easting (Note 3)	Date Installed	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Stick-up (Elevations) (ft) (Note 6)	Stick-up (Measured) (ft) (Note 7)	Stick up Difference (ft)	Approximate Boring Depth (ft bgs)	Approximate Top of Screen (ft bgs)	Approximate Bottom of Screen (ft bgs)	Total Well Depth (to Bottom of Screen) (ft btoc)	Screened Interval Length (ft)	Top of Screen (ft msl)	Bottom of Screen (ft msl)	Well Type
Abandoned Wells (Continued)																
OWR-04D (Note 8)	1147481.00	649130.00	May 1998	741.90	746.03	4.1	2.1	2.0	80	70	80	84.1	10	671.90	661.90	Residuum
OWR-05D (Note 8)	1145694.00	650482.00	June 1998	802.40	804.93	2.5	2.0	0.5	68	58	68	70.5	10	744.40	734.40	Residuum
OWR-06D	1147190.00	650283.00	June 1998	734.50	736.79	2.3	2.1	0.2	65	55	65	67.3	10	679.50	669.50	Residuum
OWR-07D (Note 8)	1145807.00	648474.00	May 1998	772.10	774.49	2.4	2.0	0.4	65	55	65	67.4	10	717.10	707.10	Residuum
OWR-08S (Note 8)	1147145.00	648846.00	June 1998	752.90	755.17	2.3	2.3	0.0	35	25	35	37.3	10	727.90	717.90	Residuum
P-11-C	NA	NA	October 1980	NS	854.59	NA	NA	NA	75	70	75	NA	5	NA	NA	Abandoned
P-12-C	NA	NA	October 1980	NS	792.93	NA	NA	NA	40	35	40	NA	5	NS	NS	Abandoned
P-7-C	NA	NA	October 1980	NS	874.64	NA	NA	NA	70	65	70	NA	5	NS	NS	Abandoned
PZ-01 (Note 4)	1147144.16	648840.91	April 1991	753.08	754.92	1.8	NA	NA	52	45	50	51.8	5	708.08	703.08	Abandoned
PZ-02 (Note 4)	1147175.00	648893.30	April 1991	751.28	753.46	2.2	NA	NA	51	45	50	52.2	5	706.28	701.28	Abandoned
PZ-02A (Note 4)	1147170.46	648888.48	September 1991	751.85	753.05	1.2	NA	NA	35	28	33	34.2	5	723.85	718.85	Abandoned
PZ-03 (Note 4)	1147235.16	648965.57	April 1991	748.97	750.97	2.0	NA	NA	50.5	43.6	48.6	50.6	5	705.37	700.37	Abandoned
PZ-03A (Note 4)	1147235.06	648968.94	September 1991	748.69	750.69	2.0	NA	NA	34	28	33	35.0	5	720.69	715.69	Abandoned
PZ-04 (Note 4)	1147266.52	649019.69	April 1991	747.80	750.47	2.7	NA	NA	53.5	45	50	52.7	5	702.80	697.80	Abandoned
PZ-04A (Note 4)	1147267.65	649024.11	September 1991	747.73	749.73	2.0	NA	NA	31	25	30	32.0	5	722.73	717.73	Abandoned
PZ-04B (Note 4)	1147257.90	649007.00	September 1991	748.00	750.00	2.0	NA	NA	34	28	33	35.0	5	720.00	715.00	Abandoned
PZ-04C (Note 4)	1147249.04	648995.02	September 1991	748.53	750.35	1.8	NA	NA	34	28	33	34.8	5	720.53	715.53	Abandoned
PZ-05 (Note 4)	1147305.47	649087.47	April 1991	746.58	749.00	2.4	NA	NA	50.2	45	50	52.4	5	701.58	696.58	Abandoned
PZ-05A (Note 4)	1147306.28	649091.23	September 1991	746.22	748.22	2.0	NA	NA	27	21	26	28.0	5	725.22	720.22	Abandoned
PZ-06 (Note 4)	1147350.80	649162.93	April 1991	745.85	747.52	1.7	NA	NA	55	45	50	51.7	5	700.85	695.85	Abandoned
PZ-06A (Note 4)	1147348.68	649165.40	September 1991	745.53	747.20	1.7	NA	NA	30	24	29	30.7	5	721.53	716.53	Abandoned
PZ-07 (Note 4)	1147387.90	649233.41	April 1991	744.85	746.85	2.0	NA	NA	55	45	50	52.0	5	699.85	694.85	Abandoned
PZ-08 (Notes 4, 8)	1147442.42	649465.87	April 1991	747.84	750.51	2.7	2.6	0.1	49.9	44.9	49.9	52.6	5	702.94	697.94	Residuum
PZ-09 (Notes 4, 8)	1147132.36	649094.63	April 1991	747.38	749.71	2.3	2.2	0.2	55	35	40	42.3	5	712.38	707.38	Residuum
PZ-10 (Notes 4, 8)	1147012.08	648800.95	April 1991	753.98	756.06	2.1	2.3	0.2	55	45	50	52.1	5	708.98	703.98	Residuum
PZ-11 (Notes 4, 8)	1147283.97	648581.81	April 1991	749.09	750.71	1.6	1.5	0.1	50	40	45	46.6	5	709.09	704.09	Residuum
PZ-17C	1145032.26	650121.87	October 1980	823.30	825.64	2.3	NA	NA	31	26	31	33.3	5	797.30	792.30	Abandoned
PZ-20B (Note 4)	1147144.21	648896.65	Pre-1995 (estimated)	751.87	754.08	2.2	NA	NA	25	NA	NA	NA	NA	NA	NA	Abandoned
PZR-01 (Note 8)	1145640.00	650398.00	June 1998	804.40	806.91	2.5	2.0	0.5	60	40	60	62.5	20	764.40	744.40	Residuum
PZR-02 (Note 8)	1145685.00	650464.00	June 1998	803.50	805.86	2.4	2.0	0.4	60	40	60	62.4	20	763.50	743.50	Residuum
PZR-03 (Note 8)	1145699.00	650508.00	June 1998	802.40	805.05	2.6	2.0	0.6	61	41	61	63.7	20	761.40	741.40	Residuum
PZR-04 (Note 8)	1145717.00	650531.00	June 1998	801.50	803.94	2.4	NA	NA	60	40	60	62.4	20	761.50	741.50	Residuum
PZR-05 (Note 8)	1146377.00	650315.00	June 1998	753.30	755.73	2.4	1.9	0.5	46	26	46	48.4	20	727.30	707.30	Residuum
PZR-06 (Note 8)	1146344.00	650252.00	June 1998	754.90	757.09	2.2	1.9	0.3	46	26	46	48.2	20	728.90	708.90	Residuum
SA-06 (Notes 4, 8)	1145716.25	651609.36	October 1980	813.56	815.56	2.0	3.1	1.1	50	45	50	52.0	5	768.56	763.56	Residuum
SA-22 (Notes 4, 8)	1145948.64	651103.33	October 1980	790.00	792.84	2.8	3.6	0.8	24	18	23	25.8	5	772.00	767.00	Residuum
SA-64 (Notes 4, 8)	1147406.02	648641.11	Pre-1995 (estimated)	746.23	748.65	2.4	2.0	0.4	24	19	24	26.4	5	727.23	722.23	Residuum
SA-85 (CB-85) (Notes 5, 8)	1147479.00	649972.00	Pre-1995 (estimated)	733.80	736.37	2.6	2.8	0.2	40	35	40	42.6	5	698.80	693.80	Residuum
SBP-01 (Note 8)	1146863.48	648695.95	August 1992	755.55	758.17	2.6	2.5	0.1	157	137	152	154.6	15	618.55	603.55	Bedrock
SBP-02 (Note 8)	1147132.39	649190.70	July 1992	747.07	749.40	2.3	2.3	0.0	140	123	138	140.3	15	624.07	609.07	Bedrock
SBP-03 (Note 8)	1147578.15	649183.78	August 1992	740.60	744.41	3.8	2.3	1.6	102	90	100	103.8	10	650.60	640.60	Bedrock
SBP-04 (Note 8)	1146471.57	649111.31	September 1992	758.97	761.30	2.3	2.3	0.0	147.5	130	145	147.3	15	628.97	613.97	Bedrock
SBP-05 (Note 8)	1147087.09	648744.38	November 1992	753.55	755.88	2.3	3.0	0.7	140	128	138	140.3	10	625.55	615.55	Bedrock
T-5 (Note 8)	1146124.36	650076.51	October 2006	765.09	767.16	2.1	2.0	0.0	145	118	128	130.1	10	647.09	637.09	Bedrock
T-8	1148356.55	650241.87	April 2008	724.65	727.59	2.9	2.9	0.0	25	15	25	27.9	10	709.65	699.65	Abandoned
T-12	1148436.92	650149.56	April 2008	724.88	727.88	3.0	3.0	0.0	28	18	28	31.0	10	706.88	696.88	Abandoned
T-13	1148354.67	654352.57	August 2010	711.22	714.25	3.0	3.0	0.0	35	24	34	37.0	10	687.22	677.22	Abandoned
T-14	1146450.19	655874.83	August 2010	678.97	681.69	2.7	2.7	0.0	17	10	17	19.7	7	668.97	661.97	Abandoned
T-15	1144643.05	656977.08	August 2010	667.36	670.32	3.0	3.0	0.0	18	10	18	21.0	8	657.36	649.36	Abandoned

GSI ENVIRONMENTAL

APPENDIX A
WELL CONSTRUCTION SPECIFICATIONS

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Well ID	Northing (Note 3)	Easting (Note 3)	Date Installed	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Stick-up (Elevations) (ft) (Note 6)	Stick-up (Measured) (ft) (Note 7)	Stick up Difference (ft)	Approximate Boring Depth (ft bgs)	Approximate Top of Screen (ft bgs)	Approximate Bottom of Screen (ft bgs)	Total Well Depth (to Bottom of Screen) (ft btoc)	Screened Interval Length (ft)	Top of Screen (ft msl)	Bottom of Screen (ft msl)	Well Type
Abandoned Wells (Continued)																
T-17	1130535.33	658846.48	January 2012	605.81	605.46	-0.3	NA	NA	14	3.5	13.5	13.2	10	602.31	592.31	Abandoned
WEL-02 (Note 8)	1145721.67	648436.57	April 1994	773.68	775.35	1.7	1.5	0.1	31	18.5	28.5	30.2	10	755.18	745.18	Residuum
WEL-03 (Note 8)	1145905.50	648498.69	April 1994	769.40	771.73	2.3	2.4	0.0	32	19.5	29.5	31.8	10	749.90	739.90	Residuum

Notes:
1. Well locations are shown on Figure 2.
2. ft = Feet — NA = Not Available
   ft bgs = Feet Below Ground Surface — NS = Not Surveyed
   ft btoc = Feet Below Top of Casing — RFI = Resource Conservation Recovery Act (RCRA) Facility Investigation
   ft msl = Feet Above Mean Sea Level — SSSMA = South Staging and Soil Management Area
3. Northing and Easting reported for State Plane Alabama East (FIPS 0101 Feet)
4. Stick-up estimated based on ground surface elevation.
5 Ground surface around well may have been modified after well installed. Ground surface elevation reflects most recent measured elevation.
6 Stick-up measurement based on well construction logs or difference between top of casing and ground elevation where indicated.
7 Stick-up measurement taken on October 2007, except for T-7 to T-12 (October 2008) and T-13 to T-15 (August 2010).
8 Well plugged and abandoned between June and September 2021.

2022 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia Inc. Anniston, Alabama

RCRA Post-Closure Permit ALD 004 019 048

Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDIX B

Appendix B. Purging Logs

APRIL 2022 PURGING LOGS

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GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 4/4/22 | Personnel: JA, EGK, AJV

Project: Ahmiston Spring GW Sampling | Client: Solvita | Page: 1 of 2

Well ID: MW-11A | Starting Water Level: 89.35 | Time: 1550

Total Depth: 112.38 | Ending Water Level: 89.81 | Time: 1724

Purging Time On: 1603 | Evacuation Method: dedicated bladder pump

Off: 1724 | Volume in Well (gallons): 3.69 gallons

Well Depth: 115 ft btoc | Evacuation Rate (gal/min): 0.08 gal/min

Screen Depth: 109-114 ft btoc | Total Volume Removed (gallons): ~6.5 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1603	89.85	600	16.77	7.93	109	261	6.18	14.8	partly cloudy, no odor
1606	89.85	200	17.01	7.14	120	266	3.78	54.2	"
1609	89.75	200	16.92	7.02	171	266	3.80	59.2	"
1612	89.69	200	16.88	6.98	212	264	3.70	65.7	"
1615	89.72	200	16.80	6.96	275	261	3.77	62.9	"
1618	89.69	200	16.78	6.97	348	259	3.86	59.1	"
1621	89.55	225	18.06	7.01	399	262	3.82	34.3	"
1630	89.62	225	16.91	7.24	396	257	3.80	56.5	"
1633	89.71	225	16.86	7.11	260	258	3.93	58.5	"
1636	89.72	225	16.84	7.12	207	256	3.98	57.3	"
1639	89.63	200	16.80	7.10	151	257	3.85	54.4	"
1642	89.58	200	16.77	7.19	91.9	257	3.86	52.2	"
1645	90.30	200	16.75	7.24	76.3	255	3.70	45.3	clear, no odor
1648	89.75	150	17.14	7.25	71.0	256	3.65	45.5	
1651	89.83	200	16.70	7.27	75.4	254	4.05	44.0	white particles, no odor
1654	89.85	200	16.76	7.26	58.9	253	3.97	45.1	clear, no odor
1657	89.90	200	16.87	7.26	64.9	255	3.80	41.3	"
1700	89.82	200	16.75	7.28	132	253	3.76	37.1	partly cloudy, no odor

fix discharge and pressure settings

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

OPM3
~150 ft pressure
11.0 sec / 9 sec

OPM2
~150 ft pressure
15 sec / 15 sec

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 60122 Date: 4/4/22 Personnel: JA, EGK, AJV

Project: Anniston Spring GW Sampling Client: Solutia Page: 2 of 2

Well ID: MW-11A Starting Water Level: Time:

Total Depth: Ending Water Level: Time:

Purging Time: On: Evacuation Method: see page 1

Off: Volume in Well (gallons):

Well Depth: Evacuation Rate (gal/min):

Screen Depth: Total Volume Removed (gallons):

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1703	89.89	175	16.88	7.24	112	253	3.75	39.4	partly cloudy, no odor
1706	89.91	225	16.85	7.30	80	253	3.73	40.7	"
1709	89.88	225	16.70	7.28	66.3	253	3.77	41.8	clear, no odor
1712	89.85	200	16.73	7.25	52.2	256	3.76	48.6	"
1715	89.78	200	16.67	7.25	40.5	255	3.77	48.0	"
1718	89.80	200	16.64	7.24	32.5	255	3.77	47.7	"
1721	89.75	250	16.67	7.25	31.0	255	3.78	47.3	"
1724	89.81	250	16.61	7.25	31.3	254	3.76	46.4	"

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 4/5/22 | Personnel: JA, AJV

Project: Spring GW Sampling | Client: Solvita | Page: 1 of 1

Well ID: MW-20A | Starting Water Level: 8.14 | Time: 1320

Total Depth: 25.60 | Ending Water Level: 17.97 | Time: 1347

Purging Time On: 1323 | Evacuation Method: dedicated bladder pump

Off: 1347 | Volume in Well (gallons): 2.7 gal

Well Depth: 25.3 ft bgs JA | Evacuation Rate (gal/min): 0.167 gal/min

Screen Depth: 19-24 ft bgs | Total Volume Removed (gallons): ~4 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1323	11.49	200	18.50	6.92	36.0	1254	1.61	113.3	slightly cloudy, none
1326	12.70	400	18.20	6.93	26.4	1252	0.62	106.6	clear, none
1329	13.36	400	18.21	6.92	23.2	1253	0.53	106.5	" "
1332	14.45	400	18.21	6.93	19.0	1254	0.41	102.3	" "
1335	15.60	400	18.23	6.92	15.6	1254	0.35	99.5	" "
1338	16.18	400	18.24	6.89	14.5	1254	0.34	100.4	" "
1341	17.02	400	18.34	6.90	11.5	1255	0.32	93.3	" "
1344	18.02	400	18.43	6.91	11.4	1255	0.30	89.2	" "
1347	17.97	300	18.44	6.89	10.5	1256	0.31	87.9	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

CPM 4
- 20-30 ft of pressure
- 3 scc discharge

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 0122 | Date: 4/5/2022 | Personnel: JA, AJV

Project: Spring GW Sampling | Client: Solitia | Page: 1 of 1

Well ID: MW-13A | Starting Water Level: 88.49 | Time: 1625

Total Depth: 115.09 | Ending Water Level: 89.52 | Time: 1656

Purging Time: On: 1635 | Evacuation Method: dedicated bladder pump

Off: 1656 | Volume in Well (gallons): 3.87 gallons

Well Depth: 112.7 ft bgs | Evacuation Rate (gal/min): 0.12 gallon/min

Screen Depth: 105-110 ft bTOC | Total Volume Removed (gallons): 2.5 gallon

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1635	88.91	200	17.05	7.94	0.91	362	5.35	77.4	clear, no odor
1638	88.95	200	17.24	6.96	0.69	362	5.87	79.4	" "
1641	89.10	200	16.98	6.82	0.48	361	5.11	90.8	" "
1644	89.14	200	16.94	6.85	0.41	371	4.09	95.2	" "
1647	89.30	200	16.89	6.86	0.70	384	3.60	98.0	" "
1650	89.38	200	16.88	6.87	0.43	392	3.36	99.9	" "
1653	89.45	200	16.87	6.89	0.56	397	3.26	101.8	" "
1656	89.52	200	16.86	6.89	0.29	400	3.22	103.5	

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6123 | Date: 4/6/22 | Personnel: JA AJV

Project: Spring GW Sampling | Client: Solvay | Page: 1 of 1

Well ID: OWR-14D | Starting Water Level: 67.03 | Time: 1020

Total Depth: 82.25 | Ending Water Level: 69.47 | Time: 1057

Purging Time On: 1027 | Evacuation Method: portable bladder pump

Off: 1057 | Volume in Well (gallons): 2.24 gallons

Well Depth: 81 ft bgs | Evacuation Rate (gal/min): 0.05 gal/min

Screen Depth: 69-79 ft bgs | Total Volume Removed (gallons): ~1.5 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1027	67.37	200	20.90	7.75	6.69	613	4.60	-15.9	clear, no odor
1030	67.81	200	20.35	7.28	7.01	609	2.66	7.7	" "
1033	68.16	200	20.12	7.11	8.11	608	2.19	21.1	" "
1036	68.46	200	20.09	7.09	7.19	608	1.97	23.8	" "
1039	68.51	200	20.03	7.11	9.6	610	1.70	25.6	" "
1042	68.81	200	20.00	7.04	9.8	610	1.69	25.9	" "
1045	69.14	150	20.09	7.09	10.4	609	1.30	27.3	" "
1048	69.24	150	20.02	7.14	9.42	607	1.36	29.0	" "
1051	69.27	100	20.01	7.17	7.38	605	1.04	28.9	" "
1054	69.30	175	19.96	7.19	6.75	604	0.94	28.5	" "
1057	69.47	200	20.03	7.13	6.94	601	0.96	26.7	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6123 | Date: 4/6/22 | Personnel: JA

Project: Spring GW sampling | Client: Solvita | Page: 1 of 1

Well ID: T-18 | Starting Water Level: 4.39 | Time: 1527

Total Depth: 26.61 | Ending Water Level: 14.64 | Time: 1646

Purging Time: On: 1543 | Evacuation Method: portable bladder pump

Off: 1646 | Volume in Well (gallons): 3.41 gallons

Well Depth: 25.7 ft btoc | Evacuation Rate (gal/min): 0.03 gal/min

Screen Depth: 16-26 ft bgs | Total Volume Removed (gallons): ~2 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1543	NM	200	20.44	6.27	NM	264	13.15	35.7	slightly cloudy/no odor
— stopped pump, bubbles/foam coming out of the well, reassemble pump - one o-ring was missing									
1604	7.65	200	21.01	5.97	>1000	255	6.59	54.5	very cloudy/no odor
1607	8.75	200	20.50	5.71	>1000	250	6.13	70.6	very cloudy/no odor
1610	10.19	100	20.97	5.52	>1000	247	6.02	82.3	" "
1613	10.36	100	21.16	5.53	>1000	247	5.78	81.4	" "
1616	10.55	100	21.16	5.54	>1000	248	5.57	80.9	" "
1619	10.71	100	21.08	5.57	839	249	5.32	79.6	" "
1622	11.02	100	21.18	5.59	727	249	5.03	78.5	less cloudy/no odor
1625	11.16	100	21.21	5.75	660	249	4.95	77.4	" "
1628	11.54	150	21.15	5.72	580	249	4.94	76.7	" "
1631	12.20	150	20.66	5.70	510	248	5.80	76.5	" "
1634	12.62	150	20.70	5.77	450	248	5.86	77.4	" "
1637	13.10	150	20.73	5.72	342	249	6.02	77.3	" "
1640	13.76	150	20.76	5.74	289	249	6.08	77.0	" "
1643	14.40	150	20.74	5.75	306	250	6.10	77.5	" "
1646	14.64	150	20.70	5.79	315	250	6.05	77.2	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:
An o-ring was missing when pump was first introduced. Created air bubbles in well. The issue was resolved when replacing o-ring.

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6123 | Date: 4/7/22 | Personnel: JA

Project: Spring GW Sampling | Client: Solotia | Page: 1 of 1

Well ID: OWR-13 | Starting Water Level: 15.46 | Time: 910

Total Depth: 38.92 | Ending Water Level: 15.56 | Time: 948

Purging Time On: 924 | Evacuation Method: portable bladder pump

Off: 948 | Volume in Well (gallons): 3.29 gallons

Well Depth: 36 ft bgs | Evacuation Rate (gal/min): 0.08 gallons/min

Screen Depth: 26-36 ft bgs | Total Volume Removed (gallons): ~2 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
924	15.55	200	19.18	5.48	53.2	213	4.09	69.8	clear/no odor
927	15.56	200	19.35	5.34	47.2	212	3.87	91.8	" "
930	15.59	200	19.34	5.44	32.7	213	3.83	92.8	" "
933	15.62	300	19.48	5.45	28.4	213	3.80	95.7	" "
936	15.59	300	19.53	5.45	17.9	214	3.95	98.7	" "
939	15.62	300	19.56	5.45	11.7	215	3.85	100.9	" "
942	15.63	300	19.59	5.45	7.91	215	3.85	101.6	" "
945	15.58	300	19.56	5.44	8.13	214	3.87	101.7	" "
948	15.56	300	19.54	5.44	6.82	215	3.83	102.9	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

1200
4/5/22

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 60123 | Date: 9/7/22 | Personnel: JA

Project: Spring GW Sampling | Client: Solvita | Page: 1 of 1

Well ID: T-10 | Starting Water Level: 14.32 | Time: 1102

Total Depth: 39.19 | Ending Water Level: 17.57 | Time: 1123

Purging Time On: 11.09 | Evacuation Method: portable bladder pump

Off: 1123 | Volume in Well (gallons): 3.79 gallons

Well Depth: 38 ft bgs | Evacuation Rate (gal/min): 0.067 gal/min

Screen Depth: 25-35 ft bgs | Total Volume Removed (gallons): ~1 gallon

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhoe/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1108	15.00	200	18.05	4.52	13.1	207	4.17	126.8	clear/no odor
1111	15.11	200	18.05	4.33	24.2	206	3.90	141.5	" / "
1114	16.12	175	17.93	3.79	12.2	206	3.85	175.5	" / "
1117	16.95	100	18.05	3.74	8.79	206	3.79	173.6	" / "
1120	17.11	100	18.40	3.76	7.47	206	3.54	175.7	" / "
1123	17.57	100	18.57	3.80	7.80	206	3.46	171.3	" / "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6123 | Date: 4/7/22 | Personnel: JA

Project: Spring GW sampling | Client: Solvita | Page: 1 of 1

Well ID: T-20 | Starting Water Level: 3.98 | Time: 1459

Total Depth: 37.45 | Ending Water Level: 5.21 | Time: 1535

Purging Time: On: 1523 | Evacuation Method: portable bladder pump

Off: 1535 | Volume in Well (gallons): 21.6 gallons

Well Depth: 37.2 ft btoc | Evacuation Rate (gal/min): 0.08 gal/min

Screen Depth: 27.5-37.5 ft bgs | Total Volume Removed (gallons): ~1 gallon

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1523	4.20	200	19.43	3.98	3.95	286	4.74	151.9	clear, no odor
1526	4.46	250	19.26	3.67	2.81	287	4.08	178.2	" "
1529	4.80	250	19.30	3.47	3.23	287	4.02	192.0	" "
1532	5.03	250	19.19	3.44	2.73	287	4.05	195.1	" "
1535	5.21	200	18.79	3.45	2.70	288	4.05	197.6	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:
CPM4
~50 ft pressure
5 sec discharge

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 4/20/22 | Personnel: JA

Project: Spring GW Sampling Event | Client: Solutia | Page: 1 of 1

Well ID: MW-16 | Starting Water Level: 25.28 | Time: 1143

Total Depth: 70.70 | Ending Water Level: 34.63 | Time: 1241

Purging Time On: 1205 | Evacuation Method: dedicated bladder pump

Off: 1241 | Volume in Well (gallons): 7.33 gallons

Well Depth: 71.1 ft btoc | Evacuation Rate (gal/min): 0.053 gal/min

Screen Depth: 58-68 ft bgs | Total Volume Removed (gallons): ~1.9 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1205	27.28	300	19.36	5.34	8.76	64	4.05	75.7	clear greenish/no odor
1208	29.49	250	19.96	4.44	8.03	64	1.39	143.8	" "
1211	29.05	175	19.74	4.62	8.37	59	1.05	141.1	" "
1214	29.70	150	19.32	4.71	9.87	56	1.00	142.6	" "
1217	30.03	175	19.26	4.68	9.83	54	0.96	147.4	" "
1220	30.68	175	19.28	4.63	8.80	53	0.89	152.0	" "
1223	31.21	175	19.30	4.61	8.95	53	0.83	154.6	" "
1226	31.71	175	19.27	4.59	9.38	53	0.78	156.0	" "
1229	32.30	175	19.29	4.60	8.99	51	0.71	158.4	" "
1232	33.05	175	19.35	4.78	9.56	50	0.67	157.7	" "
1235	33.69	200	19.33	4.61	10.0	50	0.66	158.4	" "
1238	34.19	200	19.35	4.62	9.86	50	0.66	158.3	" "
1241	34.63	200	19.44	4.62	9.91	50	0.65	158.0	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:
CPM 4
~90 ft pressure
2.5 gpm discharge

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 4/10/22 | Personnel: JA

Project: Anniston Spring GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-09A | Starting Water Level: 16.05 | Time: 800

Total Depth: 36.22 | Ending Water Level: 16.86 | Time: 837

Purging Time On: 810 | Evacuation Method: dedicated bladder pump

Off: 837 | Volume in Well (gallons): 3.192 gallons

Well Depth: 36 ft btoc | Evacuation Rate (gal/min): 0.074 gal/min

Screen Depth: 23-33 ft btoc | Total Volume Removed (gallons): ~2 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
810	16.55	400	18.23	5.26	49.4	103	4.64	152.5	clear/no odor
813	16.68	150	17.56	5.18	48.9	102	4.51	169.2	" "
816	16.60	200	18.15	5.08	41.3	98	4.49	176.2	" "
819	16.62	200	18.12	5.06	35.2	98	4.41	177.2	" "
822	16.61	200	18.18	5.04	32.3	98	4.52	178.8	" "
825	16.71	300	18.46	5.00	23.5	99	4.42	183.0	" "
828	17.01	300	18.56	5.00	12.9	99	4.49	183.7	" "
831	16.93	200	18.52	5.01	9.80	99	4.45	184.4	" "
834	16.86	200	18.51	4.98	8.74	100	4.43	184.9	" "
837	16.86	200	18.57	4.96	7.43	100	4.42	186.5	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

OPMZ.
~95 ft pressure
4 gpc discharge

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 4/10/22 | Personnel: JA

Project: Anniston Spring GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-03 | Starting Water Level: 7.91 | Time: 925

Total Depth: 30.65 | Ending Water Level: 10.66 | Time: 946

Purging Time On: 928 | Evacuation Method: dedicated bladder pump

Off: 946 | Volume in Well (gallons): 3.03 gallons

Well Depth: 27 ft bgs/30.6 ft btoc | Evacuation Rate (gal/min): 0.055 gal/min

Screen Depth: 22 - 27 ft bgs | Total Volume Removed (gallons): ~1 gallon

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
928	9.30	300	17.06	6.14	25.3	327	3.75	132.0	clear/no odor
931	10.20	200	17.32	6.18	46.7	340	2.04	132.7	" "
934	10.26	200	17.42	6.17	45.7	339	1.91	132.9	" "
937	10.31	150	17.27	6.12	50.4	340	1.94	132.4	" "
940	10.50	200	17.31	6.14	67.5	340	1.76	132.9	" "
943	10.61	200	17.38	6.12	67.0	340	1.70	133.4	" "
946	10.66	200	17.40	6.12	70.3	340	1.66	133.4	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:
OPM 4
~70 ft pressure
2.5 sec discharge

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 4/10/22 | Personnel: JA

Project: Anniston Spring GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: OW-22 | Starting Water Level: 12.44 | Time: 1056

Total Depth: 39.44 | Ending Water Level: 16.30 | Time: 1133

Purging Time: On: 1100 | Evacuation Method: dedicated bladder pump

Off: 1133 | Volume in Well (gallons): 4.04 gallons

Well Depth: 37.7 ft btoc | Evacuation Rate (gal/min): 0.076 gal/min

Screen Depth: 24-34 ft bgs | Total Volume Removed (gallons): ~2.5 gallons

2.57

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1100	14.09	400	18.96	5.04	143	79	~~188.0~~ 3.4	188.0	slightly cloudy / no odor
1103	14.61	200	19.12	4.78	284	78	2.25	204.0	" / "
1106	15.03	200	19.08	4.63	315	78	2.14	210.5	" / "
1109	15.39	200	19.10	4.51	270	78	2.06	215.4	" / "
1112	15.72	175	19.07	4.40	205	78	1.98	219.7	" / "
1115	15.94	200	19.06	4.39	156	78	1.95	219.9	" / "
1118	16.01	200	19.05	4.39	121	78	1.95	220.3	" / "
1121	16.10	200	19.13	4.34	86.0	78	1.92	221.6	" / "
1124	16.11	200	19.18	4.33	72.1	78	1.90	222.0	" / "
1127	16.19	200	19.23	4.33	59.6	78	1.87	222.4	clear / no odor
1130	16.25	200	19.25	4.33	63.8	77	1.87	222.0	" / "
1133	16.30	200	19.35	4.36	63.2	77	1.86	221.8	" / "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:
CPM4
~80 ft pressure
2.5 sec discharge

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 60123 | Date: 4/10/22 | Personnel: JA

Project: Annistan Spring Sampling | Client: Solutia | Page: 1 of 1

Well ID: T-04 | Starting Water Level: 9.19 | Time: 1429

Total Depth: 26.31 | Ending Water Level: 9.90 | Time: 1526

Purging Time On: 1456 | Evacuation Method: portable bladder pump

Off: 1526 | Volume in Well (gallons): 2.66 gallons

Well Depth: 25.8 ft btoc | Evacuation Rate (gal/min): 0.083 gal/min

Screen Depth: 15-25 ft bgs | Total Volume Removed (gallons): ~2.5 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1456	9.75	200	20.81	7.15	50.7	221	9.56	151.9	clear/no odor
1459	9.75	200	18.75	7.01	46.7	220	8.79	162.6	" "
1502	9.75	200	18.44	6.88	62.0	219	8.89	171.1	" "
1505	9.80	300	18.46	6.57	41.9	225	8.27	182.2	" "
1508	9.85	300	18.30	6.40	34.9	233	6.52	185.5	" "
1511	9.81	300	18.15	6.32	21.4	237	4.86	186.2	" "
1514	9.80	300	18.18	6.30	16.6	239	3.47	186.3	" "
1517	9.89	300	18.19	6.25	6.06	238	2.46	184.8	" "
1520	9.88	300	18.26	6.33	5.12	238	2.32	184.2	" "
1523	9.89	300	18.14	6.37	4.05	238	2.23	183.5	" "
1526	9.90	300	18.14	6.35	4.20	237	2.20	183.5	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:
OPM 4
~90 ft pressure
5 sec discharge

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6123 Date: 4/11/22 Personnel: JA EGK

Project: Anneston Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: OWR-15D Starting Water Level 13.10 Time: 1015

Total Depth: 66.99 Ending Water Level 19.66 Time: 1055

Purging Time: On: 1025 Evacuation Method: portable bladder pump

Off: 1055 Volume in Well (gallons): 8.54 gallons

Well Depth: 66.5 ft bgs Evacuation Rate (gal/min): 0.05 gallons/minute

Screen Depth: 56.5-66.5 ft bgs Total Volume Removed (gallons): ~1.6 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1025	12.72	100	16.28	6.56	11.0	199	6.47	68.6	clear, no odor
1028	13.24	175	16.48	5.49	45.1	186	1.45	90.3	clear, slight odor
1031	14.01	150	16.68	5.00	80.4	184	0.99	126.8	pale yellow, slight odor
1034	14.74	200	16.73	4.77	83.9	183	0.59	142.4	" "
1037	15.72	200	16.89	4.74	76.2	182	0.45	145.9	" "
1040	16.71	200	16.91	4.86	49.2	182	0.40	143.8	" "
1043	17.63	200	16.93	4.89	22.7	179	0.35	142.0	" "
1046	18.09	200	16.89	4.88	11.3	175	0.32	142.4	clear, slight odor
1049	18.61	200	16.92	4.88	8.90	174	0.31	143.1	" "
1052	19.23	200	16.99	4.86	6.00	171	0.30	143.6	" "
1055	19.66	200	17.04	4.86	4.71	169	0.30	143.3	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:
CPM2
~110 ft pressure
1/4 sec discharge

pump set at 61.5 ft bgs

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 4/10/22 | Personnel: EGK, AJV

Project: Anniston GW Spring Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-12A | Starting Water Level: 92.15 | Time: 745

Total Depth: 115.31 | Ending Water Level: 92.58 | Time: 806

Purging Time On: 807 | Evacuation Method: dedicated bladder pump

Off: 820 | Volume in Well (gallons): 5.18

Well Depth: 124.5 | Evacuation Rate (gal/min): 350 mL/min EGK

Screen Depth: 105 - 110 | Total Volume Removed (gallons): 2.0

PURGING DATA AND FIELD PARAMETERS

Depth to water TOC 92.45 <->

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
748	~~92x154~~ 92.54	200	15.27	7.15	0.97	299	8.07	237.2	clear no odor
751	92.45	350	15.49	7.15	2.09	299	7.55	234.8	clear no odor
754	92.45	300	15.78	7.24	2.89	389	4.96	231.6	" "
757	92.51	300	15.87	7.34	2.93	404	4.30	229.6	" "
800	92.55	300	15.89	7.43	3.15	396	4.06	226.1	" "
803	92.58	325	15.93	7.48	2.06	388	3.90	223.9	" "
806	92.58	350	15.91	7.50	1.41	385	3.84	222.8	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

124.5 - 92.15 x .16 = 5.18

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 4/10/22 | Personnel: EGK

Project: Anniston Spring GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-14 | Starting Water Level: 10.00 | Time: 857

Total Depth: 26.65 | Ending Water Level: 14.19 | Time: 939

Purging Time: On: 941 | Evacuation Method: dedicated bladder pump

Off: 1022 | Volume in Well (gallons): 2.24

Well Depth: 24 | Evacuation Rate ~~(gal/min)~~ mL/min: 200

Screen Depth: 19-24 | Total Volume Removed (gallons): 3 EGK

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
903	12.53	200	17.20	6.55	42.8	241	5.75	183.7	clear no odor
906	12.78	300	17.20	6.47	22.9	240	4.50	183.9	" "
909	13.40	225	17.36	6.42	43.8	240	3.68	184.3	" "
912	13.54	150	17.44	6.40	68.6	240	3.52	184.6	" "
915	13.92	200	17.36	6.37	130.0	239	3.31	184.4	" "
918	14.09	200	17.53	6.36	177.0	239	2.91	184.2	slightly cloudy no odor
921	14.08	200	17.60	6.36	196.0	239	2.70	183.9	" "
924	14.06	200	17.58	6.35	250	239	2.57	183.3	cloudy, slightly pink no odor
927	14.08	200	17.71	6.35	266	238	2.38	182.9	" "
930	14.14	200	17.76	6.35	287	239	2.35	182.2	cloudy, no odor
933	14.19	200	17.88	6.34	355	238	2.33	181.6	" "
936	14.19	200	17.77	6.34	354	238	2.29	180.6	" "
939	14.19	200	17.81	6.35	325	238	2.25	180.4	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

CPM 2 pis 50

Discharge 4-5 sec.

24 - 10 = 14 x .16 = 2.24

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 4/10/22 | Personnel: EGK

Project: Anniston Spring GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: OW-21A | Starting Water Level: 12;51 | Time: 1059

Total Depth: 38.01 | Ending Water Level: 22.21 | Time: 1146

Purging Time: On: 1148 | Off: 1306

Well Depth: 35

Screen Depth: 25-35

Evacuation Method: dedicated bladder pump

Volume in Well (gallons): 3.6

Evacuation Rate (~~gal/min~~ mL/min): 100-175

Total Volume Removed (gallons): EGK 3 1.25

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1104	13.42	300	19.02	3.60	8.15	142	3.91	231.7	clear no odor
1107	14.91	300	18.96	3.54	57.4	121	2.48	225.1	clear particles no odor
1110	15.53	225	19.07	3.55	49.4	120	1.99	223.0	clear slight odor
1113	15.83	200	19.21	3.62	40.0	120	1.84	219.3	" "
1116	16.55	200	18.92	3.71	32.8	120	1.66	216.2	" "
1119	17.28	200	18.95	3.76	26.2	122	1.62	213.7	" "
1122	17.81	200	18.93	3.88	26.9	122	1.58	209.5	" "
1125	18.21	200	19.03	3.86	23.1	122	1.55	205.6	" "
1128	18.83	200	19.02	3.99	21.9	121	1.52	200.1	" "
1131	19.18	200	19.04	4.09	20.6	122	1.50	197.4	" "
1134	19.75	200	19.03	4.10	17.7	123	1.49	194.9	" "
1137	20.76	200	19.05	4.13	15.2	124	1.49	193.7	" "
1140	21.13	200	19.15	4.16	13.8	124	1.49	191.2	" "
1143	21.71	175	19.24	4.17	13.2	124	1.51	187.7	" "
1146	22.21	175	19.24	4.23	13.1	124	1.54	185.7	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:
CPM 2
psi 60
Discharge 5
↓
1604
↑
100 3 (for sampling) + water level dropping a lot

35 - 12.51 x .16 = 3.4

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 60123 Date: 4/10/22 Personnel: EGK

Project: Anniston Spring GW Monitoring Client: Solutia Page: 1 of 1

Well ID: WEL-01 Starting Water Level: 4.71 Time: 1427

Total Depth: 34.5 Ending Water Level: 4.85 Time: 1552

Purging Time: On: 1555 Off: 1613

Well Depth: ~~34.5~~ 31.5

Screen Depth: ~~34.5 - 14.5~~ 19-29

Evacuation Method: ~~Redi-Flo2~~ peristaltic pump

Volume in Well (gallons): 4.3

Evacuation Rate (gal/min): mL/min 375 EGK 2.75

Total Volume Removed (gallons):

Sample @ ~~1700~~ 21

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1525	4.82	300	17.24	5.12	26.4	73	2.79	112.8	clear no odor
1528	4.82	375	17.12	4.41	14.3	77	2.77	143.8	clear no odor
1531	4.81	325	17.17	4.29	8.34	80	2.90	151.3	" "
1534	4.82	350	16.97	4.36	9.03	80	2.94	152.5	clear slight odor
1537	4.85	325	16.89	4.42	7.20	81	2.90	153.3	" "
1540	4.85	325	16.90	4.57	7.57	82	2.79	148.2	" "
1543	4.85	350	17.11	4.91	6.24	83	2.71	136.1	" "
1546	4.85	350	17.05	4.99	7.78	85	2.69	135.7	clear no odor
1549	4.84	375	16.97	5.02	9.85	84	2.64	138.2	
1552	4.85	400	16.81	5.03	5.38	84	2.59	141.7	

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater then 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

used peristaltic pump

* Can't tell if smell is just stuck in the cup/bucket from the last stinky well MW-21A

$31.5 - 4.71 \times .16 = 4.3$

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6123 Date: 4/11/22 Personnel: EGK

Project: Anniston GW Sampling Spring Event Client: Solutia Page: 1 of 1

Well ID: OW-10 Starting Water Level 9.82 Time: 730

Total Depth: 37.82 Ending Water Level 14.71 Time: 758

Purging Time: On: 800 Off: 940

Well Depth: 40 Screen Depth: 33-38

Evacuation Method: non-dedicated bladder pump

Volume in Well (gallons): 4.5

Evacuation Rate (gal/min): mL/min 175 EGK

Total Volume Removed (gallons): 1 gal

Sample @ 35.5

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
737	9.96	100	16.90	6.58	121	969	7.01	198.1	pale clear slight odor → yellow
740	10.49	200	17.28	6.45	101	965	5.93	195.5	" "
743	11.30	200	17.69	6.39	85.2	964	5.15	191.6	" "
746	12.42	200	17.74	6.37	48.2	961	4.68	189.4	clear slight odor
749	13.00	200	17.42	6.36	41.9	961	4.87	188.6	" "
752	13.51	175	17.61	6.34	37.7	956	4.68	187.9	clear no odor
755	14.16	175	17.65	6.33	35.4	954	4.57	186.2	" "
758	14.71	175	17.69	6.33	34.3	952	4.40	184.3	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

37.80 - 9.80 x .10 4.48

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 0122 | Date: 4/8/22 | Personnel: EGK

Project: Anniston Spring GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: OW-06A | Starting Water Level: 36.21 | Time: 1509

Total Depth: 52.15 | Ending Water Level: 37.31 | Time: 1536

Purging Time On: 1540 | Evacuation Method: dedicated bladder pump

Off: 1608 | Volume in Well (gallons): 2.05

Well Depth: 49 | Evacuation Rate (gal/min): 300 mL/min

Screen Depth: 39-49 | Total Volume Removed (gallons): 1.75 EGK

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1515	36.90	300	16.48	~~4.59~~ 4.42	4.10	43	4.59	230.1	clear, SM ⅓ LG black particles, no odor
1518	37.06	350	16.77	4.30	7.33	41	6.44	234.2	clear, no odor
1521	37.10	300	16.75	4.71	~~8.72~~ 8.72	41	6.42	242.6	" "
1524	37.11	325	16.76	4.67	6.32	41	6.47	248.0	" "
1527	37.19	300	16.80	4.65	5.60	42	6.43	255.3	" "
1530	37.23	300	16.79	4.60	5.98	42	6.45	263.4	" "
1533	37.21	300	16.80	4.58	6.50	42	6.43	267.7	" "
1536	37.31	300	16.77	4.60	5.16	42	6.40	268.7	" "

TURB = 6.72

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

49 - 36.21 = 2.05
x.16

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 0122 | Date: 4/8/22 | Personnel: EGK

Project: Anniston Spring GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-15 | Starting Water Level: 11.20 | Time: 1146

Total Depth: NM | Ending Water Level: 12.10 | Time: 1227

Purging Time On: 1230 | Evacuation Method: dedicated bladder pump

Off: 1300 | Volume in Well (gallons): 2.5

Well Depth: 27 | Evacuation Rate (gal/min): mL/min 300 EGK

Screen Depth: @ 19-24 | Total Volume Removed (gallons): 2.5

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1200	11.91	300	17.21	5.76	27.3	319	4.89	255.8	clear, no odor
1203	12.00	300	17.28	5.83	25.6	315	4.67	251.8	clear, sm particles, no odor
1206	11.90	300	17.33	5.90	29.4	314	4.60	248.8	" " brown/tan
1209	12.02	300	17.49	6.03	24.2	311	4.55	243.7	" "
1212	11.99	300	17.40	5.98	21.5	308	4.48	244.8	" "
1215	12.09	300	17.52	6.02	19.8	305	4.42	241.5	" "
1218	12.01	300	17.45	6.06	16.2	302	4.44	241.1	" "
1221	12.06	300	17.39	6.04	14.5	300	4.42	240.7	clear no odor
1224	12.01	300	17.45	6.01	13.6	298	4.38	242.5	" "
1227	12.10	300	17.41	6.05	14.4	295	4.40	240.3	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

Open 2
Discharge 8
psi 75

27 - 11.20 x .16 = 2.528

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 0123 | Date: 4/7/22 | Personnel: EGK

Project: Anniston Spring GW Monitoring | Client: Solutia | Page: 1 of 1

Well ID: OWR-11 | Starting Water Level: 8.86 | Time: 1531

Total Depth: 37.45 | Ending Water Level: 11.90 | Time: 1642

Purging Time On: 1645 | Evacuation Method: non-dedicated bladder pump

Off: 1720 | Volume in Well (gallons): 4.18

Well Depth: 35 | Evacuation Rate (gal/min): 0.05

Screen Depth: 25-35 | Total Volume Removed (gallons): 2.5

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1564	9.99	300	18.14	4.29	141	399	7.18	170.4	Slight odor, pinkish/tan
1557	10.50	300	18.06	3.75	118	396	7.03	202.9	Slight odor, light tan
1600	11.05	175	17.84	3.54	81.0	394	6.91	226.0	clear " "
1603	11.12	175	17.91	3.49	68.7	393	6.65	231.0	" "
1606	11.20	175	18.18	3.55	64.7	393	6.53	232.3	" "
1609	11.31	175	18.26	3.58	59.4	392	6.33	237.8	" "
1612	11.42	175	18.24	3.57	53.4	391	6.04	242.9	" "
1615	11.49	170	18.23	3.55	31.8	390	5.78	246.7	clear Slight odor
1618	11.54	175	18.15	3.52	21.5	386	5.39	254.3	" "
1621	11.61	175	18.24	3.57	16.1	384	5.04	257.4	" "
1624	11.66	175	18.22	3.58	15.1	382	4.84	262.2	" "
1627	11.74	175	17.95	3.56	21.1	386	4.87	266.4	" "
1630	11.76	175	18.15	3.51	13.5	383	4.60	273.2	" "
1633	11.78	175	18.00	3.57	9.13	383	4.60	273.4	" "
1636	11.82	175	17.61	3.47	8.89	381	4.47	284.2	" "
1639	11.83	175	17.79	3.48	8.16	380	4.42	284.0	" "
1642	11.90	175	18.12	3.57	9.01	378	4.31	284.1	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 4/7/22 | Personnel: EGK, JA

Project: Anniston Spring GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-01B | Starting Water Level: 26.02 | Time: 904

Total Depth: 63.86 | Ending Water Level: 33.51 | Time: 954

Purging Time: On: 954 | Evacuation Method: ~~MP~~ dedicated bladder pump

Off: 1112 | Volume in Well (gallons): 5.8

Well Depth: 62.5 | Evacuation Rate (gal/min): 100 mL/min

Screen Depth: 57.5-62.5 | Total Volume Removed (gallons): 1.25 EGK

sample @ 62 ft

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
915	27.51	100	15.80	4.96	13.6	26	6.30	299.3	clear no odor
918	27.81	100	15.83	4.18	26.2	24	6.27	326.7	clear no odor
921	28.34	100	15.72	4.01	35.5	23	6.38	326.8	" "
924	28.90	100	15.76	4.06	64.0	22	6.70	317.6	" "
927	29.42	100	15.87	4.15	64.7	21	6.84	309.1	" "
930	29.86	100	15.90	4.19	72.5	21	6.76	307.8	" "
933	30.35	100	15.93	4.20	93.1	21	6.70	308.2	" "
936	30.72	100	15.96	4.18	110.0	21	6.64	307.9	" "
939	31.26	100	16.01	4.27	127.0	21	6.53	307.6	" "
942	31.66	100	16.14	4.28	132.0	21	6.40	307.0	slightly cloudy no odor
945	32.39	100	16.04	4.32	143.0	21	6.40	306.2	" "
948	32.56	100	15.99	4.29	156.0	21	6.37	308.1	" "
951	32.95	100	16.00	4.29	154.0	21	6.31	308.4	" "
954	33.51	100	15.97	4.28	154.0	21	6.29	309.7	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

CPM4
Discharge 3
psi = 110

62.5 - 26.02 x .16 = 5.8

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6123 Date: 4/7/22 Personnel: EGK

Project: Anniston GW Spring Sampling Client: Solutia Page: 1 of 1

Well ID: T-09 Starting Water Level: 12.01 Time: 912

Total Depth: 39.79 Ending Water Level: 13.46 Time: 1003

Purging Time: On: ~~922~~ 1005 Evacuation Method: non-dedicated bladder pump

Off: 1119 Volume in Well (gallons): 4

Well Depth: 37 Evacuation Rate (gal/min): mL/min 275 - 300

Screen Depth: 27 - 37 Total Volume Removed (gallons): EGK 2.0

Sample @ 32 ft

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
924	12.56	100	17.77	6.71	10.4	203	7.38	209.12	clear no odor
927	12.86	250	17.87	5.43	325	217	6.26	222.8	yellow murky no odor
930	13.09	250	17.87	5.50	104	227	5.73	214.8	yellow clearer no odor
933	13.13	250	17.89	5.54	102	234	5.19	209.6	" "
936	13.25	200	17.93	5.56	65.1	238	4.88	207.3	clear no odor
939	13.35	225	17.93	5.60	52.0	244	4.54	203 8	" "
942	13.35	250	17.95	5.64	30.2	251	4.17	199.9	" "
945	13.40	200	17.94	5.59	25.4	252	4.04	201.2	" "
948	13.40	300	17.95	5.62	18.8	252	3.97	198.5	" "
951	13.46	300	17.92	5.57	16.2	252	3.87	199.5	" "
954	13.45	300	17.96	5.62	13.4	252	3.79	197.0	" "
957	13.46	300	17.98	5.63	12.7	251	3.72	194.5	" "
1000	13.40	300	17.97	5.59	11.8	252	3.70	197.0	" "
1003	13.46	275	18.01	5.62	11.6	251	3.60	195.02	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes: Field Duplicate 3

37 - 12.01 x .14 = ~~8~~ 4.00

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 60123 Date: 4/6/22 Personnel: ECK

Project: Anniston GW Spring Sampling Client: Solutia Page: 1 of 1

Well ID: WEL-04 Starting Water Level: 25.51 Time: 1147

Total Depth: 51.05 Ending Water Level: 29.41 Time: 1348

Purging Time: On: 1352 Off: 1413

Well Depth: 47 Screen Depth: 34.5 - 44.5

Evacuation Method: non-dedicated bladder pump

Volume in Well (gallons): 3.44

Evacuation Rate (mL/min or gal/min): 300 EGK

Total Volume Removed (gallons): 2.3

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1313	26.81	300	20.02	5.72	43.0	83	9.84	138.0	clear no odor
1318	26.87	300	18.50	5.49	44.8	81	9.38	160.0	" "
1321	NM	300	18.50	5.47	48.9	81	9.23	162.4	" "
1324	27.1	300	18.46	5.49	40.2	81	9.21	165.9	" "
1327	27.50	300	18.47	5.45	39.5	81	8.85	144.1	" "
1330	27.98	300	18.43	5.43	37.8	81	8.59	170.8	" "
1333	28.20	300	18.49	5.39	35.2	81	8.30	174.3	" "
1336	28.88	300	18.42	5.34	31.8	81	8.12	179.2	" "
1339	28.91	300	18.34	5.28	32.5	80	7.89	183.2	" "
1342	29.14	300	18.33	5.20	31.4	80	7.71	188.3	" "
1345	29.17	300	18.30	5.19	31.8	80	7.45	192.9	" "
1348	29.41	300	18.27	5.17	30.5	80	7.30	194.1	" "

water level acting weird

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

Waiting on Alex to free tubing from air fitting → that's why there is such a time gap

47 - 25.51 x .16 = 3.44

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6123 | Date: 4/6/22 | Personnel: EGK, AJW

Project: Anniston Spring GW sampling | Client: Solutia | Page: 1 of

Well ID: T-16 | Starting Water Level: 78.20 | Time: 1523

Total Depth: 130.57 | Ending Water Level: 78.47 | Time: 1614

Purging Time On: 1614 | Evacuation Method: non-dedicated bladder pump.

Off: 1641 | Volume in Well (gallons): 11.49

Well Depth: 150 | Evacuation Rate (gal/min): mL/min 225 FGK

Screen Depth: 115-125 | Total Volume Removed (gallons): 1.5 gal

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1550	78.29	150	19.85	5.58	7.30	76	7.00	213.2	clear no odor
1553	78.42	225	19.46	5.45	31.20	79	6.53	215.6	clear no odor SM orange particles
1556	78.50	225	19.29	5.55	27.5	83	5.69	209.5	" "
1559	78.52	225	19.24	5.67	18.5	84	5.34	202.3	" "
1602	78.46	225	19.24	5.82	19.5	84	5.01	195.0	" "
1605	78.45	225	19.21	5.94	15.8	84	4.77	188.7	" "
1608	78.47	225	19.19	6.03	16.0	84	4.59	184.8	" "
1611	78.46	225	19.18	6.09	15.8	84	4.45	181.3	" "
1614	78.47	225	19.19	6.10	15.8	84	4.41	178.9	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:
After sampling realized no bladder was ever installed. Due to this DO readings are higher than last year.

150 - 78.20 x .16 = 11.49

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6123 Date: 4/6/22 Personnel: EGK

Project: Anniston Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: OWR-035 Starting Water Level: 8.55 Time: 1000

Total Depth: 37.27 Ending Water Level: 15.91 Time: 1033

Purging Time: On: ~~1000~~ 1035 Evacuation Method: Non dedicated bladder pump

Off: 1050 Volume in Well (gallons): 4.23

Well Depth: 35 Evacuation Rate (~~gal/min~~ mL/min EGK): 200

Screen Depth: ~~25~~ 25-35 Total Volume Removed (gallons): 2.0

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F/°C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1004	9.65	300	19.27	4.30	78.9	123	5.22	232.6	pink, small red particles
1007	10.48	300	19.31	4.21	72.4	122	3.98	237.2	" " no odor
1010	10.95	200	19.25	4.55	59.4	122	3.07	220.8	light pink
1013	11.90	200	19.40	4.52	58.4	120	2.06	226.9	" "
1016	12.39	200	19.46	4.67	52.5	120	1.89	219.8	" "
1019	12.81	200	19.27	4.63	45.3	120	1.71	223.7	" "
1021	13.41	200	19.31	4.61	40.0	119	1.61	225.2	" "
1024	14.30	200	19.29	4.62	43.1	120	1.46	223.5	" "
1027	14.80	200	19.22	4.64	38.2	120	1.39	222.6	very light pink/clear no odor
1030	15.40	200	19.22	4.64	32.8	120	1.31	222.3	" "
1033	15.91	200	19.23	4.67	37.2	119	1.28	220.9	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

35 - 8.55 x .16 = 4.23

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 4/5/22 | Personnel: EGK

Project: Anniston Spring GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: OW-116A | Starting Water Level: 10.55 | Time: 1315

Total Depth: 35.25 | Ending Water Level: 12.80 | Time: ~~1318~~ 1353

Purging Time: On: ~~1320~~ 1355 | Evacuation Method: dedicated bladder pump

Off: 1515 | Volume in Well (gallons): 3.59

Well Depth: 33 | Evacuation Rate (gal/min): mL/min 150 EGK

Screen Depth: 23-33 | Total Volume Removed (gallons): 2.5

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1335 ~~1330~~	12.30	150	16.87	4.90	15.2	174	1.18	223.4	Clear ~~no odor~~ slight odor
1338	12.89	150	16.48	4.85	13.8	170	1.12	228.4	" "
1341	12.56	150	16.62	4.78	13.0	169	1.08	231.8	" "
1344	12.94	150	16.57	4.82	12.3	169	1.04	229.6	" "
1347	12.85	150	16.58	4.86	11.0	167	1.00	228.2	" "
1350	12.79	150	16.65	4.88	12.0	166	0.96	227.7	" "
1353	12.80	150	16.64	4.89	10.1	164	0.94	228.0	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

cpm3 @ 75psi

L> would have liked to get a higher discharge but then it would go crazy & shoot up to 400 mL/min

33 - 10.55 x .16 = 3.59

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 Date: 4/5/22 Personnel: EGK

Project: Anniston GW sampling spring Client: Solutia Page: 1 of 1

Well ID: OW-15 Starting Water Level: 7.97 Time: 1550

Total Depth: 45.03 Ending Water Level: 18.20 Time: 1619

Purging Time: On: 1619 Evacuation Method: dedicated bladder pump

Off: 1729 Volume in Well (gallons): 5.12

Well Depth: 40 Evacuation Rate (mL/min (gal/min)): 200 EGK

Screen Depth: 35-40 Total Volume Removed (gallons): 2.5

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1555	9.26	200	16.73	4.34	3.25	118	10.07	229.9	clear no odor
1558	11.40	175	16.90	4.15	3.22	117	8.25	224.3	" "
1601	12.36	200	16.85	4.40	3.04	117	9.86	199.8	clear slight odor
1604	13.36	200	16.85	4.49	1.65	116	5.84	211.3	" "
1607	14.68	200	16.94	4.68	0.92	116	4.89	201.4	" "
1610	15.45	200	17.00	4.52	0.79	116	4.47	199.0	" "
1613	16.52	200	17.06	4.89	0.98	116	4.14	194.8	" "
1616	17.45	200	16.96	4.90	0.58	115	4.10	197.6	" "
1619	18.20	200	17.01	4.91	0.79	115	9.98	196.6	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

OPM2, 75psi

filled bottles closer to 150 mL/min due to significant draw-down

TD after purging 32.10

40 - 7.97 X .16 = 5.12

Trip blank = 4/6/22 @ 647

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 4/5/22 | Personnel: EGK

Project: Anniston GW Sonny Sampling | Client: Solutia | Page: 1 of 1

Well ID: OW-08-A | Starting Water Level: 8.52 | Time: 746

Total Depth: 25.31 | Ending Water Level: ~~8.74~~ | Time: 800

Purging Time: On: ~~803~~ 802 | Evacuation Method: Dedicated Bailer pump

Off: 838 | Volume in Well (gallons): 2.31

Well Depth: 23 | Evacuation Rate (gal/min): 300 ml/min

Screen Depth: 12.5 - 22.5 | Total Volume Removed (gallons): 1.5

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
748	8.76	209	16.54	6.42	6.86	244	4.17	134.2	Clear no odor
751	8.76	250	14.28	6.29	6.60	246	3.89	137.8	" "
754	8.75	300	16.25	6.10	88.20	245	3.10	152.9	" "
757	8.72	300	16.18	6.06	8.18	245	2.95	157.4	" "
800	8.74	300	16.12	6.09	4.94	248	2.94	168.7	" "

Stabilization Requirements as per SOP A-10 and EPA SOP for Low-Flow/Minimal Drawdown Groundwater Sample Collection.
Three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C ✓
pH:	+/- 0.1 Standard Units
Specific Conductivity:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

CPM4
pressure around 40

* started running during sampling, but covered bottle so not contamination would occur.

Sample time 800

OCTOBER 2022 PURGING LOGS

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10/25/22

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG JA

GSI Job No.: 6122 | Date: ~~10/25/2022~~ 10/24/2022 | Personnel: JA, EGK

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 2

Well ID: MW-01B | 40.02 → Starting Water Level: ~~40.06~~ ~~40.02~~ 40.06 JA | Time: ~~1710~~ ~~0722~~ 1710 JA ← 722

Total Depth: 63.60 | Ending Water Level: 56.49 | Time: 829

Purging Time: On: 0724 | Evacuation Method: Dedicated Bladder Pump

Off: 0829 | Volume in Well (gallons): 3.98

Well Depth: 62.5 ft bgs | Evacuation Rate (gal/min): 0.03 gal/min

Screen Depth: 57.5 - 62.5 ft bgs | Total Volume Removed (gallons): ~2 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
0727	41.55	200	17.74	4.79	50.9	14.39	7.20	286.1	Clear/no odor
0730	42.50	200	17.48	4.25	116	14.49	6.74	278.0	" "
0733	42.97	200	17.27	4.17	103	13.52	7.88	283.5	" "
0736	43.83	175	17.22	4.09	79.9	11.95	8.69	297.1	" "
0739	44.48	175	17.19	4.07	62.0	11.98	8.66	302.9	" "
0742	45.42	175	17.16	4.02	50.3	11.76	8.68	312.5	" "
0745	45.98	175	17.15	3.96	44.0	11.36	8.53	317.5	" "
0748	47.40	175	17.13	4.00	36.3	11.59	8.36	322.1	" "
0751	47.64	175	17.11	3.95	38.8	11.62	8.12	327.7	" "
0754	48.39	175	17.11	3.97	30.1	12.01	7.75	333.6	" "
0757	49.33	200	17.11	3.93	26.1	12.45	7.44	333.8	" "
0800	50.30	160	17.11	3.90	22.9	12.84	7.15	336.9	" "
0803	50.67	150	17.14	3.92	23.5	13.00	6.87	339.5	" "
0806	51.90	150	17.17	3.94	20.9	13.34	6.58	340.2	" "
0809	52.68	150	17.17	3.92	19.9	13.65	6.35	344.0	" "
0814	53.52	150	17.18	3.91	15.5	14.01	6.25	346.7	" "
0817	54.10	150	17.16	3.89	13.9	14.29	6.24	346.1	" "
0820	54.59	150	17.20	3.91	11.3	14.56	6.24	346.4	" "

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

30 psi

cpm4 12.5
2.5

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 10/25/22 | Personnel: EGK, JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 2 of 2

Well ID: MW-01B | Starting Water Level: 40.02 | Time: 0722

Total Depth: 63.68 | Ending Water Level: 56.49 | Time: 829

Purging Time: On: 0724 | Evacuation Method: Dedicated Bladder Pump

Off: 0829 | Volume in Well (gallons): 3.98

Well Depth: 62.5ft bgs | Evacuation Rate (gal/min): 0.03 gal/min

Screen Depth: 57.5 - 62.5ft bgs | Total Volume Removed (gallons): ~2 gal

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
0823	55.19	175	17.20	3.89	9.28	14.76	6.21	347.5	clear / no odor
0826	55.82	175	17.18	3.92	8.55	14.90	6.20	347.5	" "
0829	56.49	175	17.20	3.96	7.23	14.93	6.17	348.0	" "

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

well ran dry 10/25/22 @ 845
- water level below top of pump.

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 10/25/22 | Personnel: EGK, JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-12A | Starting Water Level: 97.32 | Time: 1134

Total Depth: 115.22 | Ending Water Level: 97.62. | Time: 1202

Purging Time On: 1137 | Evacuation Method: Dedicated Bladder Pump

Off: ~~1223~~ 1202 | Volume in Well (gallons): 4.75

Well Depth: 124.5 | Evacuation Rate (gal/min): 250

Screen Depth: 105 - 110 | Total Volume Removed (gallons): 1.94

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1139	97.45	200	19.45	7.63	3.31	333.78	9.11	153.9	clear / no odor
1142	97.49	150	18.56	7.30	2.10	334.81	9.08	160.2	" "
1145	97.72	400	17.23	7.09	10.8	331.51	8.67	167.0	" "
1148	97.75	400	17.10	7.44	3.43	308.95	5.85	155.6	" "
1151	97.89	400	16.97	7.47	1.55	280.40	4.81	153.8	" "
1154	97.71	400	17.06	7.56	1.85	276.26	4.70	~~151~~ 151.8	" "
1159	97.63	250	17.13	7.61	1.06	274.13	4.64	153.4	" "
1202	97.62	250	17.09	7.62	1.10	272.74	4.64	152.4	" "

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

1050 600
4800 450
4800
1500

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 10/25/22 | Personnel: JA, EGK

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-16 | Starting Water Level: 27.86 | Time: 1320

Total Depth: 70.82 | Ending Water Level: 30.43 | Time: 1350

Purging Time On: 1326 | Evacuation Method: Dedicated Bladder Pump

Off: 1350 | Volume in Well (gallons): 7.05 gallons

Well Depth: 71.1 ft btoc | Evacuation Rate (gal/min): 0.053 gallons/min

Screen Depth: 50-60 ft bgs | Total Volume Removed (gallons): 1.27 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1326	31.38	200	21.10	4.42	8.57	54.19	0.93	308.9	clear greenish yellow, none
1329	32.19	200	20.88	4.43	9.58	52.52	0.67	295.5	" "
1332	33.14	200	20.71	4.55	8.28	49.49	0.56	285.3	" "
1335	34.37	200	20.87	4.62	7.12	47.37	0.52	280.9	" "
1338	34.95	200	20.96	4.51	6.03	45.71	0.55	272.2	" "
1341	35.72	200	21.02	4.49	5.37	44.86	0.52	272.1	" "
1344	36.72	200	20.95	4.53	5.13	43.95	0.50	268.4	" "
1347	37.42	200	21.00	4.49	5.52	43.43	0.50	262.5	" "
1350	30.43	200	20.92	4.56	6.60	43.66	0.50	263.1	" "

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

1622
10

GSI Job No.: 6122 | Date: 10/25/22 | Personnel: EGK, JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-15 | Starting Water Level: 12.50 | Time: 1531

Total Depth: NM (pump stuck) | Ending Water Level: 13.40 | Time: 1618

Purging Time On: 1530 | Evacuation Method: Dedicated Bladder Pump

Off: 1618 | Volume in Well (gallons): 2.36

Well Depth: 27 | Evacuation Rate (gal/min): 300

Screen Depth: 19-24 | Total Volume Removed (gallons): 3.57

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1533	13.10	300	24.21	6.76	NM	188.04	2.50	164.1	clear no odor
1536	13.20	300	22.99	6.05	13.8	336.27	1.37	184.1	" "
1541	13.32	300	22.55	5.34	39.0	496.83	0.32	220.6	" "
1545	13.35	300	22.42	5.35	44.8	496.20	0.26	227.1	" "
1548	13.38	300	22.44	5.29	41.7	493.15	0.23	228.6	" "
1551	13.35	300	22.38	5.35	24.5	487.64	0.21	226.1	" "
1554	13.36	300	22.38	5.27	19.7	484.16	0.20	234.4	" "
1557	13.42	300	22.33	5.36	15.8	481.90	0.19	235.6	" "
1600	13.40	300	22.30	5.34	14.2	477.43	0.28	236.6	" "
1603	13.40	300	22.33	5.38	13.6	477.19	0.18	239.2	" "
1606	13.42	300	22.31	5.37	10.9	476.03	0.17	240.6	" "
1609	13.43	300	22.31	5.30	10.1	470.11	0.18	245.9	" "
1612	13.40	300	22.30	5.38	8.60	473.02	0.17	247.7	" "
1615	13.40	300	22.28	5.36	7.60	475.36	0.16	247.2	" "
1618	13.40	300	22.29	5.40	7.03	471.48	0.16	247.8	" "

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

0.163

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 10/26/22 | Personnel: JA, EGK

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-20A | Starting Water Level: 10.27 | Time: 724

Total Depth: 25.71 | Ending Water Level: 17.80 | Time: 806

Purging Time On: 730 | Evacuation Method: Dedicated Bladder Pump

Off: 806 | Volume in Well (gallons): 2.4 gallons

Well Depth: 24 ft bgs | Evacuation Rate (gal/min): 0.059 gal/min

Screen Depth: 19-24 ft bgs | Total Volume Removed (gallons): 2.11 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
730	12.02	250	21.68	6.77	124	1092.6	1.52	-165.0	cloudy, floating ants, slight odor
733	12.70	200	21.89	6.73	96.4	1004.5	0.91	-148.0	cloudy no ants, slight odor
736	13.48	200	22.16	6.71	70.2	993.94	0.81	-130.4	less cloudy, slight odor
739	14.20	200	22.22	6.74	39.0	1013.61	0.52	-123.7	clear, no odor
742	14.80	200	22.31	6.75	31.5	989.11	0.46	-121.5	" "
745	15.22	200	22.71	6.77	21.0	985.87	0.44	-117.4	" "
748	15.75	200	22.32	6.77	19.1	987.77	0.45	-114.0	" "
751	16.10	200	22.33	6.78	15.4	988.02	0.45	-111.1	" "
754	16.58	200	22.33	6.79	13.3	990.05	0.47	-107.9	" "
757	16.90	200	22.30	6.79	14.8	992.10	0.47	-105.9	" "
800	17.21	200	22.26	6.79	9.87	1001.20	0.50	-103.9	" "
803	17.35	200	22.18	6.78	10.2	994.63	0.50	-103.4	" "
806	17.80	200	22.30	6.79	10.4	997.54	0.49	-102.2	" "

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

250 x 3

200 x 12

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 10/26/22 | Personnel: EGK, JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 3

Well ID: MW-11A | Starting Water Level: 95.30 | Time: 942

Total Depth: 112.36 | Ending Water Level: 95.59 | Time: 1149

Purging Time On: ~~1149~~ 0948 | Evacuation Method: Dedicated Bladder Pump

Off: 1149 | Volume in Well (gallons): 3.26

Well Depth: 117 | Evacuation Rate (gal/min): 200 - 400 ml/min

Screen Depth: 109-114 | Total Volume Removed (gallons): 9.5

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
0948	95.55	100	16.64	7.21	131	234.93	6.99	80.7	slightly cloudy, no odor
0951	95.62	250	16.85	7.12	83.4	222.09	6.86	93.9	" "
0954	95.65	250	16.88	7.47	154	206.46	6.32	87.9	" "
0957	95.65	250	16.85	7.52	870	213.03	5.66	-8.4	cloudy, no odor
1000	95.69	300	16.88	7.52	>1000	216.17	5.34	-23.3	" "
1003	95.70	300	16.85	7.56	>1000	217.12	5.35	-17.4	" "
1006	95.72	300	16.84	7.64	642	217.39	5.37	-0.1	" "
1009	95.70	300	16.82	7.68	393	220.48	5.35	15.4	" "
1012	95.79	300	16.78	7.70	270	222.92	5.32	24.2	" "
1015	95.79	300	16.81	7.73	176	227.95	5.36	32.1	" "
1018	95.79	300	16.81	7.73	127	222.55	5.39	39.6	partly cloudy, no odor
1021	95.81	300	16.80	7.73	98.4	222.23	5.37	48.3	" "
1024	95.72	300	16.82	7.73	71.7	220.93	5.36	53.9	" "
1027	95.72	300	16.80	7.74	60.2	220.60	5.36	58.7	" "
1030	95.72	300	16.81	7.75	42.4	219.68	5.29	63.4	" "
1033	95.81	300	16.81	7.74	35.9	218.56	5.28	66.8	" "
1036	95.72	300	16.81	7.75	30.1	222.70	5.28	69.4	clear
1039	95.82	300	16.80	7.74	24.1	218.09	5.25	72.9	clear

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

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GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 10/26/22 | Personnel: EGK, JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 2 of 3

Well ID: MW-11A | Starting Water Level: 95.30 | Time: 942

Total Depth: | Ending Water Level: | Time:

Purging Time: On: | Off: | Well Depth: | Screen Depth:

Evacuation Method: Dedicated Bladder Pump (see pg. 1)

Volume in Well (gallons):

Evacuation Rate (gal/min):

Total Volume Removed (gallons):

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1042	95.86	300	16.81	7.76	19.3	222.85	5.33	75.5	clear no odor
1045	95.85	300	16.81	7.74	19.4	221.78	5.28	77.3	" "
1048	95.85	300	16.82	7.74	15.7	222.04	5.28	79.1	" "
1053	95.65	200	16.87	7.74	15.3	225.04	5.33	84.3	- Battery died replaced
1100	95.81	400	16.90	7.75	12.1	223.26	5.27	84.8	clear no odor
1103	95.89	400	16.84	7.75	8.54	224.45	5.22	86.6	" "
1106	95.90	400	16.82	7.73	8.72	222.88	5.26	87.3	" "
1109	95.90	400	16.81	7.75	15.6	220.25	5.34	86.1	" "
1112	95.90	400	16.79	7.76	20.8	219.64	5.34	87.1	" "
1115	95.90	400	16.78	7.75	24.2	220.59	5.25	87.8	" "
1118	95.90	400	16.79	7.75	23.3	359	5.23	89.4	220.31 EGK " "
1121	95.89	400	16.80	7.77	20.1	222.21	5.22	90.0	" "
1124	95.89	400	16.80	7.75	17.1	225.21	5.18	90.8	" "
1132	95.60	200	16.86	7.75	14.0	229.48	5.29	93.8	" "
1137	95.59	200	16.86	7.75	12.4	228.30	5.31	94.9	" "
1140	95.59	200	16.86	7.75	10.9	227.13	5.23	95.1	" "
1143	95.59	200	16.87	7.74	9.01	226.18	5.18	96.7	" "
1146	95.63	200	16.87	7.75	8.69	227.26	5.09	97.8	" "

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

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GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: | Personnel:

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 3 of 3

Well ID: MW-11A | Starting Water Level: | Time:

Total Depth: | Ending Water Level: | Time:

Purging Time:
On:
Off:

Evacuation Method: Dedicated Bladder Pump

Volume in Well (gallons):

Well Depth: | Evacuation Rate (gal/min):

Screen Depth: | Total Volume Removed (gallons):

see pg. 1

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1149	95.59	200	16.89	7.75	6.84	228.13	5.18	98.5	

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

GSI ENVIRONMENTAL

LOW FLOW MONITORING WELL PURGING LOG

GSI Job No.: 6122 | Date: 10/26/2022 | Personnel: JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-13A-R | Starting Water Level: 95.09 | Time: 1617

Total Depth: 114.62 (measured on 10/25/22) | Ending Water Level: 95.10 | Time: 1711

Purging Time: On: 1626 | Evacuation Method: Dedicated Bladder Pump

Off: 1711 | Volume in Well (gallons): 2.59 gallons

Well Depth: 111 ft bgs | Evacuation Rate (gal/min): 0.053 gallons per min.

Screen Depth: 105 - 110 ft bgs | Total Volume Removed (gallons): 2.38 gallons

PURGING DATA AND FIELD PARAMETERS

Time	Depth to Water (ft TOC)	Pumping Rate (mL/min)	Temperature (°F / °C)	pH	Turbidity (NTU)	Spec. Cond. (umhos/cm)	DO (mg/L)	ORP (mV)	Description (Color/Odor)
1626	95.09	200	18.26	7.10	2.90	328.74	6.81	129.6	clear, no odor
1629	95.09	200	18.06	7.12	5.26	328.94	7.01	133.1	" "
1632	95.09	200	18.01	7.10	7.43	328.02	6.28	134.4	" "
1635	95.09	200	17.91	7.11	6.24	327.48	5.49	136.5	" "
1638	95.09	200	17.86	7.08	7.03	327.74	5.13	136.1	" "
1641	95.09	200	17.84	7.07	5.77	327.64	4.97	137.0	" "
1644	95.10	200	17.81	7.07	5.12	327.68	4.82	137.3	" "
1647	95.10	200	17.79	7.05	4.81	327.77	4.72	138.0	" "
1650	95.10	200	17.73	7.04	4.17	327.85	4.59	138.1	" "
1653	95.10	200	17.74	7.06	2.89	328.12	4.53	137.7	" "
1656	95.10	200	17.72	7.05	3.15	328.38	4.51	138.1	" "
1659	95.10	200	17.72	7.07	2.91	328.66	4.44	138.2	" "
1702	95.10	200	17.71	7.07	2.38	329.69	4.41	138.0	" "
1705	95.10	200	17.71	7.05	3.66	329.08	4.36	138.6	" "
1708	95.10	200	17.71	7.05	3.27	329.02	4.35	138.9	" "
1711	95.10	200	17.70	7.04	2.06	328.57	4.34	138.7	" "

Stabilization requirements, per SOP A-10, are achieved when water is free of visible sediment and three successive readings every 3 to 5 minutes to include:

Temperature:	+/- 3 °C
pH:	+/- 0.1 Standard Units
Specific Conductance:	+/- 3%
ORP:	+/- 10 mV
Dissolved Oxygen:	< 0.5 mg/L or +/- 10% if DO is greater than 0.5 mg/L
Turbidity:	< 10 NTU or +/- 10% if turbidity is greater than 10 NTUs

Notes:

2022 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia Inc. Anniston, Alabama

RCRA Post-Closure Permit ALD 004 019 048

Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDIX C

Appendix C. Sampling Logs

APRIL 2022 SAMPLING LOGS

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GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6122 Date: 4/4/2022 Personnel: JA, EGK, AJL

Project: Anniston Spring GW Client: Solutia Page: 1 of 1

Well ID: MW-11R Begin Time: 1724 End Time: 1755

Weather: Sunny, hot Site Conditions: good

COC ID #1: MW-11A = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: — = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 16.61 Color: clear

pH: (Standard Units) 7.25 Appearance: clear

Turbidity: (NTU) 31.3 DO: (mg/L) 3.76

Specific Conductivity: (µmhos/cm) 254 ORP: (mV) 46.4

Sampling Method/ Material: dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
—	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
—	1 L glass vial with no preservative for PCB analysis (filtered)	
—	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
—	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt YES / (NO)

Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 60122 Date: 4/5/22 Personnel: JA AJV

Project: Spring GW sampling Client: Solutia Page: 1 of 1

Well ID: MW-20A Begin Time: 1347 End Time: 1530

Weather: overcast, drizzle Site Conditions: good, gravel

COC ID #1: MW-20A = Original Sample COC ID #2: Field Duplicate 1 = Duplicate

COC ID #3: — = Field Blank COC ID #4: MW-20A = MS/MSD

COC ID #5: MW-20AF = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 18.44 Color: clear

pH: (Standard Units) 6.89 Appearance: clear

Turbidity: (NTU) 10.5 DO: (mg/L) 0.31

Specific Conductivity: (µmhos/cm) 1256 ORP: (mV) 87.9

Sampling Method/ Material: dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
12	40 mL glass vial with HCl for VOA analysis (8260)	
6	1 L glass vial with no preservative for SVOC analysis (8270)	
3	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
8	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
4	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
0	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene JA (YES) / NO

4-Nitrophenol (YES) / NO

Pentachlorophenol (YES) / NO

2,4,6-Trichlorophenol (YES) / NO

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury (YES) / (NO) JA

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6122 Date: 4/5/22 Personnel: JA AJV

Project: Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: MW-13A Begin Time: 1656 End Time: 1725

Weather: sunny Site Conditions: good, grassy

COC ID #1: MW-13A = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: — = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / C) 16.86

pH: (Standard Units) 6.89

Turbidity: (NTU) 0.29

Specific Conductivity: (µmhos/cm) 400

Sampling Method/ Material: dedicated bladder pump

Color: clear

Appearance: clear

DO: (mg/L) 3.22

ORP: (mV) 103.5

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
—	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
—	1 L glass vial with no preservative for PCB analysis (filtered)	
—	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
—	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt YES / (NO)

Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6123 Date: 4/6/22 Personnel: JA AJV

Project: Spring GW Sampling Client: Solvita Page: 1 of 1

Well ID: OWR-14D Begin Time: 1057 End Time: 1400

Weather: overcast, windy Site Conditions: grassy - good

COC ID #1: OWR-14D = Original Sample COC ID #2: Field Duplicate 2 = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: OWR-14DF = Original Sample (Filtered) COC ID #6: Field Duplicate 2F Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 20.03 Color: clear

pH: (Standard Units) 7.13 Appearance: clear

Turbidity: (NTU) 6.94 DO: (mg/L) 0.96

Specific Conductivity: (µmhos/cm) 601 ORP: (mV) 26.7

Sampling Method/ Material: portable bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
—	40 mL glass vial with HCl for VOA analysis (8260)	
—	1 L glass vial with no preservative for SVOC analysis (8270)	
—	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
3	1 L glass vial with no preservative for PCB analysis	
3	1 L glass vial with no preservative for PCB analysis (filtered)	
2	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
2	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol YES / (NO)

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO

Homologs (YES) / NO

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES (NO)

Parathion YES (NO)

METALS (6010)

Beryllium YES / (NO)

Cobalt YES / (NO)

Manganese (YES) / NO

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 60123 Date: 4/6/22 Personnel: JA

Project: Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: T-18 Begin Time: 1646 End Time: 1739

Weather: overcast Site Conditions: good, concrete

COC ID #1: T-18 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: T-18F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F (°C)) 20.70

pH: (Standard Units) 5.79

Turbidity: (NTU) 315

Specific Conductivity: (µmhos/cm) 2.50

Sampling Method/ Material: portable bladder pump

Color: orangish tan

Appearance: slightly cloudy

DO: (mg/L) 6.05

ORP: (mV) 77.2

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
—	40 mL glass vial with HCl for VOA analysis (8260)	
—	1 L glass vial with no preservative for SVOC analysis (8270)	
—	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
4	1 L glass vial with no preservative for PCB analysis	
4	1 L glass vial with no preservative for PCB analysis (filtered)	
—	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
—	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol YES / (NO)

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO

Homologs (YES) / NO

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES (NO)

Parathion YES (NO)

METALS (6010)

Beryllium YES / (NO)

Cobalt YES / (NO)

Manganese YES (NO)

MERCURY (7470)

Mercury YES (NO)

NOTE: o-ring was missing when pump was first introduced in well. Created air bubbles. Issue resolved when o-ring was replaced

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6123 Date: 4/7/22 Personnel: JA

Project: Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: OWR-13 Begin Time: 948 End Time: 1025

Weather: Sunny, cool Site Conditions: grassy good

COC ID #1: OWR-13 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: OWR-13F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 19.54 Color: clear

pH: (Standard Units) 5.44 Appearance: clear

Turbidity: (NTU) 6.82 DO: (mg/L) 3.83

Specific Conductivity: (µmhos/cm) 215 ORP: (mV) 102.9

Sampling Method/ Material: portable bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
—	40 mL glass vial with HCl for VOA analysis (8260)	
—	1 L glass vial with no preservative for SVOC analysis (8270)	
—	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
4	1 L glass vial with no preservative for PCB analysis	
4	1 L glass vial with no preservative for PCB analysis (filtered)	
—	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
—	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol YES / (NO)
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO
Homologs (YES) / NO

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)
Parathion YES / (NO)

METALS (6010)

Beryllium YES / (NO)
Cobalt YES / (NO)
Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 60123 Date: 4/7/22 Personnel: JA

Project: Spring GW sampling Client: Solutia Page: 1 of 1

Well ID: T-10 Begin Time: 1123 End Time: 1220

Weather: Sunny, cool Site Conditions: good grassy

COC ID #1: T-10 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: — = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 18.57 Color: clear

pH: (Standard Units) 3.80 Appearance: clear

Turbidity: (NTU) 7.80 DO: (mg/L) 3.46

Specific Conductivity: (µmhos/cm) 206 ORP: (mV) 171.3

Sampling Method/ Material portable bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
—	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
—	1 L glass vial with no preservative for PCB analysis (filtered)	
—	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
—	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol (YES) / NO
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO
Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)
Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)
Cobalt YES / (NO)
Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6123 Date: 4/4/22 Personnel: JA

Project: Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: T-20 Begin Time: 1535 End Time: 1605

Weather: windy, sunny Site Conditions: good, grassy

COC ID #1: T-20 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: T-20F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 18.79

pH: (Standard Units) 3.45

Turbidity: (NTU) 2.70

Specific Conductivity: (µmhos/cm) 288

Sampling Method/ Material portable bladder pump

Color: clear

Appearance: clear

DO: (mg/L) 4.05

ORP: (mV) 197.6

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
—	40 mL glass vial with HCl for VOA analysis (8260)	
—	1 L glass vial with no preservative for SVOC analysis (8270)	
—	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol YES / (NO)

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)

Parathion YES / (NO)

METALS (6010)

Beryllium YES / (NO)

Cobalt YES / (NO)

Manganese (YES) / NO

MERCURY (7470)

Mercury (YES) NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 10122 Date: 4/15/22 Personnel: JA

Project: Spring GW Sampling Client: Solvia Page: 1 of 1

Well ID: MW-16 Begin Time: 1241 End Time: 1350

Weather: overcast, windy Site Conditions: good - gravel

COC ID #1: MW-16 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: MW-16F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / (C)) 18.44

pH: (Standard Units) 4.62

Turbidity: (NTU) 9.91

Specific Conductivity: (µmhoe/cm) 50

Sampling Method/ Material: dedicated bladder pump

Color: greenish yellow

Appearance: clear

DO: (mg/L) 0.65

ORP: (mV) 158.0

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good.

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6122 Date: 4/10/22 Personnel: JA

Project: Anniston Spring GW Samp. Client: Solutia Page: 1 of 1

Well ID: MW-09A Begin Time: 837 End Time: 915

Weather: cool, sunny. Site Conditions: good

COC ID #1: MW-09A = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: — = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 18.57 Color: clear

pH: (Standard Units) 4.96 Appearance: clear

Turbidity: (NTU) 7.43 DO: (mg/L) 4.42

Specific Conductivity: (µmhos/cm) 100 ORP: (mV) 186.5

Sampling Method/ Material: dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
—	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
—	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6122 Date: 4/12/22 Personnel: JA

Project: Anniston Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: MW-D8 Begin Time: 946 End Time: 1030

Weather: cool, sunny Site Conditions: good grassy

COC ID #1: MW-D8 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: — = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 17.40 Color: clear

pH: (Standard Units) 6.12 Appearance: clear

Turbidity: (NTU) 70.3 DO: (mg/L) 1.66

Specific Conductivity: (µmhos/cm) 340 ORP: (mV) 133.4

Sampling Method/ Material: dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
—	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
—	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 60122 Date: 4/10/22 Personnel: JA

Project: Anniston Spring GW Samp Client: Solutia Page: 1 of 1

Well ID: OW-22 Begin Time: 1133 End Time: 1230

Weather: Sunny, hot Site Conditions: good, grassy

COC ID #1: OW-22 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: OW-22F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / (°C)) 19.35

pH: (Standard Units) 4.36

Turbidity: (NTU) 63.2

Specific Conductivity: (µmhos/cm) 77

Sampling Method/ Material dedicated bladder pump

Color: clear

Appearance: clear

DO: (mg/L) 1.86

ORP: (mV) 221.8

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good.

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6123 Date: 4/10/22 Personnel: JA

Project: Anniston Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: T-04 Begin Time: 1526 End Time: 1554

Weather: sunny hot Site Conditions: good grass

COC ID #1: T-04 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: T-04F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 18.14 Color: clear

pH: (Standard Units) 10.35 Appearance: clear

Turbidity: (NTU) 4.20 DO: (mg/L) 2.20

Specific Conductivity: (µmhos/cm) 237 ORP: (mV) 183.5

Sampling Method/ Material: portable bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
—	40 mL glass vial with HCl for VOA analysis (8260)	
—	1 L glass vial with no preservative for SVOC analysis (8270)	
—	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol YES / (NO)

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)

Arochlors YES / (NO)

Homologs (YES) / NO

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)

Parathion YES / (NO)

METALS (6010)

Beryllium YES / (NO)

Cobalt YES / (NO)

Manganese (YES) / NO

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6123 Date: 4/11/22 Personnel: JA EGK

Project: Spring GW Sampling Client: Solvay Page: 1 of 1

Well ID: OWR-15D Begin Time: 1055 End Time: 1130

Weather: overcast, cool Site Conditions: good, grassy

COC ID #1: OWR-15D = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: OWR-15DF = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 17.04

pH: (Standard Units) 4.96

Turbidity: (NTU) 4.71

Specific Conductivity: (µmhos/cm) 169

Sampling Method/ Material portable bladder pump

Color: clear

Appearance: clear

DO: (mg/L) 0.30

ORP: (mV) 143.3

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
—	40 mL glass vial with HCl for VOA analysis (8260)	
—	1 L glass vial with no preservative for SVOC analysis (8270)	
—	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
—	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
—	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol YES / (NO)

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)

Parathion YES / (NO)

METALS (6010)

Beryllium YES / (NO)

Cobalt YES / (NO)

Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 0122 Date: 4/10/22 Personnel: EGK, AJV

Project: Anniston Spring GW Sampling Client: SOUTIA Page: 1 of 1

Well ID: MW-12A Begin Time: 748 End Time: 806

Weather: Sunny, cold Site Conditions: good

COC ID #1: MW-12A = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: — = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 15.91 (°F / °C) Color: clear

pH: 7.50 (Standard Units) Appearance: no odor

Turbidity: 1.61 (NTU) DO: 3.84 (mg/L)

Specific Conductivity: 385 (µmhos/cm) ORP: 222.8 (mV)

Sampling Method/ Material: dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
0	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
0	1 L glass vial with no preservative for PCB analysis (filtered)	
0	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
0	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt YES / (NO)

Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6122 Date: 4/10/22 Personnel: EGK

Project: Anniston Spring GW Samp Client: Solutia Page: 1 of 1

Well ID: MW-14 Begin Time: 903 End Time: 939

Weather: Sunny, cool Site Conditions: good

COC ID #1: MW-14 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: — = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 17.81

pH (Standard Units): 6.35

Turbidity (NTU): 325

Specific Conductivity (µmhos/cm): 238

Sampling Method/ Material: dedicated bladder pump

Color: Cloudy

Appearance: no odor

DO (mg/L): 2.25

ORP (mV): 180.4

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
0	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
0	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / NO

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / (NO) EGK

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese (YES) / NO

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 60122 Date: 4/10/22 Personnel: EGK

Project: Anniston GW Sampling Spring Client: Solutia Page: 1 of 1

Well ID: OW-21A Begin Time: 1104 End Time: 1146

Weather: Sunny, Cool Site Conditions: good

COC ID #1: OW-21A = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: OW-21A-F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F/°C): 19.26

pH (Standard Units): 4.23

Turbidity (NTU): 13.1

Specific Conductivity (µmhos/cm): 124

Sampling Method/ Material: dedicated bladder pump

Color: clear

Appearance: slight odor

DO (mg/L): 1.54

ORP (mV): 185.7

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / NO

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese (YES) / NO

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 10123 Date: 4/10/22 Personnel: EAK

Project: Anniston Spring GW monitoring Client: Solutia Page: 1 of 1

Well ID: WEL-01 Begin Time: 1525 End Time: 1552

Weather: Sunny, Warm Site Conditions: good

COC ID #1: — = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: WEL-01F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 16.81 (°F / °C) Color: clear

pH: 5.03 (Standard Units) Appearance: no odor

Turbidity: 5.58 (NTU) DO: 2.59 (mg/L)

Specific Conductivity: 84 (µmhos/cm) ORP: 141.7 (mV)

Sampling Method/ Material: peristaltic pump - non-dedicated tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
0	40 mL glass vial with HCl for VOA analysis (8260)	
0	1 L glass vial with no preservative for SVOC analysis (8270)	
0	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: there is an obstruction in the well @ right below the casing

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol YES / (NO)
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO
Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)
Parathion YES / (NO)

METALS (6010)

Beryllium YES / (NO)
Cobalt YES / (NO)
Manganese (YES) / NO

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 60123 Date: 4/11/22 Personnel: EGK

Project: Anniston Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: OW-10 Begin Time: 737 End Time: 758

Weather: Site Conditions:

COC ID #1: OW-10 = Original Sample COC ID #2: Field Duplicate 4 = Duplicate

COC ID #3: — = Field Blank COC ID #4: OW-10 = MS/MSD

COC ID #5: OW-10F = Original Sample (Filtered) COC ID #6: Field Duplicate 4-F = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 17.69 Color: Clear

pH (Standard Units): 6.33 Appearance: no odor

Turbidity (NTU): 34.3 DO (mg/L): 4.40

Specific Conductivity (µmhos/cm): 952 ORP (mV): 184.3

Sampling Method/ Material: non-dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
12	40 mL glass vial with HCl for VOA analysis (8260)	
0	1 L glass vial with no preservative for SVOC analysis (8270)	
0	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
8	1 L glass vial with no preservative for PCB analysis	
4	1 L glass vial with no preservative for PCB analysis (filtered)	
4	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
2	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: fair, needs new well cap

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: (YES) / NO

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol YES / (NO)

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)

Parathion YES / (NO)

METALS (6010)

Beryllium (YES) / NO

Cobalt YES / (NO)

Manganese (YES) / NO

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 0122 Date: 4/8/22 Personnel: EGK

Project: Anniston Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: OW-06A Begin Time: 1515 End Time: 1536

Weather: Cloudy, cool Site Conditions: good

COC ID #1: OW-06A = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: — = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 16.77 Color: clear

pH (Standard Units): 4.40 Appearance: no odor

Turbidity (NTU): 5.16 DO (mg/L): 6.40

Specific Conductivity (µmhos/cm): 42 ORP (mV): 268.7

Sampling Method/ Material: dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
0	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
0	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6122 Date: 4/8/22 Personnel: EGK

Project: Anniston Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: MW-15 Begin Time: 1200 End Time: 1227

Weather: cloudy, cool Site Conditions: good, gravel

COC ID #1: MW-15 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: MW-15-F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 17.41 (°F / °C) Color: clear, SM brown particles

pH: 6.05 (Standard Units) Appearance: no odor

Turbidity: 14.4 (NTU) DO: 4.40 (mg/L)

Specific Conductivity: 295 (µmhos/cm) ORP: 240.3 (mV)

Sampling Method/ Material: dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSIS	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6123 Date: 4/7/22 Personnel: EGK

Project: Anniston GW Spring Sampling Client: Solutia Page: 1 of 1

Well ID: OWR-11 Begin Time: 1554 End Time: 1642

Weather: Sunny, cool Site Conditions:

COC ID #1: OWR-11 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: OWR-11-F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 18.12

pH (Standard Units): 3.57

Turbidity (NTU): 9.01

Specific Conductivity (µmhos/cm): 378

Sampling Method/ Material: non-dedicated bladder pump

Color: clear slight tan tinge

Appearance: slight odor

DO (mg/L): 4.31

ORP (mV): 284.1

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
0	40 mL glass vial with HCl for VOA analysis (8260)	
0	1 L glass vial with no preservative for SVOC analysis (8270)	
0	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good except mud built up inside the flush mount well vault.

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol YES / (NO)

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)

Parathion YES / (NO)

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese (YES) / NO

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 0122 Date: 4/8/22 Personnel: EGK JA

Project: Anniston Spring GW sampling Client: Solutia Page: 1 of 1

Well ID: MW-01B Begin Time: 915 End Time: 954

Weather: partly cloudy, cool Site Conditions: good

COC ID #1: MW01B = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: — = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 15.97

pH (Standard Units): 4.28

Turbidity (NTU): 154.0

Specific Conductivity (µmhos/cm): 21

Sampling Method/ Material: dedicated bladder pump

Color: slightly cloudy

Appearance: no odor

DO (mg/L): 6.29

ORP (mV): 309.7

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
~~2~~ 1	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
0	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
0	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good, fixed thanked to Ben V

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) NO

Parathion (YES) NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 0123 Date: 4/7/22 Personnel: EG/C

Project: Anniston GW Spring Sampling Client: Solutia Page: 1 of 1

Well ID: T-09 Begin Time: 924 End Time: 1003

Weather: Sunny, Warm Site Conditions: fair, slightly muddy

COC ID #1: T-09 = Original Sample COC ID #2: Field Duplicate 3 = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: T-09-F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 18.01 Color: yellow / clear

pH (Standard Units): 5.62 Appearance: no odor

Turbidity (NTU): 11.6 DO (mg/L): 3.60

Specific Conductivity (µmhoe/cm): 251 ORP (mV): 195.0

Sampling Method/ Material: non-dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
0	40 mL glass vial with HCl for VOA analysis (8260)	
4	1 L glass vial with no preservative for SVOC analysis (8270)	
4	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
4	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
0	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
0	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good - needs permanent label

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol (YES) / NO
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO
Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)
Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)
Cobalt YES / (NO)
Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 60123 Date: 4/6/22 Personnel: EGK

Project: Anniston GW Spring Mont. Client: Solutia Page: 1 of 1

Well ID: WEL-04 Begin Time: 1313 End Time: 1348

Weather: Partly Cloudy, warm Site Conditions: good

COC ID #1: WEL-04 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: WEL-04-F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 18.27 Color: clear

pH (Standard Units): 5.17 Appearance: no odor

Turbidity (NTU): 30.5 DO (mg/L): 7.30

Specific Conductivity (µmhos/cm): ~~80~~ 80 ORP (mV): 194.1

Sampling Method/ Material: non-dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
0	40 mL glass vial with HCl for VOA analysis (8260)	
0	1 L glass vial with no preservative for SVOC analysis (8270)	
0	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good but inside pea gravel is a fire ant nest

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol YES / (NO)

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)

Parathion YES / (NO)

METALS (6010)

Beryllium YES / (NO)

Cobalt YES / (NO)

Manganese (YES) / NO

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6123 Date: 4/6/20 Personnel: EGK, AJV

Project: Anniston Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: T-4 Begin Time: 1550 End Time: 1614

Weather: cloudy, cool Site Conditions: good

COC ID #1: T-4 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: T-4-F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 19.19 Color: clear

pH (Standard Units): 6.10 Appearance: no odor

Turbidity (NTU): 15.8 DO (mg/L): 4.41

Specific Conductivity (µmhos/cm): 84 ORP (mV): 178.9

Sampling Method/ Material: non-dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
0	40 mL glass vial with HCl for VOA analysis (8260)	
0	1 L glass vial with no preservative for SVOC analysis (8270)	
0	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
0	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
0	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol YES / (NO)

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)

Parathion YES / (NO)

METALS (6010)

Beryllium YES / (NO)

Cobalt YES / (NO)

Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 0123 Date: 4/6/22 Personnel: EGIC

Project: Anniston Spring GW Sampling Client: Solutia Page: 1 of 1

Well ID: OWR-035 Begin Time: ~~1000~~ 1004 End Time: 1033

Weather: Cloudy, windy Site Conditions: good

COC ID #1: OWR-035 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: — = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 19.23 (°F / °C)

pH: 4.67 (Standard Units)

Turbidity: 37.2 (NTU)

Specific Conductivity: 119 (µmhos/cm)

Sampling Method/ Material: non dedicated bladder pump

Color: light pink

Appearance: small red/orange particles no odor

DO: 1.28 (mg/L)

ORP: 220.9 (mV)

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
0	40 mL glass vial with HCl for VOA analysis (8260)	
0	1 L glass vial with no preservative for SVOC analysis (8270)	
0	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
0	1 L glass vial with no preservative for PCB analysis (filtered)	
0	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
0	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol YES / (NO)
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
o,o,o-Triethylphosophorothioate YES / (NO)

PCBs (8082)

Arochlors (YES) / NO
Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)
Parathion YES / (NO)

METALS (6010)

Beryllium YES / (NO)
Cobalt YES / (NO)
Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6122 Date: 4/5/22 Personnel: EGK

Project: Anniston spring GW samp. Client: Solutia Page: 1 of 1

Well ID: OW-16A Begin Time: 1335 End Time: 1353

Weather: cloudy, rainy, windy Site Conditions: fair

COC ID #1: OW-16A = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: OW-16A-F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 16.64

pH: (Standard Units) 4.89

Turbidity: (NTU) 11.1

Specific Conductivity: (µmhos/cm) 164

Sampling Method/ Material dedicated bladder pump

Color: clear

Appearance: slight odor

DO: (mg/L) 0.94

ORP: (mV) 228.0

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: (YES) / NO

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese (YES) / NO

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6122 Date: 4/5/22 Personnel: FGK

Project: Anniston Spring GW Sampli Client: Solutia Page: 1 of 1

Well ID: OW-15 Begin Time: 1555 End Time: 1619

Weather: cloudy, windy Site Conditions: fair, slightly muddy

COC ID #1: OW-15 = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: OW-15-F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 17.01 (°F / °C) Color: Clear

pH: 4.91 (Standard Units) Appearance: Slightly odorous

Turbidity: 0.79 (NTU) DO: 3.98 (mg/L)

Specific Conductivity: 115 (µmhos/cm) ORP: 196.6 (mV)

Sampling Method/ Material: dedicated bladder pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
1	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury (YES) / NO

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6122 Date: 4/5/22 Personnel: EGK, AW, -A-

Project: Anniston Spring GW monitoring Client: Solutia Page: 1 of 1

Well ID: DW-08-A Begin Time: 748 End Time: 800

Weather: Rain Site Conditions: Fair, gradual

COC ID #1: DW08A = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: DW-08-A-F = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 16.12

pH: (Standard Units) 6.04

Turbidity: (NTU) 4.94

Specific Conductivity: (µmhos/cm) 248

Color: Clear

Appearance: no odor

DO: (mg/L) 2.94

ORP: (mV) 158.7

Sampling Method/ Material: dedicated Masterflex pump

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
2	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
(1)	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
(1)	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: (YES) / NO

Trichloroethene: (YES) / NO

SVOCs (8270)

1,2-Dichlorobenzene (YES) / NO

1,4-Dichlorobenzene (YES) / NO

Indeno(1,2,3-cd)pyrene (YES) / NO

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / NO

Cobalt (YES) / NO

Manganese (YES) / NO

MERCURY (7470)

Mercury (YES) / NO

OCTOBER 2022 SAMPLING LOGS

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GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6122 | Date: 10/25/22 | Personnel: EGK / JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-01B | Begin Time: 0829 (10/25) | End Time: 900 (10/25)

Weather: Cool, Cloudy | Begin: ~1230 (10/26) | Site Conditions: good | End: ~1300 (10/26)

COC ID #1: MW-01B = Original Sample | COC ID #2: — = Duplicate

COC ID #3: — = Field Blank | COC ID #4: — = MS/MSD

COC ID #5: — = Original Sample (Filtered) | COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 17.20

pH (Standard Units): 3.96

Turbidity (NTU): 7.23

Conductivity (µmhos/cm): 14.93

Color/ Appearance: clear / no odor

Odor: no odor

DO (mg/L): 6.17

ORP (mV): 348.0

Sampling Method/ Material: dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
0	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
0	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good, mowed

note that the well ran dry on 10/25/22 after filling (3) 1-L Amber bottles. We came back on 10/26/22 to fill remaining bottles

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6122 Date: 10/25/22 Personnel: EGK, FA

Project: Solutia Anniston RCRA GW Sampling Client: Solutia Page: 1 of 1

Well ID: MW-12A Begin Time: 1208 End Time: 1223

Weather: cloudy, foolish Site Conditions: good, leafy

COC ID #1: MW-12A = Original Sample COC ID #2: — = Duplicate

COC ID #3: — = Field Blank COC ID #4: — = MS/MSD

COC ID #5: — = Original Sample (Filtered) COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 17.09 Color/ Appearance: clear / no odor

pH (Standard Units): 7.62 Odor: no odor

Turbidity (NTU): 1.10 DO (mg/L): 4.64

Conductivity (µmhos/cm): 272.74 ORP (mV): 152.4

Sampling Method/ Material: dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
0	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
0	1 L glass vial with no preservative for PCB analysis (filtered)	
0	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
0	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good, missing elbow & masterflex - but was replaced

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt YES / (NO)

Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6122 | Date: 10/25/22 | Personnel: JA, EGK

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-16 | Begin Time: 1350 | End Time: 1425

Weather: windy, overcast | Site Conditions: good, gravel

COC ID #1: MW-16 = Original Sample | COC ID #2: — = Duplicate

COC ID #3: — = Field Blank | COC ID #4: — = MS/MSD

COC ID #5: — = Original Sample (Filtered) | COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: 20.92 (°F / (°C))

pH: 4.56 (Standard Units)

Turbidity: 6.60 (NTU)

Conductivity: 43.66 (µmhos/cm)

Color/ Appearance: clear greenish yellow

Odor: none

DO: 0.50 (mg/L)

ORP: 263.1 (mV)

Sampling Method/ Material: dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
3	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
—	1 L glass vial with no preservative for PCB analysis (filtered)	
1	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
—	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / NO

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6122 | Date: 10/25/22 | Personnel: EGK, JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-15 | Begin Time: 1618 | End Time: 1715

Weather: cloudy, cool, WINDY! | Site Conditions: good, windy

COC ID #1: MW-15 = Original Sample | COC ID #2: – = Duplicate

COC ID #3: – = Field Blank | COC ID #4: MW-15 = MS/MSD

COC ID #5: – = Original Sample (Filtered) | COC ID #6: – = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 22.29 | Color/ Appearance: clear

pH (Standard Units): 5.40 | Odor: no odor

Turbidity (NTU): 7.03 | DO (mg/L): 0.16

Conductivity (µmhos/cm): 471.48 | ORP (mV): 247.8

Sampling Method/ Material: dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
9	40 mL glass vial with HCl for VOA analysis (8260)	
6	1 L glass vial with no preservative for SVOC analysis (8270)	
6	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
6	1 L glass vial with no preservative for PCB analysis	
0	1 L glass vial with no preservative for PCB analysis (filtered)	
3	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
0	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good, gravel

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 8122 | Date: 10/26/2022 | Personnel: JA, EGK

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-20A | Begin Time: 0906 | End Time: 0958

Weather: cool, sunny | Site Conditions: good, gravel

COC ID #1: MW-20A = Original Sample | COC ID #2: DUPLICATE = Duplicate

COC ID #3: — = Field Blank | COC ID #4: — = MS/MSD

COC ID #5: — = Original Sample (Filtered) | COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 22.30 | Color/ Appearance: clear

pH: (Standard Units) 6.79 | Odor: none

Turbidity: (NTU) 10.4 | DO: (mg/L) 0.49

Conductivity: (µmhos/cm) 997.54 | ORP: (mV) -102.2

Sampling Method/ Material: dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
6	40 mL glass vial with HCl for VOA analysis (8260)	
4	1 L glass vial with no preservative for SVOC analysis (8270)	
4	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
4	1 L glass vial with no preservative for PCB analysis	
—	1 L glass vial with no preservative for PCB analysis (filtered)	
2	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
—	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: (YES) / NO

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp (YES) / NO

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt (YES) / NO

Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6122 | Date: 10/26/22 | Personnel: EGK, JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of

Well ID: MW-11A | Begin Time: 1149 | End Time: 1215

Weather: cloudy, cool | Site Conditions: good

COC ID #1: MW-11A = Original Sample | COC ID #2: — = Duplicate

COC ID #3: — = Field Blank | COC ID #4: — = MS/MSD

COC ID #5: — = Original Sample (Filtered) | COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature (°F / °C): 16.89 | Color/ Appearance: clear

pH (Standard Units): 7.75 | Odor: no odor

Turbidity (NTU): 6.84 | DO (mg/L): 5.18

Conductivity (µmhos/cm): 228.13 | ORP (mV): 98.5

Sampling Method/ Material: dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
0	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
0	1 L glass vial with no preservative for PCB analysis (filtered)	
0	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
0	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)
1,2,4-Trichlorobenzene: YES / (NO)
Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES / (NO)
1,4-Dichlorobenzene YES / (NO)
Indeno(1,2,3-cd)pyrene YES / (NO)
4-Nitrophenol (YES) / NO
Pentachlorophenol YES / (NO)
2,4,6-Trichlorophenol YES / (NO)
o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO
Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES / (NO)
Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)
Cobalt YES / (NO)
Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

GSI ENVIRONMENTAL

GROUNDWATER SAMPLING FORM

GSI Job No.: 6122 | Date: 10/26/2022 | Personnel: JA

Project: Solutia Anniston RCRA GW Sampling | Client: Solutia | Page: 1 of 1

Well ID: MW-13A-R | Begin Time: 1711 | End Time: 1805

Weather: cool | Site Conditions: good

COC ID #1: MW-13A-R = Original Sample | COC ID #2: — = Duplicate

COC ID #3: — = Field Blank | COC ID #4: — = MS/MSD

COC ID #5: MW-13A-RF = Original Sample (Filtered) | COC ID #6: — = Duplicate (Filtered)

SAMPLING DATA / FIELD PARAMETERS

Temperature: (°F / °C) 17.70

pH: (Standard Units) 7.04

Turbidity: (NTU) 2.06

Conductivity: (µmhos/cm) 328.57

Color/ Appearance: clear

Odor: none

DO: (mg/L) 4.34

ORP: (mV) 138.7

Sampling Method/ Material: dedicated bladder pump with teflon lined tubing

CONTAINER & ANALYSES DESCRIPTION

COLLECTED	CONTAINER & ANALYSES	NOTES
—	40 mL glass vial with HCl for VOA analysis (8260)	
2	1 L glass vial with no preservative for SVOC analysis (8270)	
2	1 L glass vial with no preservative for Organophos. Pest. analysis (8141)	
2	1 L glass vial with no preservative for PCB analysis	
2	1 L glass vial with no preservative for PCB analysis (filtered)	
—	250 mL plastic with HNO3 for metals analysis (see COC for exact metals)	
—	250 mL plastic with HNO3 for metals analysis (filtered)	

REMARKS

Condition of well: good

PARAMETER LIST

VOCs (8260)

Chlorobenzene: YES / (NO)

1,2,4-Trichlorobenzene: YES / (NO)

Trichloroethene: YES / (NO)

SVOCs (8270)

1,2-Dichlorobenzene YES (NO)

1,4-Dichlorobenzene YES / (NO)

Indeno(1,2,3-cd)pyrene YES / (NO)

4-Nitrophenol (YES) / NO

Pentachlorophenol YES / (NO)

2,4,6-Trichlorophenol YES / (NO)

o,o,o-Triethylphosophorothioate (YES) / NO

PCBs (8082)

Arochlors (YES) / NO

Homologs YES / (NO)

PESTICIDES (8141)

Tetraethyldithiopyrophosphate / Sulfotepp YES (NO)

Parathion (YES) / NO

METALS (6010)

Beryllium YES / (NO)

Cobalt YES / (NO)

Manganese YES / (NO)

MERCURY (7470)

Mercury YES / (NO)

2022 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia Inc. Anniston, Alabama

RCRA Post-Closure Permit ALD 004 019 048

Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDIX D

Appendix D. Calibration Logs

APRIL 2022 CALIBRATION LOGS

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FIELD INSTRUMENT CALIBRATION LOG

GSI ENVIRONMENTAL

GSI Job No.: 60122 / 60123
Project Name: Anniston Spring GW Sampling
Name of Person Performing Calibration: JA
Date of Last Calibration: 3/30/2022
Date Instrument Calibrated and Used: 4/4/2022

EQUIPMENT

Equipment Type(s).:	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Water Quality	YSI	556	22C07
2. Turbidity Meter	HANNA	HI98703	C3114
3.			

CALIBRATION STANDARDS / CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F°C)	% or Numeric Deviation	Pass/Fail	
1	DO	8.93	mg/L	N/A	1445	8.92	20.74	0.1%	PASS	calibrate
1	ORP	219.26	mV	7/30/22	1448	219.60	18.70	+0.~~3~~1	PASS	calibrate
1	Sp.Cond	~~1413~~	~~µS/cm~~	8/30/22	1458	1414	19.89	~~0.28~~ JA 0.14%	PASS	
1	pH	7	pH	10/30/22	1500	7.00	19.05	±0.00	PASS	
1	pH	4	pH	10/30/22	1501	4.19	19.20	+0.19	PASS	
1	pH	10	pH	6/30/22	1506	9.86	19.12	-0.14	PASS	
2	turb	6.03	NTU	N/A	1516	5.60	-19	7%	PASS	
2	turb	58.6	NTU	↓	1517	57.7	↓	1.5%	PASS	
2	turb	598	NTU	↓	1518	592	↓	1%	PASS	

Note:
1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

17.16 / X = 1 EGK

15/241 20/234.5

EGK 273
208.9 = 240.9J

FIELD INSTRUMENT CALIBRATION LOG

GSI ENVIRONMENTAL

GSI Job No.: 6122/6123
Project Name: Anniston spring GW sampling
Name of Person Performing Calibration: EGK
Date of Last Calibration: 3/30/22
Date Instrument Calibrated and Used: ~~5/5~~ 5/5/22

EQUIPMENT

	Equipment Type(s).:	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1.	YSI	YSI	556	C2202
2.	Turbidity	Hanna	HI 98703	C3117
3.				

CALIBRATION STANDARDS / CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F°/C°)	% or Numeric Deviation	Pass/Fail
1	pH 4	4.01	—	10/30/22	625	3.99	17.03	0.02	pass
1	pH 10	10	—	6/30/22	628	10.09	16.82	0.09	pass
	Specific conductance	1413	µS	8/30/22	639	1414	16.75	1	pass
	pH 7	7	—	10/30/22	631	6.97	16.98	0.03	pass
	Redox	~~288~~ 240.9	mV	7/30/22	~~635~~	~~240.3~~	~~17.16~~	5.3J	pass
↓	DO	9.84	mg/L	—	613	13.8	16.85	71.0%	Fail pass
~~1~~	DO	9.83	mg/L	—	619	~~9.83~~	16.79	0%	pass
2	0-10 ↔ Turb	NTU		—	649	6.90	—	0	pass
2	0-100 ↔ Turb	↓		—	650	100.0	—	0	pass
2	0-1000 ↔ Turb			—	650	575	—	0	pass

Note:
1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

Temp = 16.85°C / 16.79°C

9.87 − 9.67 = 0.2 × .85 = 0.17 + 9.67 = 9.84
9.87 − 9.67 = 0.2 × .79 = 0.158 + 9 (power) = 9.83

FIELD INSTRUMENT CALIBRATION LOG

GSI ENVIRONMENTAL

GSI Job No.: 6122/6123
Project Name: Anniston Spring GW Sampl
Name of Person Performing Calibration: JA
Date of Last Calibration: 4/4/2022
Date Instrument Calibrated and Used: 4/5/2022

EQUIPMENT

Equipment Type(s).:	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. water quality	YSI	556	C2207
2. Turbidity	HANNA	HI98703	C3114
3.			

CALIBRATION STANDARDS / CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (include +/-)	~~exp. date~~ ~~Units~~	~~units~~ ~~Expiration Date~~	Time	Instrument Response	Instrument Temperature (F/C)	% or Numeric Deviation	Pass/Fail	
1	DO	9.51	N/A	mg/L	600	9.48	17.23	-0.03	PASS	calibrate
1	ORP	283	7/30/22	mV	610	283	17.62	± 0	PASS	calibrate
1	sp.Cond	1413	8/30/22	umhos	613	1416	17.23	0.2%	PASS	
1	pH	7	10/30/22	pH	614	7.05	17.09	+0.05	PASS	
1	pH	4	10/30/22	pH	616	4.15	17.28	+0.15	PASS	
1	pH	10	6/30/22	pH	620	9.95	17.08	-0.05	PASS	
2	6.03	NTU	N/A	N/A	625	5.86	-18	2.8%	PASS	
2	58.6	↓	↓	↓	625	58.8	↓	0.34%	PASS	
2	598	↓	↓	↓	625	597	↓	0.17%	PASS	

Note:
1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

FIELD INSTRUMENT CALIBRATION LOG

GSI ENVIRONMENTAL

GSI Job No.: 6122 / 6123
Project Name: Anniston GW Sampling Spring
Name of Person Performing Calibration: EGK
Date of Last Calibration: 4/5/22
Date Instrument Calibrated and Used: 4/6/22

EQUIPMENT

	Equipment Type(s).:	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1.	YSI	YSI	556	C2202
2.	Turbidity	Hanna	HI98703	C3117
3.				

CALIBRATION STANDARDS / CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F°/C°)	% or Numeric Deviation	Pass/Fail
1	DO	mg/L ↔ 9.44	—	—	749	9.54	18.84	0.10	~~pass~~
1	pH 4	4.01	—	10/30/22	754	4.04	18.43	0.04	pass
1	pH 7	7.00	—	10/30/22	759	6.82	18.16	0.18	pass
1	pH 10	10.00	—	6/30/22	802	9.84	18.31	0.16	pass
1	specific conductance	1413	µS	8/30/22	813	1435	18.60	1.53%	pass
1	Redox	~~250.45~~ ~~265.54~~ EGK	mV	7/30/22	805	~~243.1~~ ~~127.60~~ EGK	~~18.47~~ ~~19.11~~ EGK	13.5	Fail → Calibrat ✓
2	Turb	~~0-10~~ 8.08	NTU	—	819	7.27	—	10.02	Fail? ~~Pass~~
2	↓	~~0-100~~ 61.9	↓	—	820	60.1	—	1.80	pass
2	↓	~~0-1000~~ 520	↓	—	821	569	—	1.89	pass

Note:
1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

$9.47 - 9.28 = 0.19 \times .84 = 0.1596 + 9.28 = 9.44$

18.47 / 19.11 / x ; 15 / 241 ; 20 / 234.5

~~307.03~~ + ~~224.06~~ / 2 = ~~265.54~~
~~296.75~~ + ~~215.54~~ / 2 = 256.145

FIELD INSTRUMENT CALIBRATION LOG

GSI ENVIRONMENTAL

GSI Job No.: 6122/6123
Project Name: Anniston Spring GW Sampling
Name of Person Performing Calibration: JA
Date of Last Calibration: 4/5/2022
Date Instrument Calibrated and Used: 4/6/2022

EQUIPMENT

Equipment Type(s).:	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Water Quality	YSI	556	C2207
2. Turbidity	HANNA	HI98703	C3114
3.			

CALIBRATION STANDARDS / CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F°/C°)	% or Numeric Deviation	Pass/Fail	
1	DO	9.41	mg/L	N/A	758	9.41	18.71	± 0.00	PASS	calibrate
1	ORP	214.6	mV	7/30/22	803	214.7	18.30	+0.1	PASS	calibrate
1	Sp. cond.	1413	umhos	8/30/22	804	1415	18.65	0.14%	PASS	calibrate
1	pH	7	pH	10/30/22	808	7.02	18.65	+0.02	PASS	calibrate
1	pH	4	pH	10/30/22	810	4.01	18.83	± 0.00	PASS	calibrate
1	pH	10	pH	6/30/22	816	10.01	18.96	+ 0.01	PASS	calibrate
2	turb.	6.03	NTU	N/A	820	6.12	~18	1.5%	PASS	
2	turb.	5.86	↓	↓	821	60.1	↓	2.49%	PASS	
2	turb.	598	↓	↓	823	599	↓	0.17%	PASS	

Note:
1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

FIELD INSTRUMENT CALIBRATION LOG

GSI ENVIRONMENTAL

GSI Job No.: 6122/6123
Project Name: Anniston Spring GW sampling
Name of Person Performing Calibration: EGK
Date of Last Calibration: 4/6/22
Date Instrument Calibrated and Used: 4/7/22

EQUIPMENT

	Equipment Type(s).:	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1.	YSI	YSI	556	C2202
2.	Turbidity	Hanna	HI98703	C3117
3.				

CALIBRATION STANDARDS / CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F°/C°)	% or Numeric Deviation	Pass/Fail
1	DO	9.66	mg/L	—	7:28	7.85	17.04	1.81	FAIL → Calibrate
1	pH 4	4	—	10/30/22	740	~~255.9~~ 3.95	~~18.13~~ 17.91	0.05	PASS
1	pH 7	7	—	10/30/22	742	6.81	17.47	0.19	PASS
1	pH 10	10	—	6/30/22	748	9.84	17.81	0.16	PASS
1	specific conductance	1413	MS	8/30/22	751	1438	17.98	1.7 %	PASS
1	ReDox	~~251.92~~ MV	MV	7/30/22	732	255.9	18.13	3.98%	PASS
2	Turb.	8.08	NTU	—	755	7.48	—	7.4 %	PASS
2	Turb	61.9	NTU	—	754	60.6	—	2.1%	PASS
2	Turb	580	NTU	—	756	604	—	3.97%	PASS

Note:
1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

$9.67 - 9.47 = .2 \times .04 = .008$ ~~+ 9.47~~

$9.67 - .008 = 9.662$

$\frac{18.13}{x} \quad \frac{15}{241}$ 291.28

$\frac{18.13}{x} \quad \frac{20}{234.5}$ $212.57 = 251.92$

FIELD INSTRUMENT CALIBRATION LOG

GSI ENVIRONMENTAL

GSI Job No.: 6122 6123
Project Name: Anniston Spring GW Sampling
Name of Person Performing Calibration: JA

Date of Last Calibration: 4/6/22
Date Instrument Calibrated and Used: 4/7/22

EQUIPMENT

Equipment Type(s).:	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Water Quality	YSI	556	C2207
2. Turbidity	HANNA	HI98703	C3114
3.			

CALIBRATION STANDARDS / CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F°/C°)	% or Numeric Deviation	Pass/Fail	
1	DO	9.606	mg/L	N/A	726	9.61	17.69	±0	PASS	calibrated
1	ORP	214.6	mV	7/30/22	729	215.6	18.30	+1.00	PASS	
1	Sp.Cond.	1413	umhos	8/30/22	732	1451	18.11	2.6%	PASS	
1	pH	7	pH	10/30/22	735	7.00	17.55	±0	PASS	calibrate
1	pH	4	pH	10/30/22	741	3.99	17.84	-0.01	PASS	calibrate
1	pH	10	pH	10/30/22	744	10.09	17.96	+0.09	PASS	calibrate
2	turb.	6.03	NTU	N/A	748	5.66	~18	6.14%	PASS	
2	turb.	58.6	↓	↓	748	59.6	↓	1.68%	PASS	
2	turb.	598	↓	↓	749	600	↓	0.33%	PASS	

Note:
1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

FIELD INSTRUMENT CALIBRATION LOG

GSI ENVIRONMENTAL

GSI Job No.: 4122/4123
Project Name: Anniston Spring GW Sampling
Name of Person Performing Calibration: EGLE

Date of Last Calibration: 4/7/22
Date Instrument Calibrated and Used: 4/8/22

EQUIPMENT

	Equipment Type(s).:	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1.	YSI	YSI	556	C2202
2.	Turbidity	Hanna	HI98703	C3117
3.				

CALIBRATION STANDARDS / CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F°/C°)	% or Numeric Deviation	Pass/Fail
1	DO	10.20	mg/L	—	800	10.17	14.49	0.29%	pass
1	pH	4.01	—	10/30/22	805	3.93	14.67	0.08	pass
1	pH	7	—	10/30/22	807	6.81	13.85	0.19	pass
1	pH	10	—	10/30/22	809	9.84	14.43	0.16	pass
1	specific conductance	1413	µS	8/30/22	814	1391	14.72	1.56%	pass
1	Redox	302.9	mV	7/30/22	818	261.3	14.83	13.7%	FAIL → calibrate
2	Turb	8.08	NTU	—	757	6.95	—	13.98%	FAIL
2	Turb	61.9	NTU	—	757	60.9	—	1.62%	PASS
2	Turb	580	NTU	—	757	578	—	0.34%	~~PASS~~ PASS

Note:
1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

$10.31 - 10.08 = .23 \times .49 = 0.113$

~~pass~~ $10.31 - 0.113 = 10.197$

$\frac{14.83}{x} \quad \frac{10}{247.5} \quad \frac{14.83}{x} \quad \frac{15}{241}$

$367.04 \quad 238.27$

302.9

FIELD INSTRUMENT CALIBRATION LOG

GSI ENVIRONMENTAL

GSI Job No.: 6122 / 6123
Project Name: Anniston Spring GW Sampling
Name of Person Performing Calibration: JA
Date of Last Calibration: 4/7/22
Date Instrument Calibrated and Used: 4/8/22

EQUIPMENT

Equipment Type(s).:	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Water Quality	YSI	556	C2207
2. Turbidity	HANNA	H198703	C3114
3.			

CALIBRATION STANDARDS / CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F°/C°)	% or Numeric Deviation	Pass/Fail	
1	DO	10.23	mg/L	N/A	755	10.24	14.67	+0.01	PASS	calibrate
1	ORP	242.4	mV	7/30/22	800	242	14.69	±0.00	PASS	calibrate
1	sp.cond.	1413	umhos	8/30/22	806	1410	14.50	0.2%	PASS	calibrate
1	pH	7	pH	10/30/22	812	6.96	14.22	-0.04	PASS	calibrate
1	pH	4	pH	10/30/22	815	3.99	14.97	-0.01	PASS	
1	pH	10	pH	6/30/22	816	10.07	14.72	+0.07	PASS	
2	turb	6.03	NTU	N/A	820	5.69	~15	5.6%	PASS	
2	↓	58.6	↓	↓	820	58.1	↓	0.08%	PASS	
2	↓	598	↓	↓	821	598	↓	±0%	PASS	

Note:
1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

GSI ENVIRONMENTAL

FIELD INSTRUMENT CALIBRATION LOG

GSI Job No.: 6122/6123
Project Name: Anniston Spring GW Sampling
Name of Person Performing Calibration: EGK
Date of Last Calibration: 4/8/22
Date Instrument Calibrated and Used: 4/10/22

EQUIPMENT

	Equipment Type(s).:	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1.	YSI	YSI	556	C2202
2.	Turbidity	Hanna	HI98703	C3117
3.				

CALIBRATION STANDARDS / CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F°/C°)	% or Numeric Deviation	Pass/Fail
1	10.62 ↔ DO	mg/L	—	6135	9.85	12.33	~~10.28~~ -.77	~~Fail~~ → calibrate
1	Redox	264.69	mV	7/30/22	6145	307.4	12.89	~~42.74~~ 42.71	Fail → cal.
1	pH	4	—	10/30/22	6147	3.86	12.32	0.14	pass
1	pH	7	—	10/30/22	6151	6.76	12.07	0.24	Fail → Cal.
1	pH	10	—	6/30/22	6154	9.97	12.33	0.03	pass
1	Specific cond.	1413	MS	8/30/22	6157	1428	12.36	105%	pass
2	Turb	8.08	NTU	—	6158	6.91	—	14.5%	Fail
2	Turb	61.9	↓	—	6159	60.8	—	1.78%	pass
2	Turb	580	↓	—	6159	575	—	0.86%	pass

Note:
1. % or numeric deviation criteria for the following water quality calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following PID calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

$10.78 - 10.54 = .24 \times .33 = 0.079$
$10.54 + 0.079 = 10.62$

$\frac{12.97}{x} \quad \frac{\cancel{250.5}}{247.5}$

$\frac{12.97}{x} \quad \frac{15}{241} \quad \frac{321.00}{208.38} = 264.69$

FIELD INSTRUMENT CALIBRATION LOG

GSI ENVIRONMENTAL

GSI Job No.: 6122/6123
Project Name: Anniston Spring GW Sampling
Name of Person Performing Calibration: JA

Date of Last Calibration: 4/8/22
Date Instrument Calibrated and Used: 4/10/22

EQUIPMENT

Equipment Type(s).:	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Water Quality	YSI	556	C2207
2. Turbidity	HANNA	HI98703	C3114
3.			

CALIBRATION STANDARDS / CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F°/C°)	% or Numeric Deviation	Pass/Fail	
1	DO	10.59	mg/L	N/A	645	10.59	12.81	±0.00	PASS	calibrated
1	ORP	261.84	mV	7/30/22	655	261.8	12.90	±0.00	PASS	calibrated
1	Sp. cond.	1413	umhos	8/30/22	657	1394	12.56	1.34%	PASS	
1	pH	7	pH	10/30/22	700	6.99	12.35	-0.01	PASS	
1	pH	4	pH	10/30/22	704	3.85	12.35	-0.15	PASS	
1	pH	10	pH	6/30/22	706	10.07	12.46	+0.07	PASS	
2	turb	6.03	NTU	N/A	710	5.93	~12	1.66%	PASS	
2	↓	58.6	↓	↓	710	57.5	↓	1.88%	PASS	
2	↓	598	↓	↓	710	598	↓	0%	PASS	

Note:
1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

FIELD INSTRUMENT CALIBRATION LOG

GSI ENVIRONMENTAL

GSI Job No.: 6122/6123
Project Name: Anniston Spring GW Sampling
Name of Person Performing Calibration: EGK
Date of Last Calibration: 4/10/22
Date Instrument Calibrated and Used: 4/11/22

EQUIPMENT

Equipment Type(s).:	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. YSI	YSI	556	C2202
2. Turbidity	Hanna	HI98703	C3117
3.			

CALIBRATION STANDARDS / CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F°/C°)	% or Numeric Deviation	Pass/Fail
1	DO	9.82	mg/L	—	609	3.85	16.75	60.79 %	FAIL → Cal.
1	Redox	~~234.25~~	mV	7/30/22	614	256.4	16.86	22.15	FAIL → Cal
1	pH	4.01	—	10/30/22	621	4.15	16.28	0.05	PASS
1	pH	7	—	10/30/22	622	6.97	16.08	0.03	PASS
1	pH	10	—	10/30/22	625	9.97	15.97	0.03	PASS
1	Specific conductance	1413	~~MS~~	8/30/22	627	1413	16.10	0.0	PASS
2	Turb	8.08	NTU	—	628	8.89	—	14.72%	FAIL
2	Turb	61.9	↓	—	629	60.2	—	2.74%	PASS
2	Turb	580	↓	—	629	572	—	1.37 %	PASS

Note:
1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

$9.87 - 9.67 = 0.2 \times .75 = 0.15$

$9.67 + 0.15 = 9.82$

$\frac{16.86}{x} \cdot \frac{15}{241}$ $\quad 270.8$

$\frac{16.86}{x} \cdot \frac{20}{234.5}$ $\quad 197.7 = 234.25$

FIELD INSTRUMENT CALIBRATION LOG

GSI ENVIRONMENTAL

GSI Job No.: 6122/6123
Project Name: Anniston Spring GW Samp.
Name of Person Performing Calibration: JA

Date of Last Calibration: 4/10/2022
Date Instrument Calibrated and Used: 4/11/2022

EQUIPMENT

Equipment Type(s).:	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Water Quality	YSI	556	C2207
2. Turbidity	HANNA	HI98703	C3114
3.			

CALIBRATION STANDARDS / CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F°/C°)	% or Numeric Deviation	Pass/Fail	
1	DO	9.62	mg/L	N/A	620	9.55 ~~10.77~~ JA	16.77	-0.07	PASS	calibrated
1	ORP	234.2	mV	7/30/22	626	234.2	16.71	±0.00	PASS	calibrated
1	sp.cond	1413	umhos	6/30/22	630	1413	16.22	±0%	PASS	calibrated
1	pH	7	pH	6/30/23	633	7.01	17.81	+0.01	PASS	calibrated
1	pH	4	pH	10/30/22	638	3.99	15.95	-0.01	PASS	calibrated
1	pH	10	pH	6/30/22	640	10.14	15.76	+0.14	PASS	calibrated
2	turb	6.03	NTU	N/A	645	5.8	-16	3.8%	PASS	
2	↓	58.6	↓	↓	646	57.4	↓	2.05%	PASS	
2	↓	598	↓	↓	647	596	↓	0%	PASS	

Note:
1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.

OCTOBER 2022 CALIBRATION LOGS

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FIELD INSTRUMENT CALIBRATION LOG

GSI ENVIRONMENTAL

GSI Job No.: 6122 — Date of Last Calibration: 10/19/2022

Project Name: Fall 2022 GW Sampling - Amistad — Date Instrument Calibrated and Used: 10/24/2022

Name of Person Performing Calibration: JA/EGK

EQUIPMENT

Equipment Type(s).:	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Water Quality	In-Situ	AT600	C2909/E1104
2. Turbidity	HANNA	HI98703	C3112
3.			

CALIBRATION STANDARDS / CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F°/C°)	% or Numeric Deviation	Pass/Fail
1	DO	8.74	mg/L	N/A	1608	8.55	22.23	-0.19	PASS
1	pH	4.01	S.U.	5/30/24	1616	3.98	20.44	-0.08	PASS
1	pH	7.00	S.U.	5/30/24	1620	6.96	20.44	-0.04	PASS
1	pH	10.00	S.U.	5/30/24	1623	9.93	20.43	-0.07	PASS
1	ORP	235.1	mV	2/28/23	1626	229.2	20.28	-5.9	PASS
1	sp. cond.	1413	µS/cm	4/30/23	1631	1426.5	20.35	+0.95%	PASS
2	turb	9.05	NTU	N/A	1633	9.18	~20	+1.4%	PASS
2	↓	64.1	↓	↓	1639	65.4	↓	+1.99%	PASS
2	↓	564	↓	↓	1640	568	↓	+0.70%	PASS

Note:

1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.
3. ORP Calibration: For 3.5M KCL Zobell ORP solutions, use $STD_T = STD_{T=25} + 1.47*(25-T)$ Millivolts -OR- For 4M KCL Zobell ORP solutions, use $STD_T = STD_{T=25} + 1.3*(25-T)$ Millivolts

FIELD INSTRUMENT CALIBRATION LOG

GSI ENVIRONMENTAL

GSI Job No.: 6122
Project Name: Fall '22 Amiston GW
Name of Person Performing Calibration: EGK/JA

Date of Last Calibration: 10/24/2022
Date Instrument Calibrated and Used: 10/25/2022

EQUIPMENT

Equipment Type(s).:	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Water Quality	In-Situ	AT600	C2909/E1104
2. Turbidity	HANNA	HI 98703	C3112
3.			

CALIBRATION STANDARDS / CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F°/C°)	% or Numeric Deviation	Pass/Fail
1	DO	9.09	mg/L	N/A	651	8.94	19.77	-0.15	PASS
1	pH	4.01	S.U.	5/30/24	654	4.03	19.77	+0.02	PASS
1	pH	7.00	S.U.	5/30/24	655	7.08	19.85	+0.08	PASS
1	pH	10.00	S.U.	5/30/24	656	10.11	19.97	+0.11	PASS
1	ORP	235.5	mV	2/28/23	658	230.3	19.99	-5.24	PASS
1	sp.cond.	1413	µS/cm	4/30/23	659	1439.1	19.80	+1.8%	PASS
2	turb	9.05	NTU	N/A	701	9.23	-20	+1.95%	PASS
2	↓	64.1	↓	↓	701	65.0	↓	+1.4%	PASS
2	↓	564	↓	↓	701	566	↓	+0.4%	PASS

Note:
1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.
3. ORP Calibration: For 3.5M KCL Zobell ORP solutions, use $STD_T = STD_{T=25} + 1.47*(25-T)$ Millivolts -OR- For 4M KCL Zobell ORP solutions, use $STD_T = STD_{T=25} + 1.3*(25-T)$ Millivolts

FIELD INSTRUMENT CALIBRATION LOG

GSI ENVIRONMENTAL

GSI Job No.: 6122
Project Name: Fall '22 Anniston GW
Name of Person Performing Calibration: EGK / JA

Date of Last Calibration: 10/25/22
Date Instrument Calibrated and Used: 10/26/22

EQUIPMENT

Equipment Type(s).:	Manufacturer(s):	Model/Model Number(s):	Vendor Serial Number(s):
1. Water Quality	In-Situ	AT600	C2909 / E1104
2. Turbidity	HANNA	HI 98703	C3112
3.			

CALIBRATION STANDARDS / CALIBRATION

Equipment Type (e.g. "1")	Parameter for Calibration	Calibration Standard Value (Include +/-)	Units	Expiration Date	Time	Instrument Response	Instrument Temperature (F°/C°)	% or Numeric Deviation	Pass/Fail
2	turb	9.05	NTU	N/A	633	9.02	~20	-0.3%	PASS
2	↓	64.1	↓	↓	633	63.9	↓	-0.3%	PASS
2	↓	564	↓	↓	633	563	↓	-0.2%	PASS
1	DO	9.28	mg/L	N/A	637	9.13	18.78	-0.15	Pass
1	pH	4.01	S.u.	5/30/24	640	3.99	19.01	-0.02	pass
1	pH	7.00	S.u.	5/30/24	642	7.03	19.12	+0.03	pass
1	pH	10.00	S.u.	5/30/24	643	10.03	19.01	+0.03	pass
1	ORP	236.8	mV	2/28/23	645	244.0	18.99	-7.2	pass
1	specific conductance	1413	MS/cm	4/30/23	646	1440.3	19.15	+1.90%	pass

Note:
1. % or numeric deviation criteria for the following **water quality** calibration parameters: turbidity = ± 10%; pH = ± 0.2 standard units; specific conductance = ± 5%; ORP = ± 10 mV; DO = ± 0.2 mg/L.
2. % or numeric deviation criteria for the following **PID** calibration parameters: zero check = + 1 ppm, calibration gas check = ± 5%.
3. ORP Calibration: For 3.5M KCL Zobell ORP solutions, use $STD_T = STD_{T=25} + 1.47*(25-T)$ Millivolts -OR- For 4M KCL Zobell ORP solutions, use $STD_T = STD_{T=25} + 1.3*(25-T)$ Millivolts

$229 + 1.3(25 - 18.99) = STD_T$

2022 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia Inc. Anniston, Alabama

RCRA Post-Closure Permit ALD 004 019 048

Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDIX E

Appendix E. Historical Data Tabulation

GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

											RCRA Background Well								
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				EFFLUENT	EFFLUENT	EFFLUENT	EFFLUENT	EFFLUENT	EFFLUENT	MW-01B	MW-01B	MW-01B	MW-01B	MW-01B	MW-01B	MW-01B	MW-01B	MW-01B
Sample Date:		RCRA Concentration Limits	CERCLA Remediation Goals	4/11/2018	4/16/2019	5/18/2020	4/20/2021	4/11/2022	10/22/2022	4/8/2018	10/26/2018	4/13/2019	10/9/2019	5/16/2020	10/21/2020	4/14/2021	10/13/2021	4/8/2022
Sample Type:				N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Filtered:				No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Sample ID:				Purge Water	Purge Water	Purge Water	Purge Water	PURGEWATER	Purge water	MW-01B	MW-01B	MW-01B	MW-01B	MW-01B	MW-01 B	MW-01B	MW-01B	MW-01B
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	-	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	-	-	-	-	<10	-	<10	-	<1 J	-	<1	-	<10
1,4-Dichlorobenzene	106-46-7	**77**	--	-	-	-	-	-	-	<10	-	<10	-	<1 J	-	<1	-	<10
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	-	-	-	-	-	-	<25	<25	<25	<25	<25 J	<25 J	<25	<25	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	-	-	-	-	-	<10	<10	<10	<10	<10 J	<10 J	<10	<10	<10
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5 J	<0.5	<0.5 R	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5 J	<0.5	<0.5 R	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5 J	<0.5	<0.5 R	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5 J	<0.5	<0.5 R	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5 J	<0.5	<0.5 R	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5 J	<0.5	<0.5 R	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5 J	<0.5	<0.5 R	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5 J	<0.5	<0.5 R	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5 J	<0.5	<0.5 R	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	-	-	-	-	-	-	<1	<1	<1	<1	<1 R	<1	<1	<1	<1
Sulfotepp	3689-24-5	**6**	**7**	-	-	-	-	-	-	<1.5	<1.5	<1.5	<1.5	<0.5 R	<1.5	<1.5	<1.5	<1.5
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	**694**	**73**	-	-	-	-	-	-	<10	<10	<10	<10	<10	<10	<10	<10	<10
Manganese	7439-96-5	--	**880**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	**2**	**2**	-	-	-	-	-	-	<0.2 J	-	<0.2 J	-	<0.2	-	<0.2	-	<0.2

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act
   SIM = Selected ion monitoring

GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

			RCRA Background Well	RCRA Groundwater Detection Monitoring														
Matrix:	RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:			MW-01B	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-12A	MW-12A	MW-12A	MW-12A
Sample Date:			10/25/2022	4/8/2018	10/27/2018	4/11/2019	10/9/2019	5/16/2020	10/22/2020	4/14/2021	10/13/2021	4/5/2022	10/26/2022	4/8/2018	10/26/2018	4/11/2019	10/10/2019	
Sample Type:			N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Filtered:			No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
Sample ID:			MW-01B	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-12A	MW-12A	MW-12A	MW-12A	
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	**77**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	<25 J	<25 H	<25	<25	<25	<25	<25 J	<25	<25	<25 J	<25	<25	<25	<25	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	<10 J	<10 H	<10	11	<10	<10	<10 J	<10	<10	<10 J	<10	13	<10	11	<10
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1
Sulfotepp	3689-24-5	**6**	**7**	<1.5 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	**694**	**73**	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	**880**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	**2**	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act
   SIM = Selected ion monitoring

GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Groundwater Detection Monitoring															
Matrix:		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A
Sample Date:				5/16/2020	10/22/2020	4/13/2021	10/13/2021	4/10/2022	10/25/2022	4/8/2018	10/26/2018	4/11/2019	10/10/2019	5/15/2020	10/22/2020	4/13/2021	10/12/2021	4/5/2022	
Sample Type:				N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Filtered:				No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
Sample ID:				MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-12A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	MW-13A	
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
VOCs by Methods 8260B and 8260D																			
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	108-90-7	**102**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																			
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,4-Dichlorobenzene	106-46-7	**77**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Nitrophenol	100-02-7	**128**	**125**	<25	<25	<25	<25	<25	<25 J	<25	<25	<25	<25	<25	<25	<25	<25	<25	
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	10	<10	12 J	<10	21	<10 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PCBs, Aroclor Specific by Method 8081B/8082A																			
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	
PCBs, Homolog Specific by Methods 680 and EPA 680																			
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pesticides by Method 8141B																			
Parathion	56-38-2	**75**	**85**	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Sulfotepp	3689-24-5	**6**	**7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals by Methods 6010C, 6010D, and 7470A																			
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	7440-48-4	**694**	**73**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	7439-96-5	--	**880**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mercury	7439-97-6	**2**	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act
   SIM = Selected ion monitoring

GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Groundwater Detection Monitoring		RCRA Corrective Action Monitoring												
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-13A-R	MW-13A-R	MW-08	MW-08	MW-08	MW-08	MW-08	MW-09A	MW-09A	MW-09A	MW-09A	MW-09A	MW-14	MW-14	MW-14
Sample Date:		RCRA Concentration Limits	CERCLA Remediation Goals	10/26/2022	10/26/2022	4/5/2018	4/16/2019	5/18/2020	4/14/2021	4/10/2022	4/5/2018	4/15/2019	5/18/2020	4/14/2021	4/10/2022	4/5/2018	4/16/2019	5/18/2020
Sample Type:				N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Filtered:				No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No
Sample ID:				MW-13A-R	MW-13A-RF	MW-08	MW-08	MW-08	MW-08	MW-08	MW-09A	MW-09A	MW-09A	MW-09A	MW-09A	MW-14	MW-14	MW-14
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	<10	<10	<1	<1	<10	<10	<10	<1 J	<1	<10	<10	<10	<1
1,4-Dichlorobenzene	106-46-7	**77**	--	-	-	<10	<10	<1	<1	<10	<10	<10	<1 J	<1	<10	<10	<10	<1
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	<25	-	<25	<25	<25	<25	<25	<25	<25	<25 J	<25	<25	<25	<25	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	<10	-	<10	<10	<10	<10	<10	<10	<10	<10 J	<10	<10	<10	<10	<10
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	0.57	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	0.57	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	<1	-	<1	<1	<1	<1	<1	<1	<1	<1 J	<1	<1	<1	<1	1.8 J
Sulfotepp	3689-24-5	**6**	**7**	-	-	<1.5	<1.5	<0.5	<1.5	<1.5	<1.5	<1.5	<0.5 J	<1.5	<1.5	<1.5	<1.5	<0.5
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	**694**	**73**	-	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Manganese	7439-96-5	--	**880**	-	-	-	-	-	-	-	-	-	-	-	-	<10	<10	<10
Mercury	7439-97-6	**2**	**2**	-	-	<0.2 J	<0.2 J	<0.2	<0.2	<0.2	<0.2 J	<0.2 J	<0.2	<0.2	<0.2	<0.2 J	<0.2 J	<0.2

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
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   SIM = Selected ion monitoring

GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring														
Matrix:		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-14	MW-14	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15	MW-15
Sample Date:				4/14/2021	4/10/2022	4/4/2018	4/4/2018	10/24/2018	4/10/2019	4/10/2019	10/8/2019	5/13/2020	5/13/2020	10/22/2020	4/16/2021	4/16/2021	10/13/2021	4/8/2022
Sample Type:				N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Filtered:				No	No	No	Yes	No	No	Yes	No	No	Yes	No	No	Yes	No	No
Sample ID:				MW-14	MW-14	MW-15	MW-15F	MW-15	MW-15	MW-15 F	MW-15	MW-15	MW-15 F	MW-15	MW-15	MW-15F	MW-15	MW-15
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	<1	<1	<1	-	<1	<1	-	<1	<1	-	<1	<1	-	<1	<1
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	<1	<10	<10	-	-	<10	-	-	<1	-	-	<1	-	-	<10
1,4-Dichlorobenzene	106-46-7	**77**	--	<1	<10	<10	-	-	<10	-	-	<1	-	-	<1	-	-	<10
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	<25	<25	<25	-	<25	<25	-	<25 J	<25	-	<25	<25	-	<25	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	<10	<10	<10	-	<10	<10	-	<10	<10	-	<10	<10	-	<10	<10
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5	<0.5	<0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	<1	<1	<1	-	<1	<1	-	<1 J	<1	-	<1	<1	-	<1	<1
Sulfotepp	3689-24-5	**6**	**7**	<1.5	<1.5	<1.5	-	<1.5	<1.5	-	<1.5	<0.5	-	<1.5	<1.5	-	<1.5	<1.5
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	**694**	**73**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Manganese	7439-96-5	--	**880**	39	27	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	**2**	**2**	<0.2	<0.2	0.2 J	<0.2 J	-	0.88 J	<0.2 J	-	<0.2	<0.2	-	0.24	0.36	-	<0.2

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
J = Estimated concentration;
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Dup = Duplicate sample
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PCBs = Polychlorinated biphenyls
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GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring														
Matrix:		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-15	MW-15	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
Sample Date:				4/8/2022	10/25/2022	4/4/2018	10/24/2018	4/10/2019	4/10/2019	10/8/2019	5/13/2020	5/13/2020	10/21/2020	4/15/2021	4/15/2021	10/12/2021	4/8/2022	4/8/2022
Sample Type:				N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Filtered:				Yes	No	No	No	No	Yes	No	No	Yes	No	No	Yes	No	No	Yes
Sample ID:				MW-15F	MW-15	MW-16	MW-16	MW-16	MW-16 F	MW-16	MW-16	MW-16 F	MW-16	MW-16	MW-16F	MW-16	MW-16	MW-16F
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	-	<1	<1	<1	<1	-	<1	<1	-	<1	<1	-	<1	<1	-
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	<10	-	<10	-	-	<1	-	-	<1	-	-	<10	-
1,4-Dichlorobenzene	106-46-7	**77**	--	-	-	<10	-	<10	-	-	<1	-	-	<1	-	-	<10	-
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	-	<25 J	53	57	51	-	<25	65	-	44 J	120	-	35	87	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	<10 J	53	51	45	-	25	47	-	32 J	87	-	52	47	-
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<0.87	<0.5	<0.5	<0.5 J	<0.5 J	<0.5 J
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<0.92	<0.5	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.6	<0.5	<0.5	<1.2	<0.5	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<0.92	<0.5	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<0.53	<0.5	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<0.58	<0.5	<0.5	<0.5 J	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.58	<0.5	<0.5	<1.2	<0.5	<0.5	<0.5 J	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<1 R	<0.6	<0.5	<0.5	<1.2	<0.5	<0.5	<0.5 J	<0.5	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	-	<1 J	<1	<1	<1.4	-	<1	<1	-	<1 J	<1 J	-	<1	<1	-
Sulfotepp	3689-24-5	**6**	**7**	-	<1.5 J	<1.5	<1.5	<1.6	-	<1.5	<0.5	-	<1.5 J	<1.5 J	-	<1.5	<1.5	-
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	**694**	**73**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Manganese	7439-96-5	--	**880**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	**2**	**2**	<0.2	-	<0.2 J	-	<0.2 J	<0.2 J	-	0.26	<0.2	-	0.21	<0.2	-	1.2	<0.2

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act
   SIM = Selected ion monitoring

GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring														
Matrix:		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-16	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A
Sample Date:				10/25/2022	4/4/2018	4/4/2018	4/4/2018	4/4/2018	10/25/2018	10/25/2018	4/10/2019	4/10/2019	4/10/2019	10/9/2019	10/9/2019	5/13/2020	5/13/2020	5/13/2020
Sample Type:				N	N	N	Dup	Dup	N	Dup	N	N	Dup	N	Dup	N	N	Dup
Filtered:				No	No	Yes	No	Yes	No	No	No	Yes	No	No	No	No	Yes	No
Sample ID:				MW-16	MW20A	MW20AF	Field Duplicate	Field Duplicate F	MW-20A	DUPLICATE	MW-20A	MW-20A F	Field Duplicate 1	MW-20A	Duplicate	MW-20A	MW-20A F	FIELD DUPLICATE 1
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	<5	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	<1	2.1	-	2.2	-	2.1	2	2.2	-	2.1	2.3	2.4	2.3	-	2
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	-	<10	-	<10	-	-	-	<10	-	<10	-	-	2 J	-	2.9 J
1,4-Dichlorobenzene	106-46-7	**77**	--	-	<10	-	<10	-	-	-	<10	-	<10	-	-	1.2 J	-	1.4 J
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	<10	-	<10	-	-	-	<10	-	<10	-	-	<10	-	<10
4-Nitrophenol	100-02-7	**128**	**125**	25 J	<25	-	<25	-	<25	<25	<25	-	<25	<25	<25 J	<25	-	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	49 J	64	-	55	-	76	78	68	-	46	52	60 J	37	-	52
Pentachlorophenol	87-86-5	**1**	**1**	-	<50	-	<50	-	-	-	<50	-	<50	-	-	<50	-	<50
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	7	-	6.1	-	-	-	<1 J	-	<1 J	-	-	8.5	-	11
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1 R	<0.59	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<1 R	<0.59	<0.5	<0.5	<0.5	<0.5 J	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	<1 J	<1	-	<1	-	<1	<1	<1	-	<1	<1	<1	<1	-	<1
Sulfotepp	3689-24-5	**6**	**7**	<1.5 J	<1.5	-	<1.5	-	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<0.5	-	<0.5
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	**694**	**73**	<10	<10	-	<10	-	<10	<10	<10	-	<10	<10	<10	<10	-	<10
Manganese	7439-96-5	--	**880**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	**2**	**2**	-	<0.2 J	-	<0.2 J	-	-	-	<0.2 J	-	<0.2 J	-	-	<0.2 J	-	<0.2 J

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
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GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring														
Matrix:		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	OW-06A	OW-06A	OW-06A
Sample Date:				10/21/2020	10/21/2020	4/16/2021	4/16/2021	4/16/2021	10/12/2021	10/12/2021	4/5/2022	4/5/2022	4/5/2022	10/26/2022	10/26/2022	4/8/2018	4/15/2019	5/18/2020
Sample Type:				N	Dup	N	N	Dup	N	Dup	N	N	Dup	N	Dup	N	N	N
Filtered:				No	No	No	Yes	No	No	No	No	Yes	No	No	No	No	No	No
Sample ID:				MW-20 A	Duplicate	MW-20A	MW-20AF	Field Duplicate 1	MW-20A	Duplicate	MW-20A	MW-20AF	Field Duplicate 1	MW-20A	DUPLICATE	OW-06A	OW-06A	OW-06A
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	3.9	4	2.1	-	2.1	2.1	2.1	<1	-	<1	1.4	1.8	<1	<1	<1
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	2.6 J	-	2.6 J	-	-	<10	-	<10	-	-	<10	<10 J	<1
1,4-Dichlorobenzene	106-46-7	**77**	--	-	-	1.3 J	-	1.2 J	-	-	<10	-	<10	-	-	<10	<10 J	<1
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	<10	-	<10	-	-	<10	-	<10	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	<25 J	<25 J	<25	-	<25	<25	<25	<25	-	<25	<25	<25	<25	<25 J	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	34 J	33 J	66	-	69	78 J	75 J	42	-	34	39	45	<10	<10	<10
Pentachlorophenol	87-86-5	**1**	**1**	-	-	<50	-	<50	-	-	<50	-	<50	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	3.7	-	3.7	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 R	<0.5	<0.5 R	<0.5 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	<1	<1	<1	-	<1	<1	<1 H	<1	-	<1	<1	<1 J	<1	<1	<1
Sulfotepp	3689-24-5	**6**	**7**	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5 H	<1.5	-	<1.5	<1.5	<1.5 J	<1.5	<1.5	<0.5
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	**694**	**73**	<10	<10	<10	-	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10
Manganese	7439-96-5	--	**880**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	**2**	**2**	-	-	<0.2	-	<0.2	-	-	<0.2 J	-	<0.2 J	-	-	<0.2 J	<0.2 J	<0.2

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act
   SIM = Selected ion monitoring

GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring														
Matrix:		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OW-06A	OW-06A	OW-08A	OW-08A	OW-08A	OW-08A	OW-08A	OW-08A	OW-08A	OW-08A	OW-08A	OW-08A	OW-15	OW-15	OW-15
Sample Date:				4/14/2021	4/8/2022	4/4/2018	4/4/2018	4/10/2019	4/10/2019	5/15/2020	5/15/2020	4/15/2021	4/15/2021	4/5/2022	4/5/2022	4/4/2018	4/4/2018	4/10/2019
Sample Type:				N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Filtered:				No	No	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Sample ID:				OW-06A	OW-06A	OW-08A	OW-08A F	OW-08A	OW-08A F	OW-08A	OW-08A F	OW-08A	OW-08AF	OW-08A	OW-08AF	OW-15	OW-15 F	OW-15
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	<1	<1	<1	-	<1	-	<1	-	<1	-	<1	-	<1	-	<1
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	<1	<10	<10	-	<10	-	<1	-	<1	-	<1	-	<10	-	<10 J
1,4-Dichlorobenzene	106-46-7	**77**	--	<1	<10	<10	-	<10	-	<1	-	<1 J	-	<1	-	<10	-	<10 J
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	<25	<25	<25	-	<25	-	<25	-	<8 J	-	<25	-	<25	-	<25 J
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	<10	-	<10	-	<10	-	<0.2	-	<0.2	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	<10	<10	<10	-	<10	-	<10	-	<1	-	<1	-	<10	-	<10 J
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	<5	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5 J	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<1 R	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	1.3	<1 R	1.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<1 R	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<1 R	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	5.7	1.5	2	<1	5.7 J	<0.5	4.2	<0.5 J	3.2	<0.5	<0.5	<1 R	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	3.3	1.4	1.6	<1	<0.5	<0.5	2.1	<0.5 J	1.9	<0.5	<0.5	<1 R	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	0.71	<1	<0.5	<1	<0.5	<0.5	1.2	<0.5 J	0.58	<0.5	<0.5	<1 R	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<1 R	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5	<0.5	9.71	2.9	3.6	<1	5.7 J	<0.5	7.5	<0.5 J	5.68	<0.5	1.3	<1 R	1.5
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	<1	<1	<1	-	<1	-	<1	-	<1	-	<1	-	<1	-	<1
Sulfotepp	3689-24-5	**6**	**7**	<1.5	<1.5	<1.5	-	<1.5	-	<0.5	-	<1.5	-	<1.5	-	<1.5	-	<1.5
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	**694**	**73**	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
Manganese	7439-96-5	--	**880**	-	-	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-
Mercury	7439-97-6	**2**	**2**	<0.2	<0.2	<0.2 J	-	<0.2 J	<0.2 J	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2 J	-	<0.2 J

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act
   SIM = Selected ion monitoring

GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring														
Matrix:		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OW-15	OW-15	OW-15	OW-15	OW-15	OW-15	OW-15	OW-16A	OW-16A	OW-16A	OW-16A	OW-16A	OW-16A	OW-16A	OW-16A
Sample Date:				4/10/2019	5/13/2020	5/13/2020	4/16/2021	4/16/2021	4/5/2022	4/5/2022	4/4/2018	4/4/2018	4/10/2019	4/10/2019	5/13/2020	5/13/2020	4/15/2021	4/15/2021
Sample Type:				N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Filtered:				Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
Sample ID:				OW-15 F	OW-15	OW-15 F	OW-15	OW-15F	OW-15	OW-15F	OW-16A	OW-16A F	OW-16A	OW-16A F	OW-16A	OW-16A F	OW-16A	OW-16AF
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	480	-	490 J	-	350	-	350	-
Chlorobenzene	108-90-7	**102**	--	-	<1	-	<1	-	<1	-	1.2	-	<1	-	<1.3	-	<1.3	-
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	-	<1	-	2 J	-	<10	-	<10	-	<10	-	1.7 J	-	2.4 J	-
1,4-Dichlorobenzene	106-46-7	**77**	--	-	<1	-	<1	-	<10	-	<10	-	<10	-	1.1 J	-	1.9 J	-
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	-	<25	-	<25	-	<25	-	<25	-	<25	-	<25	-	<25	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-	<10	-
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<1 J	<0.5	<1 J	<0.5	<0.5 J	<0.5	<0.5 J
Aroclor 1221	11104-28-2	--	--	<1	2.3	<0.5	<0.5	<0.5	<0.5	<0.5 J	98	<1 J	<0.5	<1 J	3.7	<0.5 J	83	1.8 J
Aroclor 1232	11141-16-5	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	62	<1 J	12	<1 J	<0.5	<0.5 J	<0.5	<0.5 J
Aroclor 1242	53469-21-9	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<1 J	<0.5	<1 J	<0.5	<0.5 J	<0.5	<0.5 J
Aroclor 1248	12672-29-6	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<1 J	<0.5	<1 J	13	<0.5 J	29	<0.5 J
Aroclor 1254	11097-69-1	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	22	<1 J	13	<1 J	8.3	<0.5 J	15	<0.5 J
Aroclor 1260	11096-82-5	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<1 J	<0.5	<1 J	<0.5	<0.5 J	<0.5	<0.5 J
Aroclor 1268	11100-14-4	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.58	<1 J	<0.5	<1 J	<0.5	<0.5 J	<0.5	<0.5 J
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<1	2.3	<0.5	<0.5	<0.5	<0.5	<0.5 J	182	<1 J	25	<1 J	25	<0.5 J	127	1.8 J
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	-	<1	-	<1	-	<1	-	18	-	15	-	23	-	9.3	-
Sulfotepp	3689-24-5	**6**	**7**	-	<0.5	-	<1.5	-	<1.5	-	<1.5	-	<1.5	-	<1.6	-	<1.5	-
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	**694**	**73**	<10	<10	<10	<10	<10	<10	<10	37	38	37	40	41	41	40	40
Manganese	7439-96-5	--	**880**	-	-	-	-	-	-	-	750	780	760	820	850	850	840	860
Mercury	7439-97-6	**2**	**2**	<0.2 J	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2 J	-	<0.2 J	<0.2 J	<0.2	<0.2	<0.2	<0.2

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
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   SIM = Selected ion monitoring

GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring															
Matrix:		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OW-16A	OW-16A	OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-21A	OW-22	OW-22	OW-22
Sample Date:				4/5/2022	4/5/2022	4/5/2018	4/5/2018	4/11/2019	4/11/2019	5/16/2020	5/16/2020	4/15/2021	4/15/2021	4/10/2022	4/10/2022	4/5/2018	4/5/2018	4/11/2019	
Sample Type:				N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Filtered:				No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Sample ID:				OW-16A	OW-16AF	OW-21A	OW-21A F	OW-21A	OW-21A F	OW-21A	OW-21A F	OW-21A	OW-21AF	OW-21A	OW-21AF	OW-22	OW-22 F	OW-22	
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
VOCs by Methods 8260B and 8260D																			
1,2,4-Trichlorobenzene	120-82-1	--	**70**	550	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	108-90-7	**102**	--	<1	-	<5.2	-	<13	-	14	-	<13	-	8.8 J	-	<1	-	<1 R	
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																			
1,2-Dichlorobenzene	95-50-1	**612**	--	<10	-	17	-	<10	-	13	-	17 J	-	15	-	<10	-	<10	
1,4-Dichlorobenzene	106-46-7	**77**	--	<10	-	<10	-	<10	-	4 J	-	<5.3	-	<10	-	<10	-	<10	
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Nitrophenol	100-02-7	**128**	**125**	<25	-	11000	-	11000	-	35000	-	18000	-	9800	-	<25	-	<25	
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	<10	-	210	-	200	-	310	-	270	-	150	-	<10	-	<10	
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PCBs, Aroclor Specific by Method 8081B/8082A																			
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<1 R	<2.4 R	<0.5 R	<0.87	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	
Aroclor 1221	11104-28-2	--	--	56 J	<0.5	41	<1 R	<2.4 J	<0.5	<0.92	<0.5	15	<0.5	12	<0.5	<0.5	<1	<0.5	
Aroclor 1232	11141-16-5	--	--	<1.8 J	<0.5	<0.5	<1 R	<2.4 J	<0.5	<1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<1 R	<2.4 J	<0.5	<0.92	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	41	<1 R	<2.4 J	<0.5	35	<0.5	40	<0.5	19	<0.5	1.5	<1	0.89	
Aroclor 1254	11097-69-1	--	--	13 J	<0.5	5	<1 R	<2.4 J	<0.5	<0.53	<0.5	17	<0.5	<0.5	<0.5	<0.5	<1	<0.5	
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<1 R	<2.4 J	<0.5	<0.58	<0.5	1.8	<0.5	0.88	<0.5	<0.5	<1	<0.5	
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<1 R	<2.4 J	<0.5	<1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	69 J	<0.5	87	<1 R	<2.4 J	<0.5	35	<0.5	73.8	<0.5	31.88	<0.5	1.5	<1	0.89	
PCBs, Homolog Specific by Methods 680 and EPA 680																			
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pesticides by Method 8141B																			
Parathion	56-38-2	**75**	**85**	14	-	1500 J	-	2900	-	4900 J	-	3300 J	-	280	-	<1	-	<1	
Sulfotepp	3689-24-5	**6**	**7**	<1.5	-	<32 J	-	<16	-	<160 J	-	<81 J	-	<1.6	-	<1.5	-	<1.5	
Metals by Methods 6010C, 6010D, and 7470A																			
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	7440-48-4	**694**	**73**	42	42	34	32	32	31	28	30	35	34	37	32	<10	-	<10	
Manganese	7439-96-5	--	**880**	870	860	780	740	740	800	700	760	880	820	900	800	-	-	-	
Mercury	7439-97-6	**2**	**2**	<0.8	<0.2	<0.2 J	-	<0.2 J	<0.2 J	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2 J	-	<0.2 J	

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
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3. Data Flags:
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GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				RCRA Corrective Action Monitoring							CERCLA Remedial Action							
Matrix:		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OW-22	OW-22	OW-22	OW-22	OW-22	OW-22	OW-22	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10
Sample Date:				4/11/2019	5/16/2020	5/16/2020	4/17/2021	4/17/2021	4/10/2022	4/10/2022	4/10/2018	4/10/2018	4/10/2018	4/10/2018	4/12/2019	4/12/2019	4/12/2019	4/12/2019
Sample Type:				N	N	N	N	N	N	N	N	N	Dup	Dup	N	N	Dup	Dup
Filtered:				Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
Sample ID:				OW-22 F	OW-22	OW-22 F	OW-22	OW-22 F	OW-22	OW-22F	OW-10	OW-10F	Field Duplicate 4	Field Duplicate 4 F	OW-10	OW-10F	Field Duplicate 4	Field Duplicate 4F
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	-	<1	-	<1	-	<1	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	<1	-	<1	-	3.3	-	3.8 J	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	-	<1	-	<1	-	<10	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	**77**	--	-	<1	-	<10	-	<10	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	-	<25	-	<25	-	<25	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	<10	-	<10	-	<10	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<1	<0.5 J	<1	<0.5	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	10	<0.5 J	12	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	1.4	<1	1.2 J	<1	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<1	<0.5 J	<1	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<1	1.1 J	<0.5	1.6	<0.5	0.84	<0.5 J	<0.5	<1	<0.5 J	<1	0.67 J	<0.5	0.73 J	<0.5
Aroclor 1254	11097-69-1	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<1	<0.5 J	<1	0.88 J	<0.5	1.2 J	<0.5
Aroclor 1260	11096-82-5	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<1	<0.5 J	<1	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<1	<0.5 J	<1	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<1	1.1 J	<0.5	1.6	<0.5	0.84	<0.5 J	1.4	10	1.2 J	12	1.55 J	<0.5	1.93 J	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	-	<1	-	<1 J	-	<1	-	-	-	-	-	-	-	-	-
Sulfotepp	3689-24-5	**6**	**7**	-	<0.5	-	<1.5 J	-	<1.5	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	<4	6.3	<4	5.8	<4	4.8 J	<4	4 J
Cobalt	7440-48-4	**694**	**73**	<10	<10	<10	<10	<10	<10	<10	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	**880**	-	-	-	-	-	-	-	65	2000	67	2000	1400	860	1500	710
Mercury	7439-97-6	**2**	**2**	<0.2 J	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1 J	1.7 J	0.84 J	0.81 J	2.1 J	2.8 J	2.1 J	2.5 J

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
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Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action														
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OW-10	OWR-03S	OWR-03S	OWR-03S
Sample Date:				5/15/2020	5/15/2020	5/15/2020	5/15/2020	4/17/2021	4/17/2021	4/17/2021	4/17/2021	4/11/2022	4/11/2022	4/11/2022	4/11/2022	4/9/2018	4/15/2019	5/14/2020
Sample Type:				N	N	Dup	Dup	N	N	Dup	Dup	N	N	Dup	Dup	N	N	N
Filtered:				No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	No	No
Sample ID:				OW-10	OW-10 F	Field Duplicate 4	Field Duplicate 4 F	OW-10	OW-10 F	Field Duplicate 4	Field Duplicate 4 F	OW-10	OW-10F	Field Duplicate 4	Field Duplicate 4F	OWR-03S	OWR-03S	OWR-03S
Analyte	CASNo	RCRA Concentration Limits µg/L	CERCLA Remediation Goals µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	**5**	3.5 J	-	4.8 J	-	3.9	-	4	-	3.7	-	3.6	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	**77**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5	<0.5 R	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.7 J	<0.5	1.9 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.7 J	<0.5	1.9 J	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfotepp	3689-24-5	**6**	**7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	<4	<4	<4	<4	<4	<4 J	<4	4.5 J	<4	<4	<4	<4	-	-	-
Cobalt	7440-48-4	**694**	**73**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	**880**	1300	1300	1300	1200	1200	1300	1200	1300	1100	1100	1100	1000	-	-	-
Mercury	7439-97-6	**2**	**2**	5.1	4.4	4.7	3.8	3.6	4.1 J	4.1	6.4 J	12 J	13 J	2.3 J	2.2 J	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act
   SIM = Selected ion monitoring

GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action														
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OWR-03S	OWR-03S	OWR-11	OWR-11	OWR-11	OWR-11	OWR-11	OWR-11	OWR-11	OWR-11	OWR-11	OWR-11	OWR-13	OWR-13	OWR-13
Sample Date:				4/15/2021	4/6/2022	4/10/2018	4/10/2018	4/16/2019	4/16/2019	5/15/2020	5/15/2020	4/19/2021	4/19/2021	4/7/2022	4/7/2022	4/6/2018	4/6/2018	4/12/2019
Sample Type:				N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Filtered:				No	No	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Sample ID:				OWR-3S	OWR-3S	OWR-11	OWR-11F	OWR-11	OWR-11F	OWR-11	OWR-11 F	OWR-11	OWR-11 F	OWR-11	OWR-11F	OWR-13	OWR-13F	OWR-13
Analyte	CASNo	RCRA Concentration Limits	CERCLA Remediation Goals	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	**77**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5 J	<0.5	<0.5	<1	<0.5 R	<0.5 R	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<1	<0.5 R
Aroclor 1221	11104-28-2	--	--	<0.5 J	<0.5	190	<1	200	<0.5 J	180	<0.5	140	46	170	9.6	<0.5	<1	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5 J	<0.5	190	2.9	150	<0.5 J	<0.5	<0.5	140	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5 J	<0.5	<0.5	<1	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5 J	<0.5	<0.5	<1	<0.5	<0.5 J	<5	<0.5	<0.5	23	70	<0.5	2.5	1.6	19
Aroclor 1254	11097-69-1	--	--	<0.5 J	<0.5	<0.5	<1	<0.5	<0.5 J	<0.5	<0.5	16	<0.5	<0.5	<0.5	7	5.6	9.3
Aroclor 1260	11096-82-5	--	--	<0.5 J	<0.5	4.7	<1	1.8	<0.5 J	<0.5	<0.5	3.5	1.2	<0.5	<0.5	2.4	1.3	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5 J	<0.5	<0.5	<1	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.72	<1	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5 J	<0.5	384.7	2.9	351.8	<0.5 J	180	<0.5	299.5	70.2	240	9.6	12.62	8.5	28.3
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	0.43	0.3	0.39
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	0.8	0.58	0.98
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	<0.3	<0.3	<0.3
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	4.9	3.5	6.1
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	9.5	7.5	11
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	0.54	0.44	0.44
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	16.17	12.32	18.91
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfotepp	3689-24-5	**6**	**7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	**694**	**73**	-	-	170	160	170	170	160	160	150	150	140	140	-	-	-
Manganese	7439-96-5	--	**880**	-	-	3500	3300	3200	3400	3200	3300	3200	3100	2600	2700	-	-	-
Mercury	7439-97-6	**2**	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SVOCs = Semi-volatile organic compound
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   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
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   SIM = Selected ion monitoring

GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action														
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OWR-13	OWR-13	OWR-13	OWR-13	OWR-13	OWR-13	OWR-13	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D
Sample Date:				4/12/2019	5/14/2020	5/14/2020	4/19/2021	4/19/2021	4/7/2022	4/7/2022	4/6/2018	4/6/2018	4/6/2018	4/12/2019	4/12/2019	4/12/2019	4/12/2019	5/15/2020
Sample Type:				N	N	N	N	N	N	N	N	N	Dup	N	N	Dup	Dup	N
Filtered:				Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	No	Yes	No	Yes	No
Sample ID:				OWR-13 F	OWR-13	OWR-13 F	OWR-13	OWR-13 F	OWR-13	OWR-13F	OWR-14D	OWR-14D F	Field Duplicate 2	OWR-14D	OWR-14D F	Field Duplicate 2	Field Duplicate 2F	OWR-14D
Analyte	CASNo	RCRA Concentration Limits µg/L	CERCLA Remediation Goals µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	**77**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5 R	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5 J	<0.5	<1	<0.5	<0.5 R	<0.5 R	<0.5 R	<0.5 R	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	8.5 J	<0.5	5.3	<0.5	0.72	2.5	1.7	<0.5	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1254	11097-69-1	--	--	<0.5	43	<0.5	5.5 J	<0.5	5.9	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	5.4	<0.5	1.7 J	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5	48.4	<0.5	15.7 J	<0.5	11.2	<0.5	0.72	2.5	1.7	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	<0.5	<0.48	<0.48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.48
Dichlorobiphenyl	25512-42-9	--	--	<0.1	<0.095	<0.095	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.11	<0.1	<0.096
Heptachlorobiphenyl	28655-71-2	--	--	<0.3	2.6	<0.29	0.51	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.29
Hexachlorobiphenyl	26601-64-9	--	--	<0.2	5.3	<0.19	0.7	<0.2	0.39	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.19
Monochlorobiphenyl	27323-18-8	--	--	<0.1	<0.095	<0.095	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.096
Nonachlorobiphenyl	53742-07-7	--	--	<0.5	0.51	<0.48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.48
Octachlorobiphenyl	55722-26-4	--	--	<0.3	-	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-
Octachlorobiphenyls	31472-83-0	--	--	-	1.3	<0.29	-	-	-	-	-	-	-	-	-	-	-	<0.29
Pentachlorobiphenyl	25429-29-2	--	--	<0.2	21	<0.19	4.5	0.39	2.2	<0.2	<0.2	0.34	0.27	<0.2	<0.2	<0.2	<0.2	0.29
Tetrachlorobiphenyl	26914-33-0	--	--	<0.2	27	<0.19	6.3	0.59	3.1	0.24	0.84	1.3	1.2	0.54	<0.2	0.46	<0.2	0.68
Trichlorobiphenyl	25323-68-6	--	--	<0.1	0.81	<0.095	0.3	<0.1	0.16	<0.1	0.31	0.44	0.4	0.3	<0.1	0.28	<0.1	0.73
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	<0.5	58.52	<0.48	12.31	0.98	5.85	0.24	1.15	2.08	1.87	0.94	<0.5	0.85	<0.5	1.7
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfotepp	3689-24-5	**6**	**7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	**694**	**73**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	**880**	-	-	-	-	-	-	-	36	<10	42	210	<10	200	<10	25
Mercury	7439-97-6	**2**	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
J = Estimated concentration;
R = Rejected;
-- = not applicable;
- = not analyzed.
4. Abbreviatio PCBs = Polychlorinated biphenyls
Dup = Dupli SVOCs = Semi-volatile organic compound
N = Original VOCs = Volatile organic compound
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
RCRA = Resource Conservation and Recovery Act
SIM = Selected ion monitoring

GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action															
Matrix:		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-14D	OWR-15D	OWR-15D	OWR-15D	OWR-15D
Sample Date:				5/15/2020	5/15/2020	5/15/2020	4/19/2021	4/19/2021	4/19/2021	4/19/2021	4/6/2022	4/6/2022	4/6/2022	4/6/2022	4/10/2018	4/10/2018	4/16/2019	4/16/2019	
Sample Type:				N	Dup	Dup	N	N	Dup	Dup	N	N	Dup	Dup	N	N	N	N	
Filtered:				Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	
Sample ID:				OWR-14D F	FIELD DUPLICATE 2	Field Duplicate 2 F	OWR-14D	OWR-14D F	Field Duplicate 2	Field Duplicate 2 F	OWR-14D	OWR-14DF	Field Duplicate 2	Field Duplicate 2F	OWR-15D	OWR-15D F	OWR-15D	OWR-15DF	
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
VOCs by Methods 8260B and 8260D																			
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene	108-90-7	**102**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																			
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,4-Dichlorobenzene	106-46-7	**77**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4-Nitrophenol	100-02-7	**128**	**125**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PCBs, Aroclor Specific by Method 8081B/8082A																			
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<1	<0.5 R	<0.5 R	
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	49	34	39	<0.5 J	
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<1	16	<0.5 J	
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5 J	
Aroclor 1248	12672-29-6	--	--	<0.5	4 J	<0.5	<0.5	<0.5	<0.5	<0.5	2.1 J	<0.5	3.5 J	<0.5	<0.5	<1	<0.5	<0.5 J	
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5 J	
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5 J	
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5 J	
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5	4 J	<0.5	<0.5	<0.5	<0.5	<0.5	2.1 J	<0.5	3.5 J	<0.5	49	34	55	<0.5 J	
PCBs, Homolog Specific by Methods 680 and EPA 680																			
Decachlorobiphenyl	2051-24-3	--	--	<0.48	<0.49	<0.48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	
Dichlorobiphenyl	25512-42-9	--	--	<0.095	<0.097	<0.095	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	
Heptachlorobiphenyl	28655-71-2	--	--	<0.29	<0.29	<0.29	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	-	-	-	
Hexachlorobiphenyl	26601-64-9	--	--	<0.19	<0.19	<0.19	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	
Monochlorobiphenyl	27323-18-8	--	--	<0.095	<0.097	<0.095	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	
Nonachlorobiphenyl	53742-07-7	--	--	<0.48	<0.49	<0.48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	-	-	-	
Octachlorobiphenyls	31472-83-0	--	--	<0.29	<0.29	<0.29	-	-	-	-	-	-	-	-	-	-	-	-	
Pentachlorobiphenyl	25429-29-2	--	--	<0.19	0.29	<0.19	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	
Tetrachlorobiphenyl	26914-33-0	--	--	<0.19	0.81	<0.19	0.29	<0.2	0.22	<0.2	0.23	<0.2	0.31	<0.2	-	-	-	-	
Trichlorobiphenyl	25323-68-6	--	--	<0.095	0.87	<0.095	0.19	<0.1 J	0.15	0.1 J	<0.1 J	<0.1	0.15 J	<0.1	-	-	-	-	
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	<0.48	1.97	<0.48	0.48	<0.5	0.37	0.1 J	0.23	<0.5	0.46 J	<0.5	-	-	-	-	
Pesticides by Method 8141B																			
Parathion	56-38-2	**75**	**85**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sulfotepp	3689-24-5	**6**	**7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals by Methods 6010C, 6010D, and 7470A																			
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	7440-48-4	**694**	**73**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	7439-96-5	--	**880**	<10	28	<10	16	<10 J	17	22 J	<10	<10	<10	<10	-	-	-	-	
Mercury	7439-97-6	**2**	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviatio PCBs = Polychlorinated biph CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   Dup = Dupli SVOCs = Semi-volatile organ RCRA = Resource Conservation and Recovery Act
   N = Original VOCs = Volatile organic com SIM = Selected ion monitoring

GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action														
Matrix:		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				OWR-15D	OWR-15D	OWR-15D	OWR-15D	OWR-15D	OWR-15D	T-04	T-04	T-04	T-04	T-04	T-04	T-04	T-04	T-04
Sample Date:				5/15/2020	5/15/2020	4/19/2021	4/19/2021	4/11/2022	4/11/2022	4/9/2018	4/9/2018	4/13/2019	4/13/2019	5/16/2020	5/16/2020	4/17/2021	4/17/2021	4/10/2022
Sample Type:				N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Filtered:				No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Sample ID:				OWR-15D	OWR-15D F	OWR-15 D	OWR-15 DF	OWR-15D	OWR-15DF	T-04	T-04F	T-04	T-04F	T-04	T-04F	T-04	T-04 F	T-04
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	**77**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.88	<1	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	38	<0.5	20	6.4	51	<0.5	<0.93	<1	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	1.2
Aroclor 1232	11141-16-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.2	<1	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.93	<1	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	39 J	<0.5 J	<0.5	<0.5	46	17	59
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<0.5	<0.5	0.84	<0.5	16	6.8	12 J	<0.5 J	13	<0.5	12	5.3	16
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.59	<1	<0.5 J	<0.5 J	<0.5	<0.5	0.75	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.2	<1	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	38	<0.5	20	6.4	51.84	<0.5	16	6.8	51 J	<0.5 J	13	<0.5	58.75	22.3	76.2
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfotepp	3689-24-5	**6**	**7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	**694**	**73**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	**880**	-	-	-	-	-	-	190	100	140	100	160	92	180	190	160
Mercury	7439-97-6	**2**	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act
   SIM = Selected ion monitoring

GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action														
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				T-04	T-06	T-06	T-06	T-06	T-06	T-06	T-06	T-06	T-06	T-06	T-09	T-09	T-09	T-09
Sample Date:		RCRA Concentration Limits	CERCLA Remediation Goals	4/10/2022	4/6/2018	4/6/2018	4/15/2019	4/15/2019	5/14/2020	5/14/2020	4/19/2021	4/19/2021	4/6/2022	4/6/2022	4/9/2018	4/9/2018	4/13/2019	4/13/2019
Sample Type:				N	N	N	N	N	N	N	N	N	N	N	N	Dup	N	N
Filtered:				Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	No	No	Yes
Sample ID:				T-04F	T-06	T-06 F	T-06	T-06F	T-06	T-06 F	T-06	T-06 F	T-06	T-06F	T-09	Field Duplicate 3	T-09	T-09F
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	**77**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	-	-	-	-	-	-	-	-	-	-	-	<25	<25	<25	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5	6.7	3.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5	<0.5	<1	1.9	<0.5	3.1	<0.5	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	2.7	<0.5
Aroclor 1254	11097-69-1	--	--	<0.5	<0.5	<1	0.83	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.54	0.69	0.73	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5	6.7	3.8	2.73	<0.5	3.1	<0.5	1.9	<0.5	<0.5	<0.5	0.54	0.69	3.43	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<1	-
Sulfotepp	3689-24-5	**6**	**7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	**694**	**73**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	**880**	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	**2**	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
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4. Abbreviations:
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GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action														
Matrix:		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				T-09	T-09	T-09	T-09	T-09	T-09	T-09	T-09	T-09	T-09	T-10	T-10	T-10	T-10	T-10
Sample Date:				4/13/2019	5/16/2020	5/16/2020	5/16/2020	4/17/2021	4/17/2021	4/17/2021	4/7/2022	4/7/2022	4/7/2022	4/9/2018	4/13/2019	5/16/2020	4/14/2021	4/7/2022
Sample Type:				Dup	N	N	Dup	N	N	Dup	N	N	Dup	N	N	N	N	N
Filtered:				No	No	Yes	No	No	Yes	No	No	Yes	No	No	No	No	No	No
Sample ID:				Field Duplicate 3	T-09	T-09F	FIELD DUPLICATE 3	T-09	T-09 F	Field Duplicate 3	T-09	T-09F	Field Duplicate 3	T-10	T-10	T-10	T-10	T-10
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	**77**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	<25	<25	-	<25	<25	-	<25	<25	-	<25	<25	<25 J	<25	<25	<25
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5 J	<0.5 J	<0.5	<0.5	<0.5	<0.5 J	<0.5 J
Aroclor 1221	11104-28-2	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1248	12672-29-6	--	--	3 J	2.7 J	<0.5	<0.5 J	2.9	<0.5	2.3	3.7	<0.5	4	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1254	11097-69-1	--	--	0.7 J	<0.5 J	<0.5	0.59 J	<0.5	<0.5	<0.5	0.89	<0.5	0.98	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	3.7 J	2.7 J	<0.5	0.59 J	2.9	<0.5	2.3	4.59	<0.5	4.98	<0.5	<0.5	<0.5	<0.5 J	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	<1	<1	-	<1	<1 J	-	<1 J	<1	-	<1	<1	<1	<1	<1	<1
Sulfotepp	3689-24-5	**6**	**7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	**694**	**73**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	**880**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	**2**	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
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   PCBs = Polychlorinated biphenyls
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Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action														
Matrix:				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				T-18	T-18	T-18	T-18	T-18	T-18	T-18	T-18	T-18	T-18	T-20	T-20	T-20	T-20	T-20
Sample Date:		RCRA Concentration Limits	CERCLA Remediation Goals	4/10/2018	4/10/2018	4/15/2019	4/15/2019	5/14/2020	5/14/2020	4/19/2021	4/19/2021	4/6/2022	4/6/2022	4/8/2018	4/8/2018	4/13/2019	4/13/2019	5/15/2020
Sample Type:				N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Filtered:				No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Sample ID:				T-18	T-18F	T-18	T-18F	T-18	T-18 F	T-18	T-18 F	T-18	T-18F	T-20	T-20 F	T-20	T-20F	T-20
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	**77**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	<0.5 J	<1	<0.5 R	<0.5 R	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5 J	-	<0.5	-	<0.5
Aroclor 1221	11104-28-2	--	--	29 J	15	23 J	<0.5 J	31	<0.5	25 J	10	30 J	<0.5	<0.5 J	-	<0.5	-	<0.5
Aroclor 1232	11141-16-5	--	--	<0.5 J	<1	<0.5 R	<0.5 J	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5 J	-	<0.5	-	<0.5
Aroclor 1242	53469-21-9	--	--	<0.5 J	<1	<0.5 R	<0.5 J	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5 J	-	<0.5	-	<0.5
Aroclor 1248	12672-29-6	--	--	<0.5 J	<1	<0.5 R	<0.5 J	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5 J	-	<0.5	-	1.1
Aroclor 1254	11097-69-1	--	--	<0.5 J	<1	<0.5 R	<0.5 J	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5 J	-	<0.5	-	<0.5
Aroclor 1260	11096-82-5	--	--	<0.5 J	<1	<0.5 R	<0.5 J	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5 J	-	<0.5	-	<0.5
Aroclor 1268	11100-14-4	--	--	<0.5 J	<1	<0.5 R	<0.5 J	<0.5	<0.5	<0.5 J	<0.5	<0.5 J	<0.5	<0.5 J	-	<0.5	-	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	29 J	15	23 J	<0.5 J	31	<0.5	25 J	10	30 J	<0.5	<0.5 J	-	<0.5	-	1.1
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	<0.5	<0.5	<0.5	<0.5	<0.48	<0.49	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	25	14	26	<0.1	23	<0.097	18	1.7	2.2	3.7	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	<0.3	<0.3	<0.3	<0.3	<0.29	<0.29	<0.3	<0.3	<0.3	<0.3	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	<0.2	<0.2	<0.2	<0.2	<0.19	<0.19	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	94	47	98	0.11	67	<0.097	60	25	6.4	45	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	<0.5	<0.5	<0.5	<0.5	<0.48	<0.49	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	<0.3	<0.3	<0.3	<0.3	-	-	<0.3	<0.3	<0.3	<0.3	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	<0.29	<0.29	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	<0.2	<0.2	<0.2	<0.2	<0.19	<0.19	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	<0.2	<0.2	<0.2	<0.2	<0.19	<0.19	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	1.1	0.65	1.4	<0.1	1.4	<0.097	0.73	0.42	0.16	0.82	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	120.1	61.65	125.4	0.11	91.4	<0.49	78.73	27.12	8.76	49.52	-	-	-	-	-
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfotepp	3689-24-5	**6**	**7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	**694**	**73**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	**880**	-	-	-	-	-	-	-	-	-	-	3500	3300	3600	3800	2900
Mercury	7439-97-6	**2**	**2**	-	-	-	-	-	-	-	-	-	-	<0.2 J	-	<0.2	-	<0.2

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act
   SIM = Selected ion monitoring

GSI ENVIRONMENTAL

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action														
Matrix:		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				T-20	T-20	T-20	T-20	T-20	WEL-01	WEL-01	WEL-01	WEL-01	WEL-01	WEL-01	WEL-01	WEL-01	WEL-01	WEL-01
Sample Date:				5/15/2020	4/17/2021	4/17/2021	4/7/2022	4/7/2022	4/6/2018	4/6/2018	4/13/2019	4/13/2019	5/15/2020	5/15/2020	4/20/2021	4/20/2021	4/10/2022	4/10/2022
Sample Type:				N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Filtered:				Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
Sample ID:				T-20F	T-20	T-20 F	T-20	T-20F	WEL-01	WEL-01 F	WEL-01	WEL-01F	WEL-01	WEL-01 F	WEL-01	WEL-01 F	WEL-01	WEL-01F
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D																		
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM																		
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	**77**	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A																		
Aroclor 1016	12674-11-2	--	--	-	<0.5	<0.5	<0.5 J	<0.5 J	<0.5	<1	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1221	11104-28-2	--	--	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1232	11141-16-5	--	--	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1242	53469-21-9	--	--	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1248	12672-29-6	--	--	-	<0.5	<0.5	2.1	<0.5	<0.5	<1	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1254	11097-69-1	--	--	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5 J	0.62	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1260	11096-82-5	--	--	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Aroclor 1268	11100-14-4	--	--	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	-	<0.5	<0.5	2.1	<0.5	<0.5	<1	<0.5	<0.5 J	0.62	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs, Homolog Specific by Methods 680 and EPA 680																		
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B																		
Parathion	56-38-2	**75**	**85**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfotepp	3689-24-5	**6**	**7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C, 6010D, and 7470A																		
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	**694**	**73**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	**880**	2700	2600	2500	2200	2100	270	44	21	16	21	14	12	10	32	16
Mercury	7439-97-6	**2**	**2**	-	<0.2	-	<0.2	-	-	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act
   SIM = Selected ion monitoring

Appendix E
HISTORICAL ANALYTICAL TEST RESULTS IN GROUNDWATER
2018-2022

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

				CERCLA Remedial Action									
Matrix:		RCRA Concentration Limits	CERCLA Remediation Goals	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Location ID:				WEL-04	WEL-04	WEL-04	WEL-04	WEL-04	WEL-04	WEL-04	WEL-04	WEL-04	WEL-04
Sample Date:				4/9/2018	4/9/2018	4/15/2019	4/15/2019	5/14/2020	5/14/2020	4/20/2021	4/20/2021	4/6/2022	4/6/2022
Sample Type:				N	N	N	N	N	N	N	N	N	N
Filtered:				No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
Sample ID:				WEL-04	WEL-04 F	WEL-04	WEL-04F	WEL-04	WEL-04 F	WEL-04	WEL-04 F	WEL-04	WEL-04F
Analyte	CASNo	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
VOCs by Methods 8260B and 8260D													
1,2,4-Trichlorobenzene	120-82-1	--	**70**	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	108-90-7	**102**	--	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	79-01-6	--	**5**	-	-	-	-	-	-	-	-	-	-
SVOCs by Methods 8270D, 8270D LL, and 8270D SIM													
1,2-Dichlorobenzene	95-50-1	**612**	--	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	**77**	--	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	88-06-2	**47**	**13**	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	100-02-7	**128**	**125**	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	193-39-5	--	**0.2**	-	-	-	-	-	-	-	-	-	-
O,O,O-Triethylphosphorothioate	126-68-1	**102**	**310**	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol, 8270 SIM	87-86-5	**1**	**1**	-	-	-	-	-	-	-	-	-	-
PCBs, Aroclor Specific by Method 8081B/8082A													
Aroclor 1016	12674-11-2	--	--	<0.5 J	<1 J	<0.5 R	<0.5 R	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1221	11104-28-2	--	--	<0.5 J	<1 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1232	11141-16-5	--	--	<0.5 J	<1 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1242	53469-21-9	--	--	<0.5 J	<1 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1248	12672-29-6	--	--	<0.5 J	<1 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1254	11097-69-1	--	--	<0.5 J	<1 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1260	11096-82-5	--	--	<0.5 J	<1 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
Aroclor 1268	11100-14-4	--	--	<0.5 J	<1 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
Total PCBs, Aroclor Specific	1336-36-3	**0.5**	**0.5**	<0.5 J	<1 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 J
PCBs, Homolog Specific by Methods 680 and EPA 680													
Decachlorobiphenyl	2051-24-3	--	--	-	-	-	-	-	-	-	-	-	-
Dichlorobiphenyl	25512-42-9	--	--	-	-	-	-	-	-	-	-	-	-
Heptachlorobiphenyl	28655-71-2	--	--	-	-	-	-	-	-	-	-	-	-
Hexachlorobiphenyl	26601-64-9	--	--	-	-	-	-	-	-	-	-	-	-
Monochlorobiphenyl	27323-18-8	--	--	-	-	-	-	-	-	-	-	-	-
Nonachlorobiphenyl	53742-07-7	--	--	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyl	55722-26-4	--	--	-	-	-	-	-	-	-	-	-	-
Octachlorobiphenyls	31472-83-0	--	--	-	-	-	-	-	-	-	-	-	-
Pentachlorobiphenyl	25429-29-2	--	--	-	-	-	-	-	-	-	-	-	-
Tetrachlorobiphenyl	26914-33-0	--	--	-	-	-	-	-	-	-	-	-	-
Trichlorobiphenyl	25323-68-6	--	--	-	-	-	-	-	-	-	-	-	-
Total PCBs, Homolog Specific	1336-36-3	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-	-
Pesticides by Method 8141B													
Parathion	56-38-2	**75**	**85**	-	-	-	-	-	-	-	-	-	-
Sulfotepp	3689-24-5	**6**	**7**	-	-	-	-	-	-	-	-	-	-
Metals by Methods 6010C, 6010D, and 7470A													
Beryllium	7440-41-7	--	**4**	-	-	-	-	-	-	-	-	-	-
Cobalt	7440-48-4	**694**	**73**	-	-	-	-	-	-	-	-	-	-
Manganese	7439-96-5	--	**880**	62	38	86	60	88	57	60	36	73	52
Mercury	7439-97-6	**2**	**2**	-	-	-	-	-	-	-	-	-	-

Notes:
1. Concentrations exceeding the applicable regulatory limits or goals are highlighted in yellow.
2. 1,2,4-Trichlorobenzene in well OW-16A, Indeno (1,2,3-cd) pyrene in well OW-08A, and Manganese in wells MW-14, OW-08A, OW-16A, and OW-21A are required for CERCLA. Concentrations compared to CERCLA Remediation Goals
3. Data Flags:
   J = Estimated concentration;
   R = Rejected;
   -- = not applicable;
   - = not analyzed.
4. Abbreviations:
   Dup = Duplicate sample
   N = Original sample
   PCBs = Polychlorinated biphenyls
   SVOCs = Semi-volatile organic compound
   VOCs = Volatile organic compound
   CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
   RCRA = Resource Conservation and Recovery Act
   SIM = Selected ion monitoring

2022 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia Inc. Anniston, Alabama

RCRA Post-Closure Permit ALD 004 019 048

Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDIX F

Appendix F. Data Validation

APPENDIX F
DATA VALIDATION

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

1.0 EXECUTIVE SUMMARY

1.1 Results of Data Validation

This data validation report provides the results of an evaluation of data from nine data packages issued by TestAmerica Laboratories, Inc. (TestAmerica), located in Savannah, Georgia. The data packages report the analyses of groundwater samples collected in April and October 2022 at the Solutia Inc. facility located in Anniston, Alabama.

As further detailed in this data validation report, review of the analytical data received from the laboratory have verified that the data are suitable for the intended purpose of i) verifying groundwater conditions to evaluate whether a release from WMA I has or has not occurred; ii) monitoring concentrations of constituents of concern (COCs) in groundwater; and iii) evaluating the effectiveness of corrective action efforts being implemented at WMA II, SWMU 1, the well OW-21A Corrective Action Area, and the OW-10 Corrective Action Area.

1.2 Summary of Groundwater Sampling Program

The 2022 groundwater sampling program at the Solutia Anniston facility included collection and analysis of a total of 63 samples in April and 11 samples in October, including field duplicates, equipment blanks, and trip blanks (see Table F.1 for a listing of sample identifications cross-referenced to laboratory identifications). Samples were analyzed for one or more of the following COCs:

- Volatile Organic Compounds (VOCs) by SW-846 Method 8260B
- Semi-volatile Organic Compounds (SVOCs) by SW-846 Method 8270D
- Pentachlorophenol by SW-846 8270D SIM
- Polychlorinated Biphenyls (PCB Aroclors) by SW-846 Method 8081B/8082A
- Polychlorinated Biphenyls (PCB homologs) by EPA Method 680
- Organophosphorous Pesticides by SW-846 Method 8141B
- Metals (i.e., cobalt, beryllium, and/or manganese) by SW-846 Method 6010C
- Mercury by SW-846 Method 7470A

1.3 Analytical Results

Detected analytes (i.e., reported greater than the laboratory reporting limit) for the April and October 2022 sampling events are summarized in Table 5 in the main body of this Annual Groundwater Monitoring Report. Historical results for groundwater sampling for the last five years (i.e., 2018 to 2022) are provided in Appendix E. Data acquired during 2022 included in Table 5 and Appendix E have been qualified as described in this data validation report. Complete laboratory reports and their respective data validation checklists are provided in Appendix H.

2.0 DATA VALIDATION PROCEDURES

2.1 Basis for Data Validation

The data validation and review detailed in this appendix has been conducted in accordance with applicable project and site-specific documents for the Solutia Anniston facility, as follows:

1. "Attachment 6.2: Quality Assurance Project Plan," in *RCRA Post-Closure Permit Renewal Application ALD 004 019 048*, Revision 1 (Solutia, Inc., 2018).
2. "OU-3 Performance Standards Verification Sampling and Analysis/Quality Assurance Project Plan" (PSVP; Solutia, 2015a).

For simplicity, these documents will be referred to as the Sampling and Analysis Plan (SAP) in this appendix.

2.2 Data Quality Objectives

Analytical data have been evaluated with respect to data quality objectives (DQOs) specified in the SAP for representativeness, comparability, accuracy, precision, and completeness. Quality assurance/quality control (QA/QC) requirements for blanks, spikes, and duplicates (including matrix spikes/matrix spike duplicates; MS/MSDs), and calibrations are also provided in the SAP.

- ***Representativeness*** has been evaluated by verifying that groundwater samples have been collected from the locations specified in the SAP.

- ***Comparability*** has been evaluated by ensuring that standard sample collection, handling, and analytical procedures have been employed. The scope of this data quality analysis has involved review of the following:

  1. Completeness of laboratory data packages
  2. Chain-of-custody control and sample handling
  3. Holding times for sample preparation, extraction, and analysis
  4. Analytical methods used for sample analysis

- ***Accuracy*** has been evaluated by comparing the project-specific values for the recovery of spiked compounds, expressed as percent recovery, in applicable laboratory control samples, matrix spikes, surrogate spikes, and other spiked samples.

- ***Precision*** has been evaluated by comparing the project-specified relative percent difference (RPD) values to those calculated for duplicate samples, including laboratory control samples, matrix spike duplicates and field duplicates.

  Matrix spike and duplicate results are meaningful when the matrix is obtained from the site being sampled. Therefore, only those QC issues noted for MS/MSD

pairs prepared in the laboratory from samples collected from the Solutia site are discussed in this report.

- ***Completeness*** has been calculated as the percentage of total number of analytes that have met applicable DQO criteria with respect to the total number of analytes specified to be collected.

3.0 RESULTS OF DATA VALIDATION

3.1 Representativeness

- ***Evaluation:*** Samples specified by the SAP were collected at designated monitoring well locations in April and October 2022. Point of Compliance (POC) well MW-13A was replaced with well MW-13A-R in October 2022. Sampling locations were specified in the SAP as being representative of the groundwater conditions at each location; therefore, the criterion of representativeness has been satisfied.

- ***Findings:*** Well MW-13A-R is constructed at the same location, design, and depth as the previous MW-13A. No sample results have been qualified on the basis of unrepresentative samples.

3.2 Comparability

3.2.1 Laboratory Data Packages

- ***Evaluation:*** The nine data packages for the project are complete, providing results for the samples provided and analyzing the samples for the COCs specified on the chain-of-custody forms.

- ***Findings:*** No data have been qualified on the basis of insufficiencies in the laboratory data packages.

3.2.2 Chain-of-Custody Control and Sample Handling

- ***Evaluation:***

  i. Chain-of-Custody: Samples were evaluated for agreement with the chain-of-custody by the laboratory upon receipt. The paperwork was filled out properly.
  ii. Sample Condition: Samples were received by the laboratory in good condition, having been collected in appropriate containers and preserved in the field, if applicable.

  iii. Sample Temperatures: Sample receipt temperatures were within the acceptable criterion of 4°C +/- 2°C.

  iv. Field Filtration: Samples were filtered in the field as specified in the SAP.

v. Field Performance: Appropriate field performance was met with the exception of field calibrations of ORP and turbidity during the April event as detailed on data validation checklists for each lab report. Incorrect ORP and/or turbidity measurements are not expected to impact laboratory analytical data, so no data have been qualified on this basis.

- ***Findings:*** No samples were qualified on the basis of the chain-of-custody, sample condition, sample temperatures, field filtration, or field performance.

3.2.3 Holding Times for Sample Preparation, Extraction, and Analysis

- ***Evaluation:*** Samples for all chemicals of concern (COCs) were prepared and analyzed within the holding times specified in SW-846, except for the sample analysis of chlorobenzene in sample OW-21A collected in April 2022 and sample pretreatment for 8141B and 8270D in samples MW-16, MW-15, MW-12A, and MW-01B collected in October 2022.

- ***Findings:*** The chlorobenzene result in OW-21A collected in April 2022 was qualified as estimated (J). Detected results for 4-nitrophenol and o,o',o''-Triethylphosphorothioate in MW-16 collected in October 2022 were qualified as estimated (J). Non-detect results for 4-nitrophenol and o,o',o''-Triethylphosphorothioate in MW-15, MW-12A, and MW-01B collected in October 2022 were qualified as estimated (UJ). Non-detect results for parathion and tetraethyldithiopyrophosphate in MW-15, MW-16, MW-01B, and MW-12A (parathion only) collected in October 2022 were qualified as estimated (UJ).

3.2.4 Analytical Methods Used for Sample Analysis

- ***Evaluation:*** Methods specified in the Sampling and Analysis Plan as listed on the chain-of-custody forms were employed to analyze the samples collected in April and October 2022.

- ***Findings:*** No data have been qualified on the basis of incorrect analytical methods or reporting limits.

3.3 Accuracy

3.3.1 Blanks

- ***Evaluation:*** No analytes were detected in field blank samples or laboratory method blank samples.

- ***Findings:*** No data have been qualified on the basis of detections of COCs in blank samples.

3.3.2 Sample Dilutions

- ***Evaluation:*** Certain samples required dilution to bring the sample concentration within the instrument calibration range or due to evidence of matrix interference.

Consequently, as specified by relevant methods, reporting limits were elevated proportional to the dilution. PCB-1232 in sample OW-16A collected in April 2022 had elevated reporting limits above RCRA concentration limits due to sample dilutions.

- ***Findings:*** PCB-1232 was not detected in sample OW-16A collected in April 2022 and was qualified as estimated (UJ). No other data have been qualified on the basis of dilutions.

3.3.3 Surrogate Recoveries

3.3.3.1 Volatile Organic Compounds

- ***Evaluation:*** Surrogate recoveries for VOC analyses for all samples met project specific DQOs.

- ***Findings:*** No data were qualified on the basis of surrogate recoveries for VOC analyses.

3.3.3.2 Semi-Volatile Organic Compounds

- ***Evaluation:*** Surrogate recoveries for 2-Fluorophenol (2-FP) and Phenol-d5 were less than project DQOs for sample MW-11A collected in April 2022.

- ***Findings:*** 4-Nitrophenol and o,o',o''-Triethylphosphorothioate were reported as less than the reporting limit in sample MW-11A collected in April 2022 and were qualified as estimated (UJ) in accordance with the National Functional Guidelines for Organic Superfund Methods Data Review (NFG) (EPA, 2020).

3.3.3.3 PCBs

- ***Evaluation:*** Surrogate recoveries of decachlorobiphenyl (DCB) and/ or tetrachloro-m-xylene (TCX) were less than project DQOs, but greater than or equal to 10%, for the analysis of polychlorinated biphenyls for samples OW-16A, MW-20A, Field Duplicate 1, OW-15F, WEL-04F, OWR-14D, T-18F, OW-10, Field Duplicate 4, OW-22F, and PURGEWATER collected in April 2022, and for MW-20A and Purge water collected in October 2022.

- ***Findings:*** For PCB analytes in samples OW-16A, MW-20A, Field Duplicate 1, OW-15F, WEL-04F, OWR-14D, T-18F, OW-10, Field Duplicate 4, OW-22F, and PURGEWATER collected in April 2022, and MW-20A and Purge water collected in October 2022, detected results were qualified as estimated (J) and results reported as less than the reporting limit were qualified as estimated (UJ) in accordance with the NFG (EPA, 2020).

3.3.3.4 Organochlorine Pesticides

- ***Evaluation:*** Surrogate recoveries of Triphenylphosphate (TPP) were less than the project DQOs for analysis of organochlorine pesticides for samples MW-11A and DUPLICATE collected in October 2022.

- ***Findings:*** Organochlorine pesticide analytes in samples MW-11A and DUPLICATE collected in October 2022 were qualified as estimated (UJ) since all results reported were less than the reporting limit in accordance with the NFG (EPA, 2020).

3.3.4 Laboratory Standards

3.3.4.1 Organochlorine Pesticides

- ***Evaluation:*** Internal standard (ISTD) recoveries exceeded control limits in sample MW-13-A-R, MW-12A, MW-15, MW-20A, MW-01B, DUPLICATE, and MW-11A collected in October 2022 for the 8141B in one column.

- ***Findings:*** Control limits were met in the second column, so no data were qualified on the basis of Organochlorine Pesticides laboratory standards.

3.3.5 Laboratory Control Samples

3.3.5.1 PCBs

- ***Evaluation:*** Recoveries of PCB-1016 in the laboratory control sample duplicate (LCSD) and the relative percent differences (RPD) between the laboratory control sample (LCS) and the LCSD for samples T-09, T-09F, Field Duplicate 3, OWR-11, OWR-11F, T-10, T-20, T-20F, OWR-13, OWR-13F, MW-01B, MW-16, MW-16F, MW-15, MW-15F, and OW-06A collected in April 2022 were higher than project DQOs.

- ***Findings:*** PCB-1016 was not detected in the associated samples T-09, T-09F, Field Duplicate 3, OWR-11, OWR-11F, T-10, T-20, T-20F, OWR-13, OWR-13F, MW-01B, MW-16, MW-16F, MW-15, MW-15F, and OW-06A collected in April 2022, so each of these non-detect results were qualified as estimated (UJ).

3.3.6 Matrix Spikes

3.3.6.1 PCBs

- ***Evaluation:*** Recovery of PCB-1016 in the matrix spike duplicate (MSD) sample collected at MW-20A in April 2022 (0%) was less than project DQOs (44%). Recovery of PCB-1260 in the matrix spike (MS) and MSD samples collected at OW-10 in April 2022 (22% and 21%, respectively) was less than project DQOs (35%).

- ***Findings:*** All non-detect results for PCB-1016 in the parent sample (MW-20A) and its field duplicate (Field Duplicate 1) are qualified as rejected (R). Non-detect result for PCB-1260 in the parent sample (OW-10) is qualified as estimated (UJ).

3.3.6.2 Mercury

- ***Evaluation:*** Recoveries of Mercury in the MS/MSD sample collected at MW-20A in April 2021 (57% and 61%, respectively) were less than project DQOs (80%).

- ***Findings:*** Mercury was qualified as estimated (UJ) in samples MW-20 and Field Duplicate 1.

3.4 Precision

3.4.1 Field Duplicates

- ***Evaluation:*** Seven field duplicate pairs were analyzed and results having at least one detected analyte among the pair were included in the field precision comparison. Analyte pairs having an RPD of less than 35%, as specified in the SAP, were considered to be within control (see Table F.3). Duplicate samples met the project DQO for precision with four exceptions, all from the April 2022 event.

i. The RPD for Aroclor 1248 in OWR-14D and Field Duplicate 2 was 50.0%.

ii. The RPD for Mercury in OW-10F and Field Duplicate 4F was 142.1%.

iii. The RPD for Mercury in OW-10 and Field Duplicate 4 was 135.7%.

iv. The RPD for Trichlorobiphenyl in OWR-14D and Field Duplicate 2 was not calculated since the analyte was detected only in Field Duplicate 2 and not in the original OWR-14D sample. However, the detection (0.15 µg/L) was very close to the reporting limit (0.1 µg/L).

- ***Findings:***

i. For Aroclor 1248 results in OWR-14D and Field Duplicate 2 collected in April 2022, detected results were qualified as estimated (J).

ii. For Mercury results in OW-10F and Field Duplicate 4F collected in April 2022, detected results were qualified as estimated (J).

iii. For Mercury results in OW-10 and Field Duplicate 4 collected in April 2022, detected results were qualified as estimated (J).

iv. For Trichlorobiphenyl in OWR-14D and Field Duplicate 2 collected in April 2022, detected results were qualified as estimated (J) and results reported as less than the reporting limit were qualified as estimated (UJ).

3.4.2 Matrix Spike Duplicates

- ***Evaluation:*** The RPD for PCB-1016 in the MS/MSD collected in April 2022 was unable to be calculated due to 0% MSD recovery.

- ***Findings:*** All non-detect results for PCB-1016 in the parent sample (MW-20A) and its field duplicate (Field Duplicate 1) are qualified as rejected (R) as discussed above in section 3.3.6.1.

4.0 SUMMARY AND ACHIEVEMENT OF DATA QUALITY OBJECTIVES

The analytical data have been determined to be usable for the intended purpose of i) verifying groundwater conditions to evaluate whether a release to groundwater from WMA I has or has not occurred; ii) monitoring concentrations of constituents of concern (COCs) in groundwater; and iii) evaluating the effectiveness of corrective action efforts being implemented at WMA II, SWMU 1, the well OW-21A Corrective Action Area, and the OW-10 Corrective Action Area. Completeness was calculated as 99.8%, based on a total of 913 individual analytes of which 2 values were rejected. Therefore, the completeness criterion of 85% specified in the SAP was exceeded by a wide margin.

5.0 REFERENCES

Solutia, 2015a. "OU-3 Performance Standards Verification Sampling and Analysis/Quality Assurance Project Plan," Solutia Inc., Anniston, Alabama, January 2015.

Solutia, 2018. "RCRA Post-Closure Permit Renewal Application, Rev. 1, RCRA Post-Closure Permit ALD 004 019 048, Solutia Inc., Anniston, Alabama, 1 November 2018.

USEPA, 2015. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA publication SW-846, Third Edition, Final Updates I (1993), II (1995), IIA (1994), IIB (1995), III (1997), IIIA (1999), IIIB (2005), IV (2008), and V (2015).

USEPA, 2020. "National Functional Guidelines for Organic Superfund Methods Data Review," OLEM 9240.0-51, EPA-540-R-20-005, United States Environmental Protection Agency, Washington, D.C., November 2020.

GSI ENVIRONMENTAL

TABLE F.1
CROSS-REFERENCE SAMPLE IDENTIFICATION

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Sample Date	Lab Sample ID	Field Sample ID	Project Sample ID	Matrix
April 2022				
4/5/2022	680-213549-1	MW-11A	MW-11A	Water
4/5/2022	680-213549-2	OW-08A	OW-08A	Water
4/5/2022	680-213549-3	OW-08AF	OW-08A	Water
4/5/2022	680-213549-4	Trip Blank 20220405	Trip Blank	Water
4/5/2022	680-213610-1	MW-20A	MW-20A	Water
4/5/2022	680-213610-2	MW-13A	MW-13A	Water
4/5/2022	680-213610-3	OW-15	OW-15	Water
4/5/2022	680-213610-4	OW-15F	OW-15	Water
4/5/2022	680-213610-5	OW-16A	OW-16A	Water
4/5/2022	680-213610-6	OW-16AF	OW-16A	Water
4/5/2022	680-213610-7	MW-20AF	MW-20A	Water
4/5/2022	680-213610-8	Field Duplicate 1	MW-20A	Water
4/6/2022	680-213610-9	Tripblank 20220406	Trip Blank	Water
4/6/2022	680-213746-1	OWR-14D	OWR-14D	Water
4/6/2022	680-213746-2	OWR-14DF	OWR-14D	Water
4/6/2022	680-213746-3	Field Duplicate 2	OWR-14D	Water
4/6/2022	680-213746-4	Field Duplicate 2F	OWR-14D	Water
4/6/2022	680-213746-5	T-18	T-18	Water
4/6/2022	680-213746-6	T-18F	T-18	Water
4/6/2022	680-213746-7	OWR-3S	OWR-03S	Water
4/6/2022	680-213746-8	WEL-04	WEL-04	Water
4/6/2022	680-213746-9	T-06	T-06	Water
4/6/2022	680-213746-10	WEL-04F	WEL-04	Water
4/6/2022	680-213746-11	T-06F	T-06	Water
4/7/2022	680-213810-1	T-09	T-09	Water
4/7/2022	680-213810-2	T-09F	T-09	Water
4/7/2022	680-213810-3	Field Duplicate 3	T-09	Water
4/7/2022	680-213810-4	OWR-13	OWR-13	Water
4/7/2022	680-213810-5	OWR-13F	OWR-13	Water
4/7/2022	680-213810-6	T-10	T-10	Water
4/7/2022	680-213810-7	T-20	T-20	Water
4/7/2022	680-213810-8	T-20F	T-20	Water
4/7/2022	680-213810-9	OWR-11	OWR-11	Water
4/7/2022	680-213810-10	OWR-11F	OWR-11	Water
4/8/2022	680-213811-1	MW-01B	MW-01B	Water
4/8/2022	680-213811-2	MW-16	MW-16	Water
4/8/2022	680-213811-3	MW-16F	MW-16	Water
4/8/2022	680-213811-4	MW-15	MW-15	Water
4/8/2022	680-213811-5	MW-15F	MW-15	Water

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TABLE F.1
CROSS-REFERENCE SAMPLE IDENTIFICATION

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Sample Date	Lab Sample ID	Field Sample ID	Project Sample ID	Matrix
April 2022 (Cont.)				
4/8/2022	680-213811-6	OW-06A	OW-06A	Water
4/8/2022	680-213811-7	TRIP BLANK 20220408	Trip Blank	Water
4/10/2022	680-213886-1	T-04	T-04	Water
4/10/2022	680-213886-2	T-04F	T-04	Water
4/10/2022	680-213886-3	WEL-01	WEL-01	Water
4/10/2022	680-213886-4	WEL-01F	WEL-01	Water
4/10/2022	680-213916-1	MW-09A	MW-09A	Water
4/10/2022	680-213916-2	MW-08	MW-08	Water
4/10/2022	680-213916-3	OW-22	OW-22	Water
4/10/2022	680-213916-4	OW-22F	OW-22	Water
4/10/2022	680-213916-5	MW-12A	MW-12A	Water
4/10/2022	680-213916-6	MW-14	MW-14	Water
4/10/2022	680-213916-7	OW-21A	OW-21A	Water
4/10/2022	680-213916-8	OW-21AF	OW-21A	Water
4/11/2022	680-213886-5	OW-10	OW-10	Water
4/11/2022	680-213886-6	Field Duplicate 4	OW-10	Water
4/11/2022	680-213886-7	OW-10F	OW-10	Water
4/11/2022	680-213886-8	Field Duplicate 4F	OW-10	Water
4/11/2022	680-213886-9	OWR-15D	OWR-15D	Water
4/11/2022	680-213886-10	OWR-15DF	OWR-15D	Water
4/11/2022	680-213886-11	Trip Blank 20220411B	Trip Blank	Water
4/11/2022	680-213886-12	Equipment Blank	Equipment Blank	Water
4/11/2022	680-213916-9	Tripblank 20220411A	Trip Blank	Water
4/11/2022	680-213916-10	PURGEWATER	EFFLUENT	Water
October 2022				
10/22/2022	680-224226-9	Purge water	EFFLUENT	Water
10/25/2022	680-224226-1	MW-12A	MW-12A	Water
10/25/2022	680-224226-2	MW-16	MW-16	Water
10/25/2022	680-224226-3	MW-15	MW-15	Water
10/25/2022	680-224226-5	MW-01B	MW-01B	Water
10/25/2022	680-224330-1	MW-16	MW-16	Water
10/26/2022	680-224226-4	MW-20A	MW-20A	Water
10/26/2022	680-224226-6	DUPLICATE	MW-20A	Water
10/26/2022	680-224226-7	MW-11A	MW-11A	Water
10/26/2022	680-224286-1	MW-13A-R	MW-13A-R	Water
10/26/2022	680-224286-2	MW-13A-RF	MW-13A-R	Water
10/26/2022	680-224330-2	MW-11A	MW-11A	Water

Notes:
1. Samples analyzed by Eurofins Denver, Eurofins Savannah, and Eurofins Lancaster Laboratories Environment Testing.

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TABLE F.2
QUALIFIED ANALYTICAL DATA

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Sample ID	Sample Date	Analyte	Lab Result	Lab Qualifier	Units	Data Validation Qualifier	Reason for Qualification	Batch Number	Report Number
April 2022									
MW-11A	4/5/2022	4-Nitrophenol	25	<U	ug/L	UJ	Surrogates (2-FP and Phenol-d5) recovered below lower control limits	680-715438	680-213549-1
MW-11A	4/5/2022	o,o',o"-Triethylphosphorothioate	10	<U	ug/L	UJ	Surrogates (2-FP and Phenol-d5) recovered below lower control limits	680-715438	680-213549-1
MW-20A	4/5/2022	Mercury	0.0002	<U F1	mg/L	UJ	MS/MSD recoveries below lower control limits	680-714957	680-213610-1
MW-20A	4/5/2022	PCB-1016	0.5	<U F1	ug/L	R	% Recovery for PCB-1016 in the MSD sample was non-detect	680-715675	680-213610-1
MW-20A	4/5/2022	PCB-1221	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-1
MW-20A	4/5/2022	PCB-1232	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-1
MW-20A	4/5/2022	PCB-1242	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-1
MW-20A	4/5/2022	PCB-1248	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-1
MW-20A	4/5/2022	PCB-1254	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-1
MW-20A	4/5/2022	PCB-1260	0.5	<U F1	ug/L	UJ	Low DCB recovery	680-715675	680-213610-1
MW-20A	4/5/2022	PCB-1268	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-1
OW-15F	4/5/2022	PCB-1016, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-4
OW-15F	4/5/2022	PCB-1221, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-4
OW-15F	4/5/2022	PCB-1232, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-4
OW-15F	4/5/2022	PCB-1242, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-4
OW-15F	4/5/2022	PCB-1248, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-4
OW-15F	4/5/2022	PCB-1254, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-4
OW-15F	4/5/2022	PCB-1260, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-4
OW-15F	4/5/2022	PCB-1268, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-4
OW-16A	4/5/2022	PCB-1221	56		ug/L	J	High TCX recovery	680-715820	680-213610-5
OW-16A	4/5/2022	PCB-1232	1.8	<U	ug/L	UJ	RL elevated above RCRA concentration limit due to dilution required for other PCB Aroclors	680-715820	680-213610-5
OW-16A	4/5/2022	PCB-1254	13		ug/L	J	High TCX recovery	680-715820	680-213610-5
Field Duplicate 1	4/5/2022	Mercury	0.0002	<U	mg/L	UJ	MS/MSD recoveries below lower control limits	680-714957	680-213610-8
Field Duplicate 1	4/5/2022	PCB-1016	0.5	<U	ug/L	R	% Recovery for PCB-1016 in the MSD sample was non-detect	680-715675	680-213610-8
Field Duplicate 1	4/5/2022	PCB-1221	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-8
Field Duplicate 1	4/5/2022	PCB-1232	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-8
Field Duplicate 1	4/5/2022	PCB-1242	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-8
Field Duplicate 1	4/5/2022	PCB-1248	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-8
Field Duplicate 1	4/5/2022	PCB-1254	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-8
Field Duplicate 1	4/5/2022	PCB-1260	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-8
Field Duplicate 1	4/5/2022	PCB-1268	0.5	<U	ug/L	UJ	Low DCB recovery	680-715675	680-213610-8
OWR-14D	4/6/2022	PCB-1016	0.5	<U	ug/L	UJ	Low TCX recovery	680-716342	680-213746-1
OWR-14D	4/6/2022	PCB-1221	0.5	<U	ug/L	UJ	Low TCX recovery	680-716342	680-213746-1
OWR-14D	4/6/2022	PCB-1232	0.5	<U	ug/L	UJ	Low TCX recovery	680-716342	680-213746-1
OWR-14D	4/6/2022	PCB-1242	0.5	<U	ug/L	UJ	Low TCX recovery	680-716342	680-213746-1
OWR-14D	4/6/2022	PCB-1248	2.1		ug/L	J	Low TCX recovery	680-716342	680-213746-1
OWR-14D	4/6/2022	PCB-1254	0.5	<U	ug/L	UJ	Low TCX recovery	680-716342	680-213746-1
OWR-14D	4/6/2022	PCB-1260	0.5	<U	ug/L	UJ	Low TCX recovery	680-716342	680-213746-1
OWR-14D	4/6/2022	PCB-1268	0.5	<U	ug/L	UJ	Low TCX recovery	680-716342	680-213746-1
OWR-14D	4/6/2022	Total Trichlorobiphenyls	0.1	<U	ug/L	UJ	RPD between original and duplicate not calculated due to a non-detect result	410-245972	680-213746-1
OWR-14D	4/6/2022	PCB-1248	2.1		ug/L	J	Original and duplicate sample RPD exceeds control limits	680-716342	680-213746-1
Field Duplicate 2	4/6/2022	PCB-1248	3.5		ug/L	J	Original and duplicate sample RPD exceeds control limits	680-716342	680-213746-3
WEL-04F	4/6/2022	PCB-1016, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-718424	680-213746-10
WEL-04F	4/6/2022	PCB-1221, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-718424	680-213746-10
WEL-04F	4/6/2022	PCB-1232, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-718424	680-213746-10
WEL-04F	4/6/2022	PCB-1242, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-718424	680-213746-10
WEL-04F	4/6/2022	PCB-1248, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-718424	680-213746-10

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TABLE F.2
QUALIFIED ANALYTICAL DATA

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Sample ID	Sample Date	Analyte	Lab Result	Lab Qualifier	Units	Data Validation Qualifier	Reason for Qualification	Batch Number	Report Number
April 2022 (Cont.)									
WEL-04F	4/6/2022	PCB-1254, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-718424	680-213746-10
WEL-04F	4/6/2022	PCB-1260, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-718424	680-213746-10
WEL-04F	4/6/2022	PCB-1268, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-718424	680-213746-10
Field Duplicate 2	4/6/2022	Total Trichlorobiphenyls	0.15		ug/L	J	RPD between original and duplicate not calculated due to a non-detect result	410-245972	680-213746-3
T-18F	4/6/2022	PCB-1016	0.5	<U	ug/L	UJ	Low TCX recovery	680-716342	680-213746-5
T-18F	4/6/2022	PCB-1221	0.5	<U	ug/L	UJ	Low TCX recovery	680-717156	680-213746-5
T-18F	4/6/2022	PCB-1232	0.5	<U	ug/L	UJ	Low TCX recovery	680-716342	680-213746-5
T-18F	4/6/2022	PCB-1242	0.5	<U	ug/L	UJ	Low TCX recovery	680-716342	680-213746-5
T-18F	4/6/2022	PCB-1248	0.5	<U	ug/L	UJ	Low TCX recovery	680-716342	680-213746-5
T-18F	4/6/2022	PCB-1254	0.5	<U	ug/L	UJ	Low TCX recovery	680-716342	680-213746-5
T-18F	4/6/2022	PCB-1260	0.5	<U	ug/L	UJ	Low TCX recovery	680-716342	680-213746-5
T-18F	4/6/2022	PCB-1268	0.5	<U	ug/L	UJ	Low TCX recovery	680-716342	680-213746-5
T-09	4/7/2022	PCB-1016	0.5	<U *- *1	ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria	680-716504	680-213810-1
OWR-11F	4/7/2022	PCB-1016, Dissolved	0.5	<U *- *1	ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria	680-716504	680-213810-10
T-09F	4/7/2022	PCB-1016, Dissolved	0.5	<U *- *1	ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria	680-716504	680-213810-2
Field Duplicate 3	4/7/2022	PCB-1016	0.5	<U *- *1	ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria	680-716504	680-213810-3
OWR-13	4/7/2022	PCB-1016	0.5	<U *- *1	ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria	680-716504	680-213810-4
OWR-13F	4/7/2022	PCB-1016, Dissolved	0.5	<U *- *1	ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria	680-716504	680-213810-5
T-10	4/7/2022	PCB-1016	0.5	<U *- *1	ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria	680-716504	680-213810-6
T-20	4/7/2022	PCB-1016	0.5	<U *- *1	ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria	680-716504	680-213810-7
T-20F	4/7/2022	PCB-1016, Dissolved	0.5	<U *- *1	ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria	680-716504	680-213810-8
OWR-11	4/7/2022	PCB-1016	0.5	<U *- *1	ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria	680-716504	680-213810-9
MW-01B	4/8/2022	PCB-1016	0.5	<U *- *1	ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria	680-716504	680-213811-1
MW-16	4/8/2022	PCB-1016	0.5	<U *- *1	ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria	680-716910	680-213811-2
MW-16F	4/8/2022	PCB-1016, Dissolved	0.5	<U *- *1	ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria	680-716504	680-213811-3
MW-15	4/8/2022	PCB-1016	0.5	<U *- *1	ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria	680-716504	680-213811-4
MW-15F	4/8/2022	PCB-1016, Dissolved	0.5	<U *- *1	ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria	680-716504	680-213811-5
OW-06A	4/8/2022	PCB-1016	0.5	<U *- *1	ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria	680-716496	680-213811-6
OW-10	4/11/2022	Mercury	0.012		mg/L	J	Original and duplicate sample RPD exceeds control limits	680-716634	680-213886-5
OW-10	4/11/2022	PCB-1016	0.5	<U	ug/L	UJ	Low TCX recovery	680-718000	680-213886-5
OW-10	4/11/2022	PCB-1221	0.5	<U	ug/L	UJ	Low TCX recovery	680-718000	680-213886-5
OW-10	4/11/2022	PCB-1232	0.5	<U	ug/L	UJ	Low TCX recovery	680-718000	680-213886-5
OW-10	4/11/2022	PCB-1242	0.5	<U	ug/L	UJ	Low TCX recovery	680-718000	680-213886-5
OW-10	4/11/2022	PCB-1248	1.7		ug/L	J	Low TCX recovery	680-718000	680-213886-5
OW-10	4/11/2022	PCB-1254	0.5	<U	ug/L	UJ	Low TCX recovery	680-718000	680-213886-5
OW-10	4/11/2022	PCB-1260	0.5	<U F1	ug/L	UJ	Low MS/MSD rocvery, low TCX recovery	680-718000	680-213886-5
OW-10	4/11/2022	PCB-1268	0.5	<U	ug/L	UJ	Low TCX recovery	680-718000	680-213886-5
OW-10F	4/11/2022	Mercury	0.013		mg/L	J	Original and duplicate sample RPD exceeds control limits	680-716636	680-213886-7
Field Duplicate 4F	4/11/2022	Mercury	0.0022		mg/L	J	Original and duplicate sample RPD exceeds control limits	680-716636	680-213886-8
Field Duplicate 4	4/11/2022	Mercury	0.0023		mg/L	J	Original and duplicate sample RPD exceeds control limits	680-716636	680-213886-6
Field Duplicate 4	4/11/2022	PCB-1016	0.5	<U	ug/L	UJ	Low TCX recovery	680-718000	680-213886-6
Field Duplicate 4	4/11/2022	PCB-1221	0.5	<U	ug/L	UJ	Low TCX recovery	680-718000	680-213886-6
Field Duplicate 4	4/11/2022	PCB-1232	0.5	<U	ug/L	UJ	Low TCX recovery	680-718000	680-213886-6
Field Duplicate 4	4/11/2022	PCB-1242	0.5	<U	ug/L	UJ	Low TCX recovery	680-718000	680-213886-6
Field Duplicate 4	4/11/2022	PCB-1248	1.9		ug/L	J	Low TCX recovery	680-718000	680-213886-6
Field Duplicate 4	4/11/2022	PCB-1254	0.5	<U	ug/L	UJ	Low TCX recovery	680-718000	680-213886-6
Field Duplicate 4	4/11/2022	PCB-1260	0.5	<U	ug/L	UJ	Low TCX recovery	680-718000	680-213886-6

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TABLE F.2
QUALIFIED ANALYTICAL DATA

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Sample ID	Sample Date	Analyte	Lab Result	Lab Qualifier	Units	Data Validation Qualifier	Reason for Qualification	Batch Number	Report Number
April 2022 (Cont.)									
Field Duplicate 4	4/11/2022	PCB-1268	0.5	<U	ug/L	UJ	Low TCX recovery	680-718000	680-213886-6
PURGEWATER	4/11/2022	PCB-1016	0.5	<U	ug/L	UJ	Low DCB recovery	680-718199	680-213916-10
PURGEWATER	4/11/2022	PCB-1221	0.5	<U	ug/L	UJ	Low DCB recovery	680-718199	680-213916-10
PURGEWATER	4/11/2022	PCB-1232	0.5	<U	ug/L	UJ	Low DCB recovery	680-718199	680-213916-10
PURGEWATER	4/11/2022	PCB-1242	0.5	<U	ug/L	UJ	Low DCB recovery	680-718199	680-213916-10
PURGEWATER	4/11/2022	PCB-1248	0.5	<U	ug/L	UJ	Low DCB recovery	680-718199	680-213916-10
PURGEWATER	4/11/2022	PCB-1254	0.5	<U	ug/L	UJ	Low DCB recovery	680-718199	680-213916-10
PURGEWATER	4/11/2022	PCB-1260	0.5	<U	ug/L	UJ	Low DCB recovery	680-718199	680-213916-10
PURGEWATER	4/11/2022	PCB-1268	0.5	<U	ug/L	UJ	Low DCB recovery	680-718199	680-213916-10
OW-22F	4/10/2022	PCB-1016, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-718000	680-213916-4
OW-22F	4/10/2022	PCB-1221, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-718000	680-213916-4
OW-22F	4/10/2022	PCB-1232, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-718000	680-213916-4
OW-22F	4/10/2022	PCB-1242, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-718000	680-213916-4
OW-22F	4/10/2022	PCB-1248, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-718000	680-213916-4
OW-22F	4/10/2022	PCB-1254, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-718000	680-213916-4
OW-22F	4/10/2022	PCB-1260, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-718000	680-213916-4
OW-22F	4/10/2022	PCB-1268, Dissolved	0.5	<U	ug/L	UJ	Low DCB recovery	680-718000	680-213916-4
OW-21A	4/10/2022	Chlorobenzene	8.8	H	ug/L	J	Analyzed outside holding time	680-717445	680-213916-7
October 2022									
MW-12A	10/25/2022	4-Nitrophenol	25	<U	ug/L	UJ	Extraction outside technical holding time	680-749166	680-224226-1
MW-12A	10/25/2022	o,o',o''-Triethylphosphorothioate	10	<U	ug/L	UJ	Extraction outside technical holding time	680-749166	680-224226-1
MW-12A	10/25/2022	Parathion	1	<U H	ug/L	UJ	Extraction outside technical holding time	280-592380	680-224226-1
MW-16	10/25/2022	4-Nitrophenol	25		ug/L	J	Extraction outside technical holding time	680-749166	680-224226-2
MW-16	10/25/2022	o,o',o''-Triethylphosphorothioate	49		ug/L	J	Extraction outside technical holding time	680-749166	680-224226-2
MW-15	10/25/2022	4-Nitrophenol	25	<U	ug/L	UJ	Extraction outside technical holding time	680-749166	680-224226-3
MW-15	10/25/2022	o,o',o''-Triethylphosphorothioate	10	<U	ug/L	UJ	Extraction outside technical holding time	680-749166	680-224226-3
MW-15	10/25/2022	Parathion	1	<U H	ug/L	UJ	Extraction outside technical holding time	280-592380	680-224226-3
MW-15	10/25/2022	Tetraethyldithiopyrophosphate	1.5	<U H	ug/L	UJ	Extraction outside technical holding time	280-592380	680-224226-3
MW-20A	10/26/2022	PCB-1016	0.5	<U	ug/L	UJ	Low DCB recovery	680-753197	680-224226-4
MW-20A	10/26/2022	PCB-1221	0.5	<U	ug/L	UJ	Low DCB recovery	680-753197	680-224226-4
MW-20A	10/26/2022	PCB-1232	0.5	<U	ug/L	UJ	Low DCB recovery	680-753197	680-224226-4
MW-20A	10/26/2022	PCB-1242	0.5	<U	ug/L	UJ	Low DCB recovery	680-753197	680-224226-4
MW-20A	10/26/2022	PCB-1248	0.5	<U	ug/L	UJ	Low DCB recovery	680-753197	680-224226-4
MW-20A	10/26/2022	PCB-1254	0.5	<U	ug/L	UJ	Low DCB recovery	680-753197	680-224226-4
MW-20A	10/26/2022	PCB-1260	0.5	<U	ug/L	UJ	Low DCB recovery	680-753197	680-224226-4
MW-20A	10/26/2022	PCB-1268	0.5	<U	ug/L	UJ	Low DCB recovery	680-753197	680-224226-4
MW-01B	10/25/2022	4-Nitrophenol	25	<U	ug/L	UJ	Extraction outside technical holding time	680-749166	680-224226-5
MW-01B	10/25/2022	o,o',o''-Triethylphosphorothioate	10	<U	ug/L	UJ	Extraction outside technical holding time	680-749166	680-224226-5
MW-01B	10/25/2022	Parathion	1	<U H	ug/L	UJ	Extraction outside technical holding time	280-592380	680-224226-5
MW-01B	10/25/2022	Tetraethyldithiopyrophosphate	1.5	<U H	ug/L	UJ	Extraction outside technical holding time	280-592380	680-224226-5
DUPLICATE	10/26/2022	Parathion	1	<U	ug/L	UJ	Low Triphenylphosphate recovery	280-592380	680-224226-6
DUPLICATE	10/26/2022	Tetraethyldithiopyrophosphate	1.5	<U	ug/L	UJ	Low Triphenylphosphate recovery	280-592380	680-224226-6
MW-11A	10/26/2022	Parathion	1	<U	ug/L	UJ	Low Triphenylphosphate recovery	280-592380	680-224226-7
Purge water	10/22/2022	PCB-1016	0.5	<U	ug/L	UJ	Low DCB recovery	680-753197	680-224226-9

TABLE F.2
QUALIFIED ANALYTICAL DATA

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Sample ID	Sample Date	Analyte	Lab Result	Lab Qualifier	Units	Data Validation Qualifier	Reason for Qualification	Batch Number	Report Number
October 2022 (Cont.)									
Purge water	10/22/2022	PCB-1221	0.5	<U	ug/L	UJ	Low DCB recovery	680-753197	680-224226-9
Purge water	10/22/2022	PCB-1232	0.5	<U	ug/L	UJ	Low DCB recovery	680-753197	680-224226-9
Purge water	10/22/2022	PCB-1242	0.5	<U	ug/L	UJ	Low DCB recovery	680-753197	680-224226-9
Purge water	10/22/2022	PCB-1248	0.5	<U	ug/L	UJ	Low DCB recovery	680-753197	680-224226-9
Purge water	10/22/2022	PCB-1254	0.5	<U	ug/L	UJ	Low DCB recovery	680-753197	680-224226-9
Purge water	10/22/2022	PCB-1260	0.5	<U	ug/L	UJ	Low DCB recovery	680-753197	680-224226-9
Purge water	10/22/2022	PCB-1268	0.5	<U	ug/L	UJ	Low DCB recovery	680-753197	680-224226-9
MW-16	10/25/2022	Parathion	1	<U H	ug/L	UJ	Extraction outside technical holding time	280-592829	680-224330-1
MW-16	10/25/2022	Tetraethyldithiopyrophosphate	1.5	<U H	ug/L	UJ	Extraction outside technical holding time	280-592829	680-224330-1

Notes:
1. Samples analyzed by Eurofins Denver, Eurofins Savannah, and Eurofins Lancaster Laboratories Environment Testing

2. DCB = Decachlorobiphenyl
LCS = Lab Control Sample
LCSD = Lab Control Sample Duplicate
MDL = Method Detection Limit
PCB = Polychlorinated Biphenyl
PQL = Practical Quantitation Limit
RL = Reporting Limit
RPD = Relative Percent Difference
TPP = Triphenylphosphate

3. Lab Qualifier Codes:
<U = Analyte was not detected at or above the reporting limit
H = Sample was prepped or analyzed beyond the specified holding time
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*+ = LCS and/or LCSD is outside acceptance limits, high biased.
*- = LCS and/or LCSD is outside acceptance limits, low biased.
*1 = LCS/LCSD RPD exceeds control limits.

4. Validation Qualifier Codes:
J = Estimated, the analyte was detected and identified
UJ = Not detected, estimated
R = Rejected

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TABLE F.3
FIELD PRECISION

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Sample ID	Duplicate Sample ID	Filtered	Sample Date	Matrix	Analyte	Sample Result (µg/L)	Duplicate Result (µg/L)	RPD (%)	Within Limits
April 2022									
MW-20A	Field Duplicate 1	No	4/5/2022	Water	O,O,O-Triethylphosphorothioate	42	34	21.1	Yes
MW-20A	Field Duplicate 1	No	4/5/2022	Water	Pentachlorophenol, 8270 SIM	3.7	3.7	0.0	Yes
OWR-14D	Field Duplicate 2	No	4/6/2022	Water	Aroclor 1248	2.1 J	3.5	50.0	No
OWR-14D	Field Duplicate 2	No	4/6/2022	Water	Tetrachlorobiphenyl	0.23	0.31	29.6	Yes
OWR-14D	Field Duplicate 2	No	4/6/2022	Water	Trichlorobiphenyl	<0.1 J	0.15 J	NC	No
T-09	Field Duplicate 3	No	4/7/2022	Water	Aroclor 1248	3.7	4	7.8	Yes
T-09	Field Duplicate 3	No	4/7/2022	Water	Aroclor 1254	0.89	0.98	9.6	Yes
OW-10	Field Duplicate 4	No	4/11/2022	Water	Aroclor 1248	1.7 J	1.9 J	11.1	Yes
OW-10F	Field Duplicate 4F	Yes	4/11/2022	Water	Manganese	1100	1000	9.5	Yes
OW-10	Field Duplicate 4	No	4/11/2022	Water	Manganese	1100	1100	0.0	Yes
OW-10F	Field Duplicate 4F	Yes	4/11/2022	Water	Mercury	13	2.2	142.1	No
OW-10	Field Duplicate 4	No	4/11/2022	Water	Mercury	12 J	2.3 J	135.7	No
OW-10	Field Duplicate 4	No	4/11/2022	Water	Trichloroethylene	3.7	3.6	2.7	Yes
October 2022									
MW-20A	DUPLICATE	No	10/26/2022	Water	Chlorobenzene	1.4	1.8	25.0	Yes
MW-20A	DUPLICATE	No	10/26/2022	Water	O,O,O-Triethylphosphorothioate	39	45	14.3	Yes

Notes:
1. Samples analyzed by Eurofins Denver, Eurofins Savannah, and Eurofins Lancaster Laboratories Environment Testing

2. RPD = ABS(((SR - DR)*200))/(SR + DR). DR = Duplicate Result
SR = Sample Result NC = Not Calculated

2022 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia Inc. Anniston, Alabama

RCRA Post-Closure Permit ALD 004 019 048

Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDIX G

Appendix G. Mann-Kendall Statistical Analyses

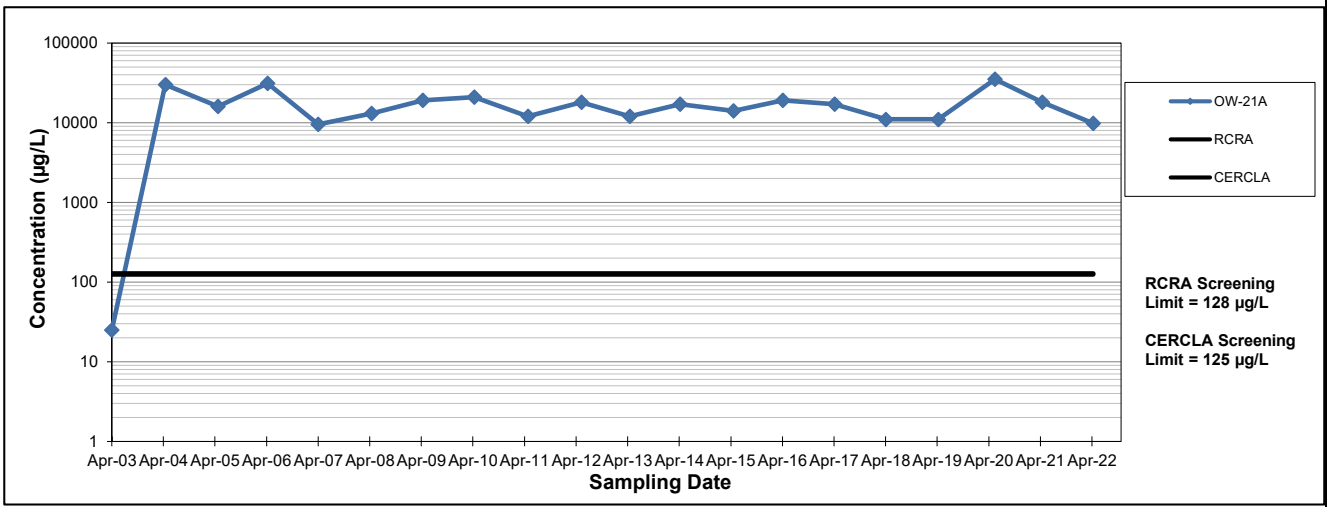
GSI ENVIRONMENTAL

FIGURE G.1
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
4-NITROPHENOL - RCRA CORRECTIVE ACTION MONITORING

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Date Analyzed:	**27 January 2023**	**Constituent:**	**4-Nitrophenol**
Facility:	**Solutia, Anniston**	**Concentration Units:**	**µg/L**

Well Identification:		**OW-21A**	**OW-21A**					
Sampling Event	**Date**	**4-NITROPHENOL CONCENTRATION (µg/L)**						
1	Apr-03	25	-					
2	Apr-04	30000	30000					
3	Apr-05	16000	16000					
4	Apr-06	31000	31000					
5	Apr-07	9500	9500					
6	Apr-08	13000	13000					
7	Apr-09	19000	19000					
8	Apr-10	21000	21000					
9	Apr-11	12000	12000					
10	May-12	18000	18000					
11	Apr-13	12000	12000					
12	Apr-14	17000	17000					
13	Apr-15	14000	14000					
14	Apr-16	19000	19000					
16	Apr-17	17000	17000					
18	Apr-18	11000	11000					
20	Apr-19	11000	11000					
22	May-20	35000	35000					
24	Apr-21	18000	18000					
26	Apr-22	9800	9800					
Coefficient of Variation:		0.49	0.42					
Mann-Kendall Statistic (S):		-11	-30					
Confidence Factor:		62.6%	84.3%					
Concentration Trend:		Stable	Stable					



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
5. For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
6. When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

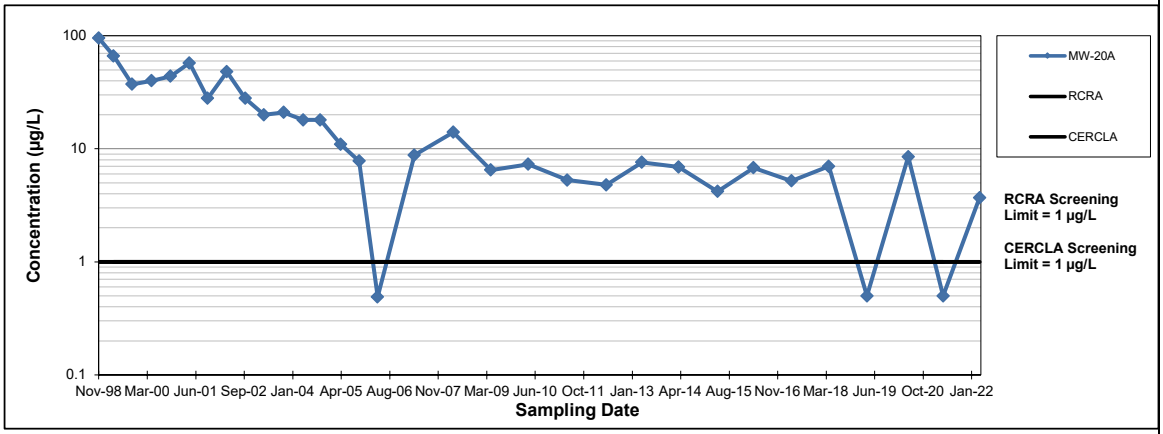
GSI ENVIRONMENTAL

FIGURE G.2
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
PENTACHLOROPHENOL - RCRA CORRECTIVE ACTION MONITORING

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Date Analyzed:	**27 January 2023**	**Constituent:**	**Pentachlorophenol**
Facility:	**Solutia, Anniston**	**Concentration Units:**	**µg/L**

Well Identification:		**MW-20A**
Sampling Event	**Date**	**PENTACHLOROPHENOL CONCENTRATION (µg/L)**
1	Nov-98	95.4
2	Apr-99	66.3
3	Oct-99	37.3
4	Apr-00	40
5	Oct-00	43.8
6	Apr-01	57.5
7	Oct-01	28
8	Apr-02	48
9	Oct-02	28
10	Apr-03	20
11	Oct-03	21
12	Apr-04	18
13	Oct-04	18
14	Apr-05	11
15	Oct-05	7.8
16	Apr-06	**0.49**
17	Apr-07	8.8
18	Apr-08	14
19	Apr-09	6.5
20	Apr-10	7.3
21	Apr-11	5.3
22	May-12	4.8
23	Apr-13	7.6
24	Apr-14	6.9
25	Apr-15	4.2
26	Apr-16	6.8
27	Apr-17	5.2
28	Apr-18	7
29	Apr-19	**0.5**
30	May-20	8.5
15	Apr-21	**0.5**
16	Apr-22	3.7
Coefficient of Variation:		**1.11**
Mann-Kendall Statistic (S):		**-361**
Confidence Factor:		**>99.9%**
Concentration Trend:		**Decreasing**



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
5. For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
6. When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

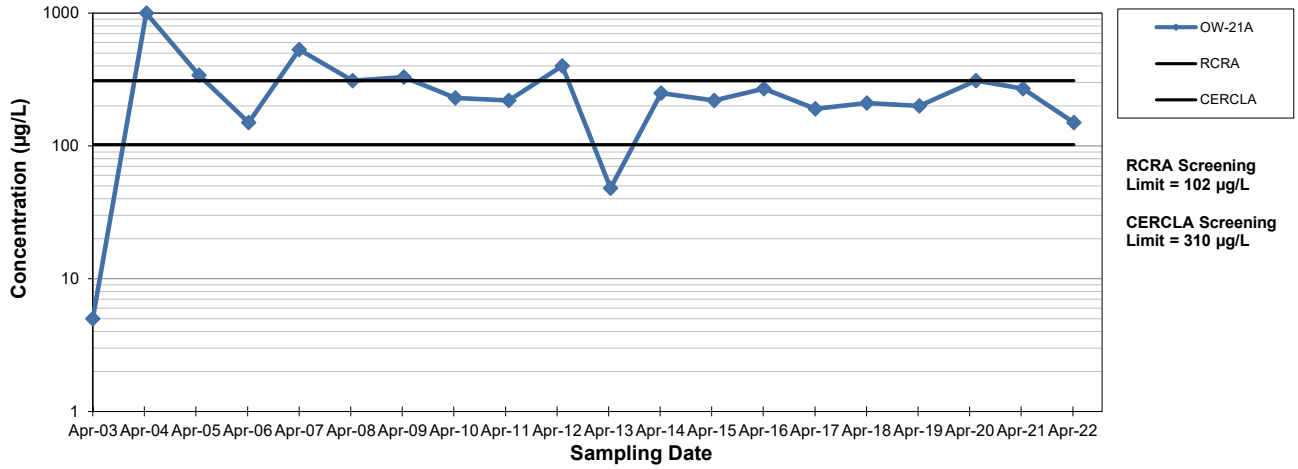
GSI ENVIRONMENTAL

FIGURE G.3
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
O,O,O-TRIETHYLPHOSPHOROTHIOATE - RCRA CORRECTIVE ACTION MONITORING

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Date Analyzed:	**27 January 2023**	**Constituent:**	**O,O,O-Triethylphosphorothioate**
Facility:	**Solutia, Anniston**	**Concentration Units:**	**µg/L**

Well Identification:		**OW-21A**						
Sampling Event	**Date**	**O,O,O-TRIETHYLPHOSPHOROTHIOATE CONCENTRATION (µg/L)**						
1	Apr-03	**5**						
2	Apr-04	**1000**						
3	Apr-05	340						
4	Apr-06	150						
5	Apr-07	530						
6	Apr-08	310						
7	Apr-09	330						
8	Apr-10	230						
9	Apr-11	220						
10	May-12	400						
11	Apr-13	**48**						
12	Apr-14	**250**						
13	Apr-15	220						
14	Apr-16	270						
16	Apr-17	190						
18	Apr-18	210						
20	Apr-19	200						
22	May-20	310						
24	Apr-21	270						
26	Apr-22	150						
Coefficient of Variation:		**0.73**						
Mann-Kendall Statistic (S):		**-42**						
Confidence Factor:		**90.7%**						
Concentration Trend:		**Prob. Decreasing**						



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
5. For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
6. When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

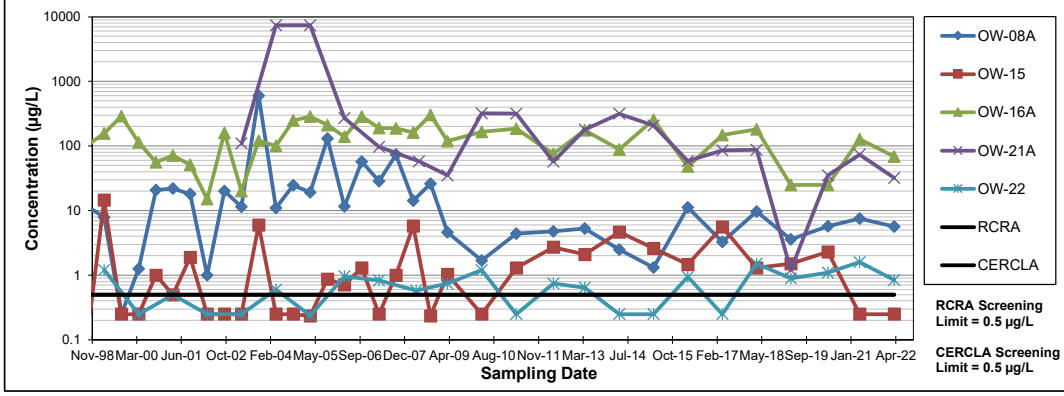
GSI ENVIRONMENTAL

FIGURE G.4
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
TOTAL PCBs - RCRA CORRECTIVE ACTION MONITORING

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Date Analyzed:	**27 January 2023**	**Constituent:**	**Total PCBs**
Facility:	**Solutia, Anniston**	**Concentration Units:**	**µg/L**

Well Identification:		OW-08A	OW-15	OW-16A	OW-21A	OW-22		
Sampling Event	Date	TOTAL PCBS CONCENTRATION (µg/L)						
1	Nov-98	11	0.25	110	-	-		
2	Apr-99	7.9	14.5	155.8	-	1.2		
3	Oct-99	0.25	0.25	290	-	-		
4	Apr-00	1.25	0.25	114	-	0.25		
5	Oct-00	20.67	1	56	-	-		
6	Apr-01	22	0.5	71	-	0.5		
7	Oct-01	18	1.9	51	-	-		
8	Apr-02	1	0.25	15	-	0.25		
9	Oct-02	20	0.25	160	-	-		
10	Apr-03	11.5	0.25	20	110	0.25		
11	Oct-03	600	6	120	-	-		
12	Apr-04	11	0.25	100	7400	0.6		
13	Oct-04	24.6	0.25	248	-	-		
14	Apr-05	19.1	0.24	285	7400	0.24		
15	Oct-05	130	0.87	210	-	-		
16	Apr-06	11.62	0.71	140	270	0.96		
17	Oct-06	57	1.3	286	-	-		
18	Apr-07	28.6	0.25	190	96.3	0.83		
19	Oct-07	73.2	1	188	-	-		
20	Apr-08	14.18	5.8	161	-	-		
21	May-08	-	-	-	-	0.58		
22	Jun-08	-	-	-	58	-		
23	Oct-08	26	0.24	304	-	-		
24	Apr-09	4.61	1.03	119	35	0.74		
25	Apr-10	1.69	0.25	165.1	322	1.2		
26	Apr-11	4.4	1.3	185	318	0.25		
27	May-12	4.77	2.71	75	57	0.74		
28	Apr-13	5.3	2.1	176	180	0.64		
29	Apr-14	2.5	4.64	88	315	0.25		
30	Apr-15	1.31	2.6	256	207	0.25		
31	Apr-16	11.27	1.47	48	58.62	0.94		
33	Apr-17	3.26	5.57	148	85	0.25		
35	Apr-18	9.71	1.3	182	87	1.5		
37	Apr-19	3.6	1.5	25	1.2	0.89		
39	May-20	5.7	2.3	25	35	1.1		
41	Apr-21	7.5	0.25	127	73.8	1.6		
43	Apr-22	5.68	0.25	69	31.88	0.84		
Coefficient of Variation:		3.01	1.52	0.59	2.61	0.59		
Mann-Kendall Statistic (S):		-92	122	-18	-84	71		
Confidence Factor:		90.2%	95.7%	59.5%	99.7%	95.9%		
Concentration Trend:		Prob. Decreasing	Increasing	Stable	Decreasing	Increasing		



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0). ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
5. For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
6. When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

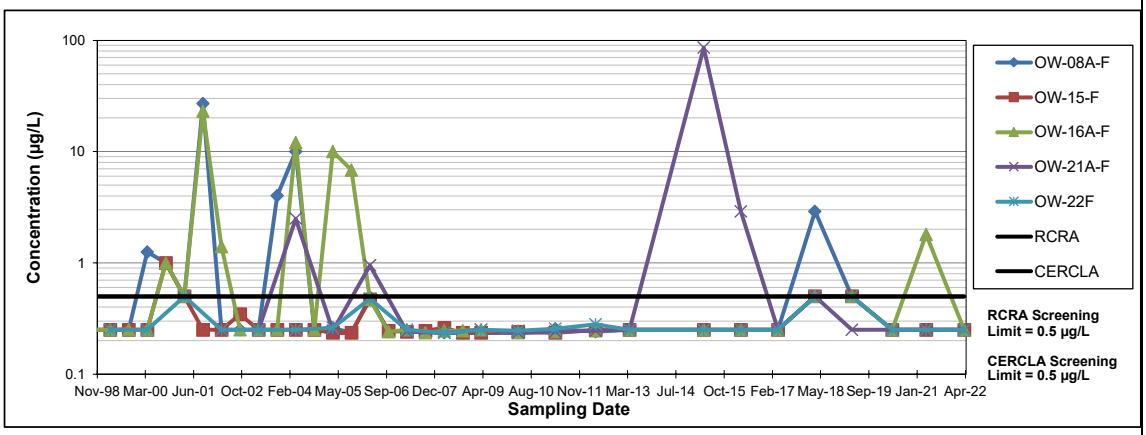
GSI ENVIRONMENTAL

FIGURE G.5
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
TOTAL PCBS - FILTERED - RCRA CORRECTIVE ACTION MONITORING

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Date Analyzed: 27 January 2023
Facility: Solutia, Anniston
Constituent: Total PCBs - Filtered
Concentration Units: µg/L

Well Identification:		OW-08A-F	OW-15-F	OW-16A-F	OW-21A-F	OW-22F		
Sampling Event	Date	TOTAL PCBS - FILTERED CONCENTRATION (µg/L)						
1	Nov-98	0.25	0.25	0.25	-	-		
2	Apr-99	0.25	0.25	0.25	-	0.25		
3	Oct-99	0.25	0.25	0.25	-	-		
4	Apr-00	1.25	0.25	0.25	-	0.25		
5	Oct-00	1	1	1	-	-		
6	Apr-01	0.5	0.50	0.50	-	0.5		
7	Oct-01	27	0.25	23	-	-		
8	Apr-02	0.25	0.25	1.4	-	0.25		
9	Oct-02	0.25	0.35	0.25	-	-		
10	Apr-03	0.25	0.25	0.25	0.25	0.25		
11	Oct-03	4	0.25	0.25	-	-		
12	Apr-04	10	0.25	12	2.5	0.25		
13	Oct-04	0.25	0.25	0.25	-	-		
14	Apr-05	0.26	0.24	10	0.25	0.26		
15	Oct-05	0.24	0.24	6.8	-	-		
16	Apr-06	0.49	0.47	0.47	0.95	0.475		
17	Oct-06	0.24	0.25	0.24	-	-		
18	Apr-07	0.25	0.24	0.25	0.24	0.25		
19	Oct-07	0.24	0.25	0.24	-	-		
20	Apr-08	0.24	0.26	0.25	0.24	0.235		
21	Oct-08	0.24	0.24	0.25	-	-		
22	Apr-09	0.24	0.24	0.25	0.25	0.25		
23	Apr-10	0.24	0.24	0.24	0.24	0.245		
24	Apr-11	0.26	0.24	0.24	0.24	0.255		
25	May-12	0.24	0.25	0.25	0.25	0.28		
26	Apr-13	0.25	0.25	0.25	0.25	0.25		
28	Apr-15	0.25	0.25	0.25	85.8	0.25		
29	Apr-16	0.25	0.25	0.25	2.9	0.25		
30	Apr-17	0.25	0.25	0.25	0.25	0.25		
31	Apr-18	2.9	0.5	0.5	0.5	0.5		
32	Apr-19	0.50	0.5	0.5	0.25	0.5		
33	May-20	0.25	0.25	0.25	0.25	0.25		
34	Apr-21	0.25	0.25	1.8	0.25	0.25		
16	Apr-22	0.25	0.25	0.25	0.25	0.25		
Coefficient of Variation:								
Mann-Kendall Statistic (S):								
Confidence Factor:								
Concentration Trend:		Not Detected	Not Detected	Not Detected	Not Detected	Not Detected		



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., 0.0007), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
5. For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
6. When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

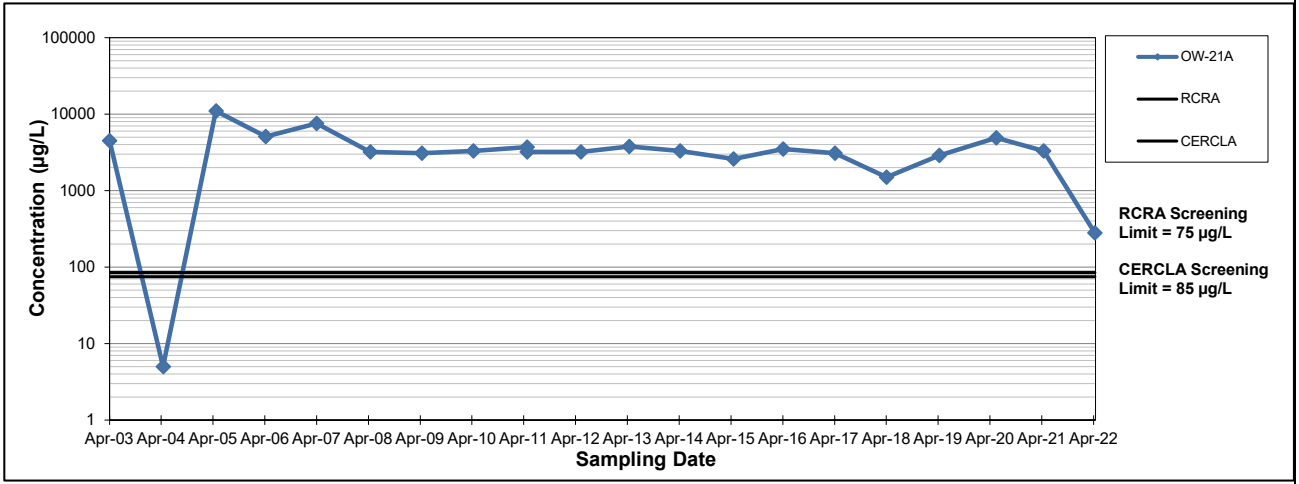
GSI ENVIRONMENTAL

FIGURE G.6
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
PARATHION - RCRA CORRECTIVE ACTION MONITORING

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
RCRA Post-Closure Permit No. ALD 004 019 048

Date Analyzed:	**27 January 2023**	**Constituent:**	**Parathion**
Facility:	**Solutia, Anniston**	**Concentration Units:**	**µg/L**

Well Identification:		**OW-21A**						
Sampling Event	**Date**	**PARATHION CONCENTRATION (µg/L)**						
1	Apr-03	4500						
2	Apr-04	**5**						
3	Apr-05	11000						
4	Apr-06	5100						
5	Apr-07	7600						
6	Apr-08	3200						
7	Apr-09	3100						
8	Apr-10	3300						
9	Apr-11	3700						
10	Apr-11	3200						
11	May-12	3200						
12	Apr-13	3800						
13	Apr-14	3300						
14	Apr-15	2600						
15	Apr-16	3500						
16	Apr-17	3100						
17	Apr-18	1500						
18	Apr-19	2900						
14	May-20	4900						
15	Apr-21	3300						
16	Apr-22	280						
Coefficient of Variation:		**0.63**						
Mann-Kendall Statistic (S):		**-59**						
Confidence Factor:		**96.0%**						
Concentration Trend:		**Decreasing**						



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0). ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
5. For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
6. When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

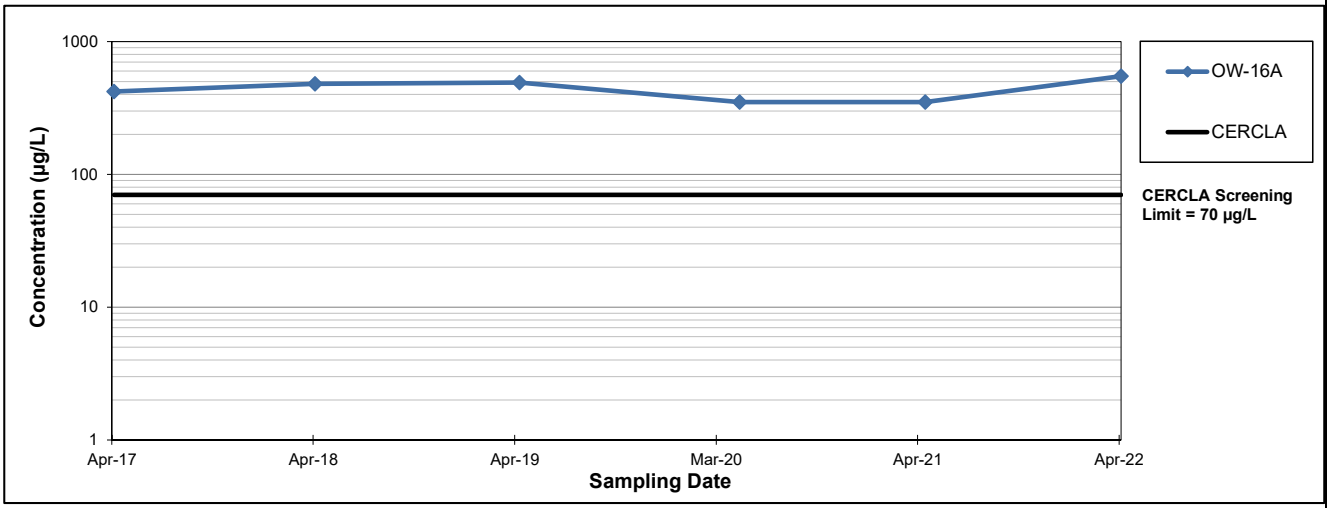
GSI ENVIRONMENTAL

FIGURE G.7
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
1,2,4-TRICHLOROBENZENE - CERCLA REMEDIAL ACTION

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Date Analyzed:	**27 January 2023**	**Constituent:**	**1,2,4-Trichlorobenzene**
Facility:	**Solutia, Anniston**	**Concentration Units:**	**µg/L**

Well Identification:		**OW-16A**						
Sampling Event	**Date**	**1,2,4-TRICHLOROBENZENE CONCENTRATION (µg/L)**						
1	Apr-17	420						
2	Apr-18	480						
3	Apr-19	490						
4	May-20	350						
5	Apr-21	350						
6	Apr-22	550						
Coefficient of Variation:		0.18						
Mann-Kendall Statistic (S):		2						
Confidence Factor:		57.0%						
Concentration Trend:		No Trend						



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
5. For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
6. When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

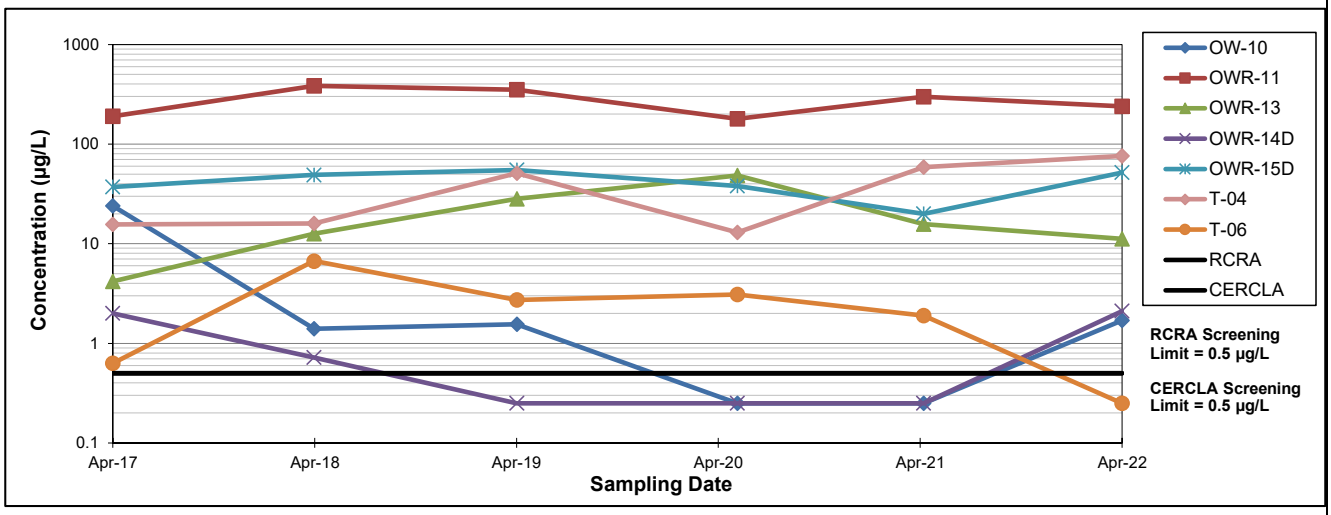
GSI ENVIRONMENTAL

FIGURE G.8(A)
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
TOTAL PCB AROCLORS - CERCLA REMEDIAL ACTION

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
Consent Decree Docket No. 1:02-ec-0749-KOB

Date Analyzed:	**27 January 2023**	**Constituent:**	**Total PCB Aroclors**
Facility:	**Solutia, Anniston**	**Concentration Units:**	**µg/L**

Well Identification:		OW-10	OWR-11	OWR-13	OWR-14D	OWR-15D	T-04	T-06
Sampling Event	Date	TOTAL PCB AROCLORS CONCENTRATION (µg/L)						
1	Apr-17	24	190	4.2	2	37.1	15.6	0.63
2	Apr-18	1.4	384.7	12.62	0.72	49	16	6.7
3	Apr-19	1.55	351.8	28.3	**0.25**	55	51	2.73
4	May-20	**0.25**	180	48.4	**0.25**	38	13	3.1
5	Apr-21	**0.25**	299.5	15.7	**0.25**	20	58.75	1.9
6	Apr-22	1.7	240	11.2	2.1	51.84	76.2	**0.25**
Coefficient of Variation:		1.93	0.31	0.80	0.96	0.31	0.70	0.91
Mann-Kendall Statistic (S):		-4	-3	3	-2	1	9	-5
Confidence Factor:		70.3%	64.0%	64.0%	57.0%	50.0%	93.2%	76.5%
Concentration Trend:		No Trend	Stable	No Trend	Stable	No Trend	Prob. Increasing	Stable



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
5. For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
6. When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

GSI ENVIRONMENTAL

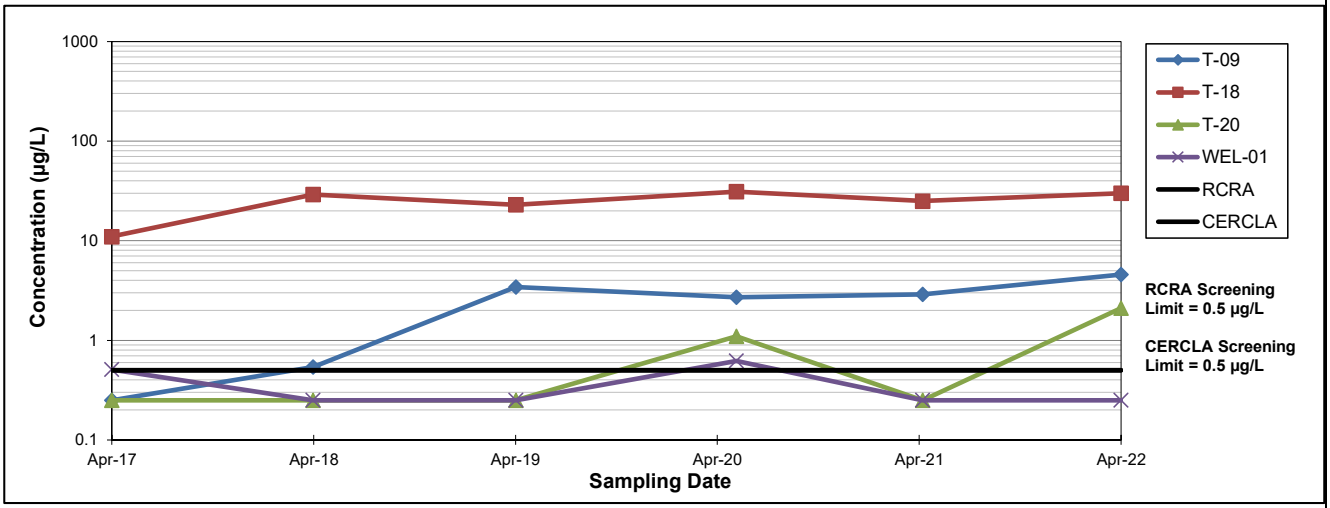
FIGURE G.8(B)
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
TOTAL PCB AROCLORS - CERCLA REMEDIAL ACTION

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
RCRA Post-Closure Permit No. ALD 004 019 048

Date Analyzed: 27 January 2023
Facility: Solutia, Anniston

Constituent: Total PCB Aroclors
Concentration Units: µg/L

Well Identification:		T-09	T-18	T-20	WEL-01			
Sampling Event	Date	TOTAL PCB AROCLORS CONCENTRATION (µg/L)						
1	Apr-17	0.25	11	0.25	0.51			
2	Apr-18	0.54	29	0.25	0.25			
3	Apr-19	3.43	23	0.25	0.25			
4	May-20	2.7	31	1.1	0.62			
5	Apr-21	2.9	25	0.25	0.25			
6	Apr-22	4.59	30	2.1	0.25			
Coefficient of Variation:		0.70	0.30	1.09	0.47			
Mann-Kendall Statistic (S):		11	7	7	-3			
Confidence Factor:		97.2%	86.4%	86.4%	64.0%			
Concentration Trend:		Increasing	No Trend	No Trend	Stable			



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
5. For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
6. When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

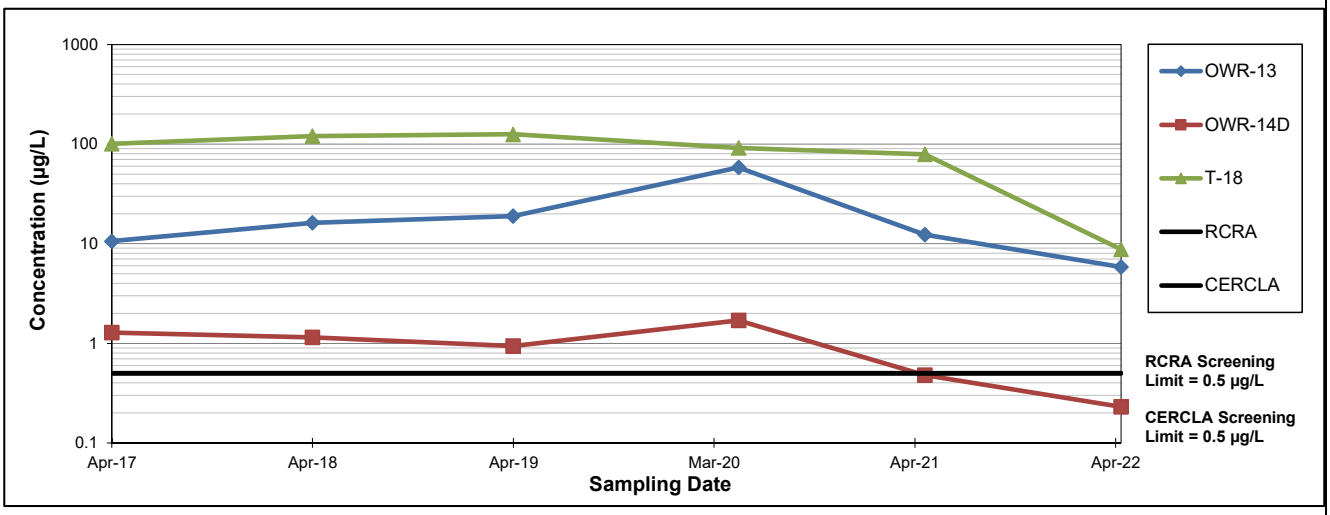
GSI ENVIRONMENTAL

FIGURE G.9
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
TOTAL PCB HOMOLOGS - CERCLA REMEDIAL ACTION

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
RCRA Post-Closure Permit No. ALD 004 019 048

Date Analyzed:	**27 January 2023**	**Constituent:**	**Total PCB Homologs**
Facility:	**Solutia, Anniston**	**Concentration Units:**	**µg/L**

Well Identification:		**OWR-13**	**OWR-14D**	**T-18**				
Sampling Event	**Date**	**TOTAL PCB HOMOLOGS CONCENTRATION (µg/L)**						
1	Apr-17	10.59	1.28	100.7				
2	Apr-18	16.17	1.15	120.1				
3	Apr-19	18.91	0.94	125.4				
4	May-20	58.52	1.7	91.4				
5	Apr-21	12.31	0.48	78.73				
6	Apr-22	5.85	0.23	8.76				
Coefficient of Variation:		**0.94**	**0.56**	**0.48**				
Mann-Kendall Statistic (S):		**-1**	**-9**	**-9**				
Confidence Factor:		**50.0%**	**93.2%**	**93.2%**				
Concentration Trend:		**Stable**	**Prob. Decreasing**	**Prob. Decreasing**				



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
5. For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
6. When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

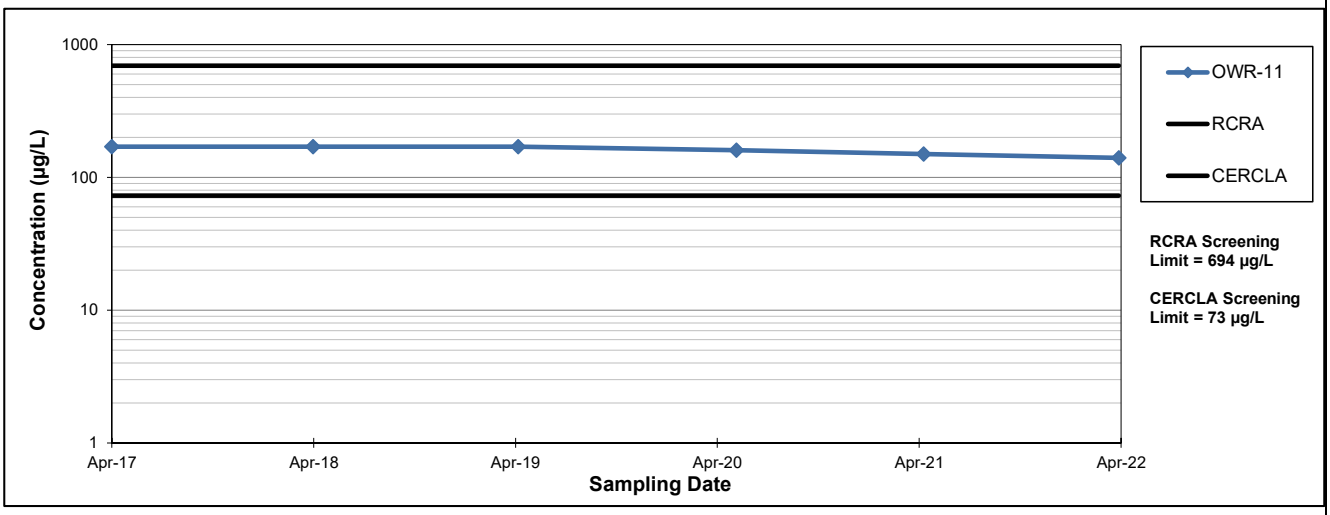
GSI ENVIRONMENTAL

FIGURE G.10
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
COBALT

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
RCRA Post-Closure Permit No. ALD 004 019 048

Date Analyzed:	**27 January 2023**	**Constituent:**	**Cobalt**
Facility:	**Solutia, Anniston**	**Concentration Units:**	**µg/L**

Well Identification:		**OWR-11**						
Sampling Event	**Date**	**COBALT CONCENTRATION (µg/L)**						
1	Apr-17	170						
2	Apr-18	170						
3	Apr-19	170						
4	May-20	160						
5	Apr-21	150						
6	Apr-22	140						
Coefficient of Variation:		0.08						
Mann-Kendall Statistic (S):		-12						
Confidence Factor:		98.2%						
Concentration Trend:		Decreasing						



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
5. For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
6. When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

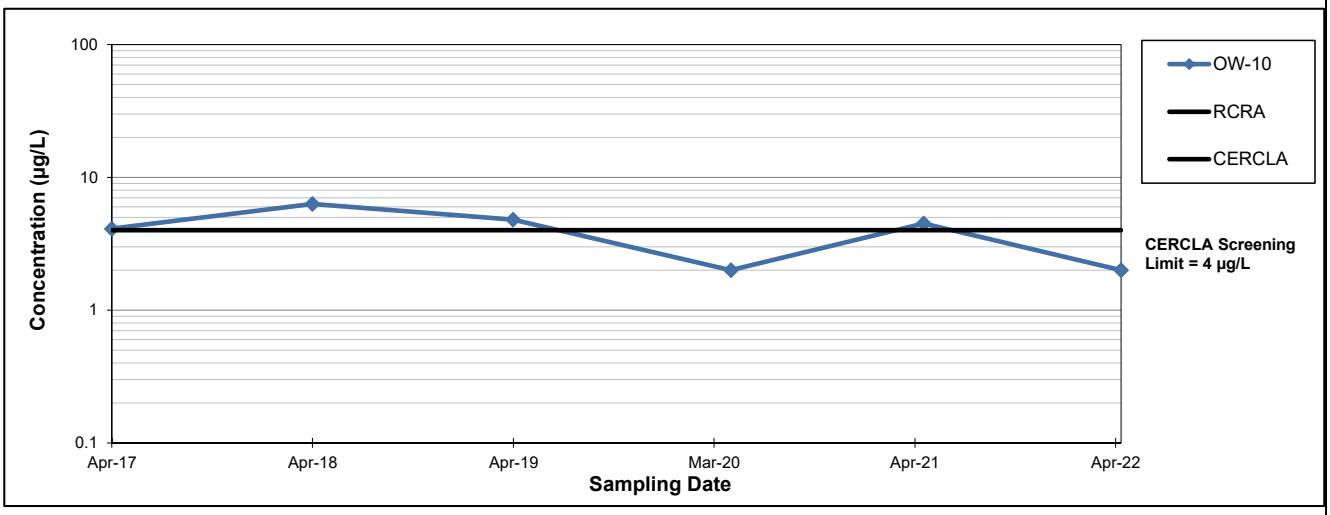
GSI ENVIRONMENTAL

FIGURE G.11
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
BERYLLIUM

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
RCRA Post-Closure Permit No. ALD 004 019 048

Date Analyzed:	**27 January 2023**	**Constituent:**	**Beryllium**
Facility:	**Solutia, Anniston**	**Concentration Units:**	**µg/L**

Well Identification:		**OW-10**						
Sampling Event	**Date**	**BERYLLIUM CONCENTRATION (µg/L)**						
1	Apr-17	4.1						
2	Apr-18	6.3						
3	Apr-19	4.8						
4	May-20	2						
5	Apr-21	4.5						
6	Apr-22	2						
Coefficient of Variation:		0.43						
Mann-Kendall Statistic (S):		-6						
Confidence Factor:		81.5%						
Concentration Trend:		Stable						



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0). ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
5. For events with duplicate and filtered samples, the trend calculation for Beryllium in OW-10 is based on the maximum detection of all samples collected. See Appendix E for duplicate sample results.
6. When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

GSI ENVIRONMENTAL

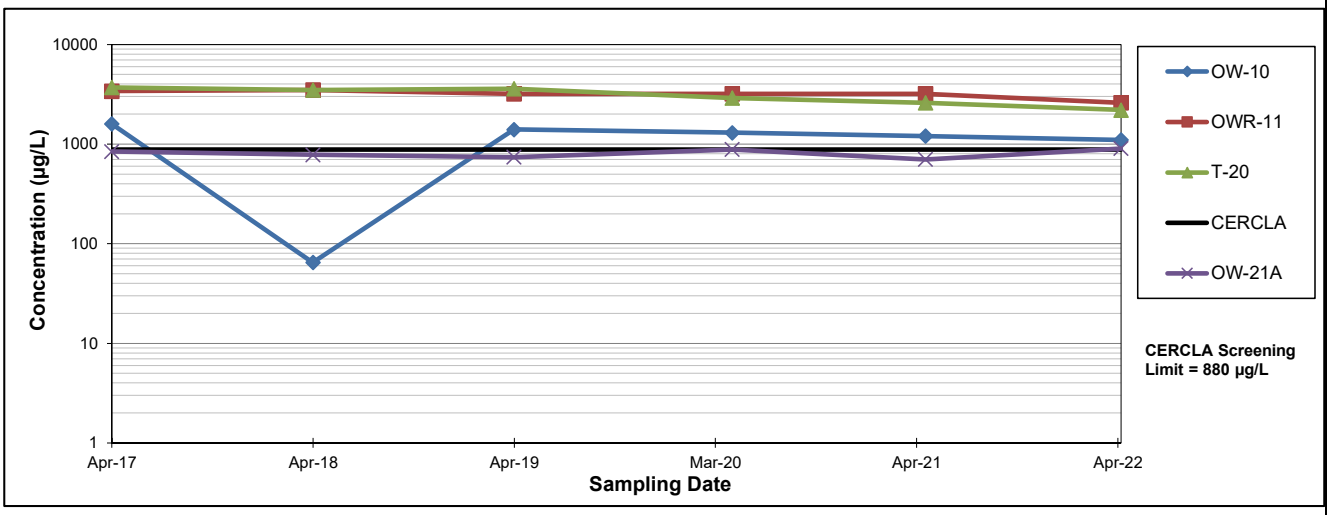
FIGURE G.12
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS: MANGANESE

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
RCRA Post-Closure Permit No. ALD 004 019 048

Date Analyzed: 27 January 2023
Facility: Solutia, Anniston

Constituent: Manganese
Concentration Units: µg/L

Well Identification:		OW-10	OWR-11	T-20	OW-21A			
Sampling Event	Date	MANGANESE CONCENTRATION (µg/L)						
1	Apr-17	1600	3400	3700	840			
2	Apr-18	65	3500	3500	780			
3	Apr-19	1400	3200	3600	740			
4	May-20	1300	3200	2900	880			
5	Apr-21	1200	3200	2600	700			
6	Apr-22	1100	2600	2200	900			
Coefficient of Variation:		0.49	0.10	0.20	0.10			
Mann-Kendall Statistic (S):		-7	-10	-13	1			
Confidence Factor:		86.4%	95.2%	99.2%	50.0%			
Concentration Trend:		Stable	Decreasing	Decreasing	No Trend			



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0). ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
5. For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
6. When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

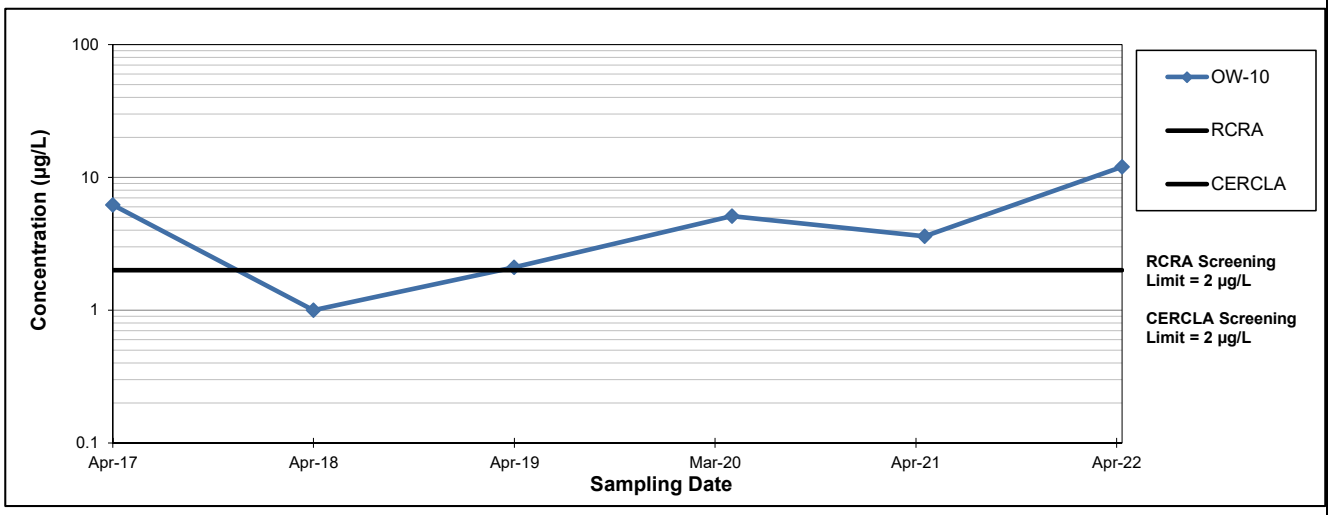
GSI ENVIRONMENTAL

FIGURE G.13
RESULTS OF MANN-KENDALL STATISTICAL TREND ANALYSIS:
MERCURY

Solutia Inc., Anniston, Alabama
RCRA Post-Closure Permit No. ALD 004 019 048
RCRA Post-Closure Permit No. ALD 004 019 048

Date Analyzed:	**30 January 2023**	**Constituent:**	**Mercury**
Facility:	**Solutia, Anniston**	**Concentration Units:**	**µg/L**

Well Identification:		**OW-10**						
Sampling Event	**Date**	**MERCURY CONCENTRATION (µg/L)**						
1	Apr-17	6.2						
2	Apr-18	1						
3	Apr-19	2.1						
4	May-20	5.1						
5	Apr-21	3.6						
6	Apr-22	12						
Coefficient of Variation:		**0.78**						
Mann-Kendall Statistic (S):		**5**						
Confidence Factor:		**76.5%**						
Concentration Trend:		**No Trend**						



Notes:
1. At least four independent sampling events per well are required for calculating the trend. *Methodology is only valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0).
   ≥ 90% = Probably Increasing or Decreasing; >95% = Increasing or Decreasing.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water*, 41(3):355-367, 2003.
4. Non-detects are shown in blue (e.g., **0.0007**), and are quanitified as one-half of the method detection limit for calculation of Mann-Kendall statistics.
5. For events with duplicate samples, the trend calculation is based on the original sample result. See Appendix E for duplicate sample results.
6. When more than 75% of the samples in a given well are non-detect results, a trend is not calculated to avoid calculating a trend on detection limits.

2022 ANNUAL GROUNDWATER DETECTION MONITORING AND CORRECTIVE ACTION EFFECTIVENESS REPORT

Solutia Inc. Anniston, Alabama

RCRA Post-Closure Permit ALD 004 019 048

Consent Decree Docket No. 1:02-ec-0749-KOB

APPENDIX H

Appendix H. Laboratory Reports

APRIL 2022 LABORATORY REPORTS

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QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: RCRA Groundwater Monitoring Project Number: 680-213610-1
Reviewer: Ben Smith Validation Date: 3 May 2022

Laboratory: Eurofins TestAmerica Savannah SDG #: 680-213610-1
Analytical Method (type and no.): VOCs (8260B), SVOCS (8270D), SVOCS (8270D SIM), PCBs (8081A/8082B), Pesticides (8141B)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: MW-20A, MW-20AF, MW-13A, OW-15, OW-15F, OW-16A, OW-16AF, Field Duplicate 1, Tripblank 20220406

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?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	Field Duplicate 1 (@ MW-20A), MS/MSD (@ MW-20A), Tripblank 20220406
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☐	☒	☐	Temperature correction for ORP standard value incorrectly calculated. Correct value at ~17.5°C is ~238 mV, but was calculated and calibrated to 283 mV (19% too high) for YSI serial number c2207 (used during purging of OW-08A, MW-20A, and MW-13A) and calculated and calibrated to 241 mV (1% too high) for YSI serial number c2202 (used during purging of OW-16A and OW-15). Incorrect ORP measurements for these five wells is not expected to impact the laboratory analytical data quality. No results are qualified on this basis. All other calibrations are correct and within control limits.
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☒	☐	☐	

Note Deficiencies: At least one of the two surrogates for analysis PCBs by 8081B/8082A of MW-20A, MW-20A MSD, OW-15F, OW-16A, and Field Duplicate 1 were outside acceptance criteria. Further discussion is presented below in the Surrogate Spikes section.

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☐	☒	☐	In OW-16A, RLs for PCB-1221, -1232 and -1254 were 1.8 ug/L instead of 0.5 ug/L due to dilution. -1221 and -1254 were detected and -1232 was non-detect at a RL (1.8 ug/L) above the RCRA Concentration Limit (0.5 ug/L). The non-detect in PCB-1232 in OW-16A is qualified due to the elevated reporting limit.
f) Were any sample dilutions noted?	☒	☐	☐	Yes, OW-16A was diluted 20x for analysis of certain PCBs (-1221, -1232, and -1254) by 8081B/8082A, 4x for analysis of Parathion by 8141B, and 5x for analysis of chlorobenzene and 1,2,4-trichlorobenzene by 8260B.
g) Were any matrix problems noted?	☐	☒	☐	

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☒	☐	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☐	☒	☐	In Analysis Batch 716233, LCS (141%) and LCSD (138%) for 1,2,4-Trichlorobenzene both recovered above the upper control limit (130%). However, 1,2,4-Trichlorobenzene was not detected in Tripblank 20220406, the only field-submitted sample in Analysis Batch 716233, so no results were qualified on this basis. Accuracy criteria was met for all other LCS and LCSD results.

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?				Original – MW-20A
	☒	☐	☐	Duplicate – Field Duplicate 1
b) Were field dup. precision criteria met (note RPD)?	☒	☐	☐	O,O,O-triethylphosphorothioate = 21% = (42 – 34)*200/(42+34); Pentachlorophenol = 0% = (3.7 – 3.7)*200/(3.7+3.7)
c) Were lab duplicates analyzed (note original and duplicate samples)?				Multiple LCSDs
	☒	☐	☐	
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	All LCSD RPDs < 9%

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☒	☐	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☒	☐	
b) Was MSD accuracy criteria met?	☐	☒	☐	MSD recovery for PCB-1016 by 8081B/8082A (in samples collected from MW-20A) was non-detect (<0.5 ug/L), so % recovery was 0 and MS/MSD RPD for PCB-1016 was unable to be calculated. Since % recovery and RPD for PCB-1260 in MS/MSD was within accuracy criteria, the low MSD recovery appears to be restricted to PCB-1016 only. All non-detect results for PCB-1016 in MW-20A and Field Duplicate 1 are qualified as rejected (R).
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☒	☐	As discussed above, MSD recovery for PCB 1016 was non-detect, so % recovery was 0 and MS/MSD RPD was unable to be calculated. PCB-1016 results in MW-20A and Field Duplicate 1 have already been rejected based on low recovery of PCB-1016 in the MSD sample, so no further qualification is required.

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☐	☒	☐	Decachlorobiphenyl (DCB) recovered low (below the lab standard of 14%) for samples MW-20A (13%), MW-20A MSD (11%), Field Duplicate 1 (11%), and OW-15F (11%) for Aroclor analysis by 8081B/80812A. Since all recoveries were greater than the "expanded lower acceptance limit" (10%) specified in the National Functional Guidelines for Organic Superfund Methods Data Review (NFG, 2020), all PCB Aroclor results for MW-20A, Field Duplicate 1, and OW-15F (both non-detect and detected results) are qualified as estimated (UJ), with the exception of the PCB-1016 results already rejected above. In sample OW-16A, recovery of Tetrachloro-m-xylene (TCX) was above (265%) the expanded upper limit (200%) specified in the NFG, so detected PCB Aroclor results in OW-16A may be biased high and are qualified as estimated (J). The %RPD between the primary and confirmation column/detector was >40% (with the lower value reported) for the following surrogates: DCB in MW-20A, MW-20A MSD, and Field Duplicate 1; and TCX in OW-15, OW-15F, OW-16A, OW-16AF. The only detected PCB results for these samples are in OW-16A and have already been qualified above due to high TCX recovery, so no additional qualification is necessary.
b) Were surrogate recoveries not calculated due to dilutions?	☐	☒	☐	

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
OW-16A	PCB-1221	56	J	High TCX recovery
OW-16A	PCB-1232	<1.8	UJ	RL elevated above RCRA Concentration Limit due to dilution required for other PCB Aroclors.
OW-16A	PCB-1254	13	J	High TCX recovery
MW-20A	PCB-1016	<0.5	R	% Recovery for PCB-1016 in the MSD sample was non-detect
MW-20A	PCB-1221	<0.5	UJ	Low DCB recovery
MW-20A	PCB-1232	<0.5	UJ	Low DCB recovery
MW-20A	PCB-1242	<0.5	UJ	Low DCB recovery
MW-20A	PCB-1248	<0.5	UJ	Low DCB recovery
MW-20A	PCB-1254	<0.5	UJ	Low DCB recovery

MW-20A	PCB-1260	<0.5	UJ	Low DCB recovery
MW-20A	PCB-1268	<0.5	UJ	Low DCB recovery
Field Duplicate 1	PCB-1016	<0.5	R	% Recovery for PCB-1016 in the MSD sample was non-detect
Field Duplicate 1	PCB-1221	<0.5	UJ	Low DCB recovery
Field Duplicate 1	PCB-1232	<0.5	UJ	Low DCB recovery
Field Duplicate 1	PCB-1242	<0.5	UJ	Low DCB recovery
Field Duplicate 1	PCB-1248	<0.5	UJ	Low DCB recovery
Field Duplicate 1	PCB-1254	<0.5	UJ	Low DCB recovery
Field Duplicate 1	PCB-1260	<0.5	UJ	Low DCB recovery
Field Duplicate 1	PCB-1268	<0.5	UJ	Low DCB recovery
OW-15F	PCB-1016	<0.5	UJ	Low DCB recovery
OW-15F	PCB-1221	<0.5	UJ	Low DCB recovery
OW-15F	PCB-1232	<0.5	UJ	Low DCB recovery
OW-15F	PCB-1242	<0.5	UJ	Low DCB recovery
OW-15F	PCB-1248	<0.5	UJ	Low DCB recovery
OW-15F	PCB-1254	<0.5	UJ	Low DCB recovery
OW-15F	PCB-1260	<0.5	UJ	Low DCB recovery
OW-15F	PCB-1268	<0.5	UJ	Low DCB recovery

Signature: Wade Benjamin Smith Date: 3 May 2022

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: RCRA Groundwater Monitoring Project Number: 680-213610-1
Reviewer: Ben Smith Validation Date: 3 May 2022

Laboratory: Eurofins TestAmerica Savannah SDG #: 680-213610-1
Analytical Method (type and no.): Metals (6010C), Mercury (7470A)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: MW-20A, OW-15, OW-15F, OW-16A, OW-16AF, Field Duplicate 1

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?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	Field Duplicate 1 (@ MW-20A), MS/MSD (@ MW-20A)
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☐	☒	☐	Temperature correction for ORP standard value incorrectly calculated. Correct value at ~17.5°C is ~238 mV, but was calculated and calibrated to 283 mV (19% too high) for YSI serial number c2207 (used during purging of OW-08A, MW-20A, and MW-13A) and calculated and calibrated to 241 mV (1% too high) for YSI serial number c2202 (used during purging of OW-16A and OW-15). Incorrect ORP measurements for these five wells is not expected to impact the laboratory analytical data quality. No results are qualified on this basis. All other calibrations are correct and within control limits.
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☒	☐	☐	

Note Deficiencies: For analysis of Mercury by 7470A, matrix issues were noted due to low recoveries in the MS/MSD samples, as well as in the sample collected at OW-16A. Further discussion is presented below.

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Were the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☐	☒	☐	In OW-16A, RL for Mercury was 0.8 ug/L instead of 0.2 ug/L. Sample was non-detect for mercury and RL was less than RCRA Concentration Limit, so no qualification is required.
f) Were any sample dilutions noted?	☒	☐	☐	Yes, OW-16A was diluted 10x for analysis of Mercury by 7470A.
g) Were any matrix problems noted?	☒	☐	☐	The narrative noted that for analysis of Mercury by 7470A, "The following sample was diluted due to the nature of the sample matrix: OW-16A (680-213610-5). Interference in the sample caused a high negative result. Elevated reporting limits (RLs) are provided." No data are qualified on this basis as discussed above in (e). Possible matrix interference was noted in the MS/MSD samples (collected at well MW-20A) and are further discussed below in the MS/MSD section.

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?				Original – MW-20A
	☒	☐	☐	Duplicate – Field Duplicate 1
b) Were field dup. precision criteria met (note RPD)?	☐	☐	☒	All inorganic results were non-detect
c) Were lab duplicates analyzed (note original and duplicate samples)?				
	☐	☒	☐	
d) Were lab dup. precision criteria met (note RPD)?	☐	☐	☒	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☒	☐	Hg % recovery = 57%, below 80% lower limit, so non-detect results for Mercury in associated MW-20A and Field Duplicate 1 samples are qualified as estimated (UJ).
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☒	☐	
b) Was MSD accuracy criteria met?	☐	☒	☐	Hg % recovery = 61%, below 80% lower limit, so non-detect results for Mercury in associated MW-20A and Field Duplicate 1 samples are qualified as estimated (UJ).
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☒	☐	
c) Were MS/MSD precision criteria met?	☒	☐	☐	RPD=5%

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
MW-20A	Mercury	<0.2 ug/L	UJ	MS/MSD recoveries below lower control limits
Field Duplicate 1	Mercury	<0.2 ug/L	UJ	MS/MSD recoveries below lower control limits

Signature: Wade Benjamin Smith Date: 3 May 2022

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-213610-1
Client Project/Site: Anniston RCRA April 2022

For:
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Attn: Ben Smith

Amy Weinberg

Authorized for release by:
4/21/2022 1:47:45 PM

Amy Weinberg, Project Manager II
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213610-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
F1	MS and/or MSD recovery exceeds control limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 680-213610-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-213610-1

Comments
No additional comments.

Receipt
The samples were received on 4/7/2022 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.7º C, 1.0º C, 1.6º C, 1.7º C, 2.0º C and 2.9º C.

GC/MS VOA
Method 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: OW-16A (680-213610-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8081B/8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-20A (680-213610-1), MW-20A MSD (680-213610-1[MSD]), OW-15F (680-213610-4), OW-16A (680-213610-5) and Field Duplicate 1 (680-213610-8). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-714813 and analytical batch 680-714957 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 7470A: The following sample was diluted due to the nature of the sample matrix: OW-16A (680-213610-5). Interference in the sample caused a high negative result. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213610-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-213610-1	MW-20A	Water	04/05/22 13:47	04/07/22 10:13
680-213610-2	MW-13A	Water	04/05/22 16:56	04/07/22 10:13
680-213610-3	OW-15	Water	04/05/22 16:19	04/07/22 10:13
680-213610-4	OW-15F	Water	04/05/22 16:19	04/07/22 10:13
680-213610-5	OW-16A	Water	04/05/22 13:53	04/07/22 10:13
680-213610-6	OW-16AF	Water	04/05/22 13:53	04/07/22 10:13
680-213610-7	MW-20AF	Water	04/05/22 13:47	04/07/22 10:13
680-213610-8	Field Duplicate 1	Water	04/05/22 00:00	04/07/22 10:13
680-213610-9	Tripblank 20220406	Water	04/06/22 06:47	04/07/22 10:13

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213610-1

Client Sample ID: MW-20A — Lab Sample ID: 680-213610-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	3.7		1.0	0.98	ug/L	1		8270D SIM	Total/NA
o,o',o''-Triethylphosphorothioate	42		10	0.98	ug/L	1		8270D	Total/NA

Client Sample ID: MW-13A — Lab Sample ID: 680-213610-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.70		0.50	0.088	ug/L	1		8081B/8082A	Total/NA

Client Sample ID: OW-15 — Lab Sample ID: 680-213610-3

No Detections.

Client Sample ID: OW-15F — Lab Sample ID: 680-213610-4

No Detections.

Client Sample ID: OW-16A — Lab Sample ID: 680-213610-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	550		5.0	2.7	ug/L	5		8260B	Total/NA
PCB-1221	56		1.8	1.8	ug/L	20		8081B/8082A	Total/NA
PCB-1254	13		1.8	1.8	ug/L	20		8081B/8082A	Total/NA
Parathion - DL	14		1.0	0.56	ug/L	4		8141B	Total/NA
Cobalt	0.042		0.010	0.0014	mg/L	1		6010C	Total Recoverable
Manganese	0.87		0.010	0.0013	mg/L	1		6010C	Total Recoverable

Client Sample ID: OW-16AF — Lab Sample ID: 680-213610-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt, Dissolved	0.042		0.010	0.0014	mg/L	1		6010C	Dissolved
Manganese, Dissolved	0.86		0.010	0.0013	mg/L	1		6010C	Dissolved

Client Sample ID: MW-20AF — Lab Sample ID: 680-213610-7

No Detections.

Client Sample ID: Field Duplicate 1 — Lab Sample ID: 680-213610-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	3.7		1.0	1.0	ug/L	1		8270D SIM	Total/NA
o,o',o''-Triethylphosphorothioate	34		10	1.0	ug/L	1		8270D	Total/NA

Client Sample ID: Tripblank 20220406 — Lab Sample ID: 680-213610-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample ID: MW-20A

Date Collected: 04/05/22 13:47
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/18/22 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/18/22 15:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*04/18/22 15:54*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*04/18/22 15:54*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*04/18/22 15:54*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**3.7**		1.0	0.98	ug/L		04/08/22 18:05	04/15/22 22:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.52	ug/L		04/08/22 18:05	04/12/22 20:31	1
1,4-Dichlorobenzene	<10		10	0.53	ug/L		04/08/22 18:05	04/12/22 20:31	1
4-Nitrophenol	<25		25	1.9	ug/L		04/08/22 18:05	04/12/22 20:31	1
o,o',o''-Triethylphosphorothioate	**42**		10	0.98	ug/L		04/08/22 18:05	04/12/22 20:31	1
Pentachlorophenol	<50		50	2.0	ug/L		04/08/22 18:05	04/12/22 20:31	1
2,4,6-Trichlorophenol	<10		10	0.83	ug/L		04/08/22 18:05	04/12/22 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*32 - 113*	*04/08/22 18:05*	*04/12/22 20:31*	*1*
2-Fluorophenol	*42*		*26 - 109*	*04/08/22 18:05*	*04/12/22 20:31*	*1*
Nitrobenzene-d5	*56*		*32 - 118*	*04/08/22 18:05*	*04/12/22 20:31*	*1*
Phenol-d5	*44*		*27 - 110*	*04/08/22 18:05*	*04/12/22 20:31*	*1*
Terphenyl-d14	*31*		*10 - 126*	*04/08/22 18:05*	*04/12/22 20:31*	*1*
2,4,6-Tribromophenol	*73*		*39 - 124*	*04/08/22 18:05*	*04/12/22 20:31*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50	F1	0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:00	1
PCB-1221	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:00	1
PCB-1232	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:00	1
PCB-1242	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:00	1
PCB-1248	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:00	1
PCB-1254	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:00	1
PCB-1260	<0.50	F1	0.50	0.058	ug/L		04/12/22 19:10	04/13/22 21:00	1
PCB-1268	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*13*	*S1- p*	*14 - 130*	*04/12/22 19:10*	*04/13/22 21:00*	*1*
Tetrachloro-m-xylene	*43*		*40 - 130*	*04/12/22 19:10*	*04/13/22 21:00*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/11/22 15:14	04/14/22 21:57	1
Sulfotepp	<1.5		1.5	0.16	ug/L		04/11/22 15:14	04/14/22 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*89*		*60 - 154*	*04/11/22 15:14*	*04/14/22 21:57*	*1*

Client Sample ID: MW-20A

Date Collected: 04/05/22 13:47
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-1
Matrix: Water

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/07/22 17:33	04/08/22 16:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	F1	0.00020	0.000080	mg/L		04/08/22 07:51	04/08/22 14:45	1

Client Sample ID: MW-13A

Date Collected: 04/05/22 16:56
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	2.0	ug/L		04/08/22 18:05	04/13/22 21:05	1
o,o',o''-Triethylphosphorothioate	<10		10	1.0	ug/L		04/08/22 18:05	04/13/22 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*43*		*32 - 113*	*04/08/22 18:05*	*04/13/22 21:05*	*1*
2-Fluorophenol	*36*		*26 - 109*	*04/08/22 18:05*	*04/13/22 21:05*	*1*
Nitrobenzene-d5	*42*		*32 - 118*	*04/08/22 18:05*	*04/13/22 21:05*	*1*
Phenol-d5	*34*		*27 - 110*	*04/08/22 18:05*	*04/13/22 21:05*	*1*
Terphenyl-d14	*60*		*10 - 126*	*04/08/22 18:05*	*04/13/22 21:05*	*1*
2,4,6-Tribromophenol	*51*		*39 - 124*	*04/08/22 18:05*	*04/13/22 21:05*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:15	1
PCB-1221	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:15	1
PCB-1232	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:15	1
PCB-1242	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:15	1
PCB-1248	**0.70**		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:15	1
PCB-1254	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:15	1
PCB-1260	<0.50		0.50	0.059	ug/L		04/12/22 19:10	04/13/22 21:15	1
PCB-1268	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*14 - 130*	*04/12/22 19:10*	*04/13/22 21:15*	*1*
Tetrachloro-m-xylene	*45*		*40 - 130*	*04/12/22 19:10*	*04/13/22 21:15*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.15	ug/L		04/11/22 15:14	04/14/22 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*84*		*60 - 154*	*04/11/22 15:14*	*04/14/22 23:55*	*1*

Client Sample ID: OW-15

Date Collected: 04/05/22 16:19
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/18/22 16:13	1

Client Sample ID: OW-15

Date Collected: 04/05/22 16:19
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*04/18/22 16:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*04/18/22 16:13*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*04/18/22 16:13*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*04/18/22 16:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.53	ug/L		04/08/22 18:05	04/13/22 21:29	1
1,4-Dichlorobenzene	<10		10	0.54	ug/L		04/08/22 18:05	04/13/22 21:29	1
4-Nitrophenol	<25		25	1.9	ug/L		04/08/22 18:05	04/13/22 21:29	1
o,o',o''-Triethylphosphorothioate	<10		10	0.99	ug/L		04/08/22 18:05	04/13/22 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*32 - 113*	*04/08/22 18:05*	*04/13/22 21:29*	*1*
2-Fluorophenol	*45*		*26 - 109*	*04/08/22 18:05*	*04/13/22 21:29*	*1*
Nitrobenzene-d5	*54*		*32 - 118*	*04/08/22 18:05*	*04/13/22 21:29*	*1*
Phenol-d5	*47*		*27 - 110*	*04/08/22 18:05*	*04/13/22 21:29*	*1*
Terphenyl-d14	*69*		*10 - 126*	*04/08/22 18:05*	*04/13/22 21:29*	*1*
2,4,6-Tribromophenol	*72*		*39 - 124*	*04/08/22 18:05*	*04/13/22 21:29*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:31	1
PCB-1221	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:31	1
PCB-1232	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:31	1
PCB-1242	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:31	1
PCB-1248	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:31	1
PCB-1254	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:31	1
PCB-1260	<0.50		0.50	0.059	ug/L		04/12/22 19:10	04/13/22 21:31	1
PCB-1268	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*55*		*14 - 130*	*04/12/22 19:10*	*04/13/22 21:31*	*1*
Tetrachloro-m-xylene	*71*	*p*	*40 - 130*	*04/12/22 19:10*	*04/13/22 21:31*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/11/22 15:14	04/15/22 00:33	1
Sulfotepp	<1.5		1.5	0.16	ug/L		04/11/22 15:14	04/15/22 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*89*		*60 - 154*	*04/11/22 15:14*	*04/15/22 00:33*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/07/22 17:33	04/08/22 17:06	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/08/22 07:51	04/08/22 14:58	1

Client Sample ID: OW-15F

Date Collected: 04/05/22 16:19
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-4

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.089	ug/L		04/12/22 19:10	04/13/22 21:47	1
PCB-1221, Dissolved	<0.50		0.50	0.089	ug/L		04/12/22 19:10	04/13/22 21:47	1
PCB-1232, Dissolved	<0.50		0.50	0.089	ug/L		04/12/22 19:10	04/13/22 21:47	1
PCB-1242, Dissolved	<0.50		0.50	0.089	ug/L		04/12/22 19:10	04/13/22 21:47	1
PCB-1248, Dissolved	<0.50		0.50	0.089	ug/L		04/12/22 19:10	04/13/22 21:47	1
PCB-1254, Dissolved	<0.50		0.50	0.089	ug/L		04/12/22 19:10	04/13/22 21:47	1
PCB-1260, Dissolved	<0.50		0.50	0.059	ug/L		04/12/22 19:10	04/13/22 21:47	1
PCB-1268, Dissolved	<0.50		0.50	0.089	ug/L		04/12/22 19:10	04/13/22 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*11*	*S1-*	*14 - 130*	*04/12/22 19:10*	*04/13/22 21:47*	*1*
Tetrachloro-m-xylene	*57*	*p*	*40 - 130*	*04/12/22 19:10*	*04/13/22 21:47*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/07/22 17:33	04/08/22 17:15	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/08/22 07:51	04/08/22 15:01	1

Client Sample ID: OW-16A

Date Collected: 04/05/22 13:53
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.75	ug/L			04/19/22 21:45	5
1,2,4-Trichlorobenzene	**550**		5.0	2.7	ug/L			04/19/22 21:45	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/19/22 21:45*	*5*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*04/19/22 21:45*	*5*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*04/19/22 21:45*	*5*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*04/19/22 21:45*	*5*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.51	ug/L		04/08/22 18:05	04/13/22 21:53	1
1,4-Dichlorobenzene	<10		10	0.52	ug/L		04/08/22 18:05	04/13/22 21:53	1
4-Nitrophenol	<25		25	1.8	ug/L		04/08/22 18:05	04/13/22 21:53	1
o,o',o''-Triethylphosphorothioate	<10		10	0.96	ug/L		04/08/22 18:05	04/13/22 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*32 - 113*	*04/08/22 18:05*	*04/13/22 21:53*	*1*
2-Fluorophenol	*47*		*26 - 109*	*04/08/22 18:05*	*04/13/22 21:53*	*1*
Nitrobenzene-d5	*63*		*32 - 118*	*04/08/22 18:05*	*04/13/22 21:53*	*1*
Phenol-d5	*49*		*27 - 110*	*04/08/22 18:05*	*04/13/22 21:53*	*1*
Terphenyl-d14	*61*		*10 - 126*	*04/08/22 18:05*	*04/13/22 21:53*	*1*
2,4,6-Tribromophenol	*73*		*39 - 124*	*04/08/22 18:05*	*04/13/22 21:53*	*1*

Client Sample ID: OW-16A

Lab Sample ID: 680-213610-5

Date Collected: 04/05/22 13:53

Matrix: Water

Date Received: 04/07/22 10:13

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 22:03	1
PCB-1221	**56**		1.8	1.8	ug/L		04/12/22 19:10	04/14/22 23:28	20
PCB-1232	<1.8		1.8	1.8	ug/L		04/12/22 19:10	04/14/22 23:28	20
PCB-1242	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 22:03	1
PCB-1248	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 22:03	1
PCB-1254	**13**		1.8	1.8	ug/L		04/12/22 19:10	04/14/22 23:28	20
PCB-1260	<0.50		0.50	0.060	ug/L		04/12/22 19:10	04/13/22 22:03	1
PCB-1268	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*53*		*14 - 130*	*04/12/22 19:10*	*04/13/22 22:03*	*1*
Tetrachloro-m-xylene	*265*	*p S1+*	*40 - 130*	*04/12/22 19:10*	*04/13/22 22:03*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfotepp	<1.5		1.5	0.16	ug/L		04/11/22 15:14	04/15/22 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*104*		*60 - 154*	*04/11/22 15:14*	*04/15/22 01:12*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	**14**		1.0	0.56	ug/L		04/11/22 15:14	04/15/22 19:40	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*76*	*D*	*60 - 154*	*04/11/22 15:14*	*04/15/22 19:40*	*4*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	**0.042**		0.010	0.0014	mg/L		04/07/22 17:33	04/08/22 17:18	1
Manganese	**0.87**		0.010	0.0013	mg/L		04/07/22 17:33	04/08/22 17:18	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00080		0.00080	0.00080	mg/L		04/08/22 07:51	04/08/22 15:49	10

Client Sample ID: OW-16AF

Lab Sample ID: 680-213610-6

Date Collected: 04/05/22 13:53

Matrix: Water

Date Received: 04/07/22 10:13

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.092	ug/L		04/12/22 19:10	04/13/22 22:19	1
PCB-1221, Dissolved	<0.50		0.50	0.092	ug/L		04/12/22 19:10	04/13/22 22:19	1
PCB-1232, Dissolved	<0.50		0.50	0.092	ug/L		04/12/22 19:10	04/13/22 22:19	1
PCB-1242, Dissolved	<0.50		0.50	0.092	ug/L		04/12/22 19:10	04/13/22 22:19	1
PCB-1248, Dissolved	<0.50		0.50	0.092	ug/L		04/12/22 19:10	04/13/22 22:19	1
PCB-1254, Dissolved	<0.50		0.50	0.092	ug/L		04/12/22 19:10	04/13/22 22:19	1
PCB-1260, Dissolved	<0.50		0.50	0.061	ug/L		04/12/22 19:10	04/13/22 22:19	1
PCB-1268, Dissolved	<0.50		0.50	0.092	ug/L		04/12/22 19:10	04/13/22 22:19	1

Client Sample ID: OW-16AF

Lab Sample ID: 680-213610-6

Date Collected: 04/05/22 13:53
Matrix: Water
Date Received: 04/07/22 10:13

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*31*		*14 - 130*	*04/12/22 19:10*	*04/13/22 22:19*	*1*
Tetrachloro-m-xylene	*67*	*p*	*40 - 130*	*04/12/22 19:10*	*04/13/22 22:19*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	**0.042**		0.010	0.0014	mg/L		04/07/22 17:33	04/08/22 17:21	1
Manganese, Dissolved	**0.86**		0.010	0.0013	mg/L		04/07/22 17:33	04/08/22 17:21	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/08/22 07:51	04/08/22 15:06	1

Client Sample ID: MW-20AF

Lab Sample ID: 680-213610-7

Date Collected: 04/05/22 13:47
Matrix: Water
Date Received: 04/07/22 10:13

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.087	ug/L		04/12/22 19:10	04/13/22 22:35	1
PCB-1221, Dissolved	<0.50		0.50	0.087	ug/L		04/12/22 19:10	04/13/22 22:35	1
PCB-1232, Dissolved	<0.50		0.50	0.087	ug/L		04/12/22 19:10	04/13/22 22:35	1
PCB-1242, Dissolved	<0.50		0.50	0.087	ug/L		04/12/22 19:10	04/13/22 22:35	1
PCB-1248, Dissolved	<0.50		0.50	0.087	ug/L		04/12/22 19:10	04/13/22 22:35	1
PCB-1254, Dissolved	<0.50		0.50	0.087	ug/L		04/12/22 19:10	04/13/22 22:35	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		04/12/22 19:10	04/13/22 22:35	1
PCB-1268, Dissolved	<0.50		0.50	0.087	ug/L		04/12/22 19:10	04/13/22 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*16*		*14 - 130*	*04/12/22 19:10*	*04/13/22 22:35*	*1*
Tetrachloro-m-xylene	*78*		*40 - 130*	*04/12/22 19:10*	*04/13/22 22:35*	*1*

Client Sample ID: Field Duplicate 1

Lab Sample ID: 680-213610-8

Date Collected: 04/05/22 00:00
Matrix: Water
Date Received: 04/07/22 10:13

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/18/22 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/18/22 16:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*04/18/22 16:32*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*04/18/22 16:32*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*04/18/22 16:32*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**3.7**		1.0	1.0	ug/L		04/08/22 18:05	04/15/22 22:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.55	ug/L		04/08/22 18:05	04/13/22 22:18	1

Client Sample ID: Field Duplicate 1

Lab Sample ID: 680-213610-8
Matrix: Water
Date Collected: 04/05/22 00:00
Date Received: 04/07/22 10:13

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<10		10	0.56	ug/L		04/08/22 18:05	04/13/22 22:18	1
4-Nitrophenol	<25		25	2.0	ug/L		04/08/22 18:05	04/13/22 22:18	1
o,o',o"-Triethylphosphorothioate	34		10	1.0	ug/L		04/08/22 18:05	04/13/22 22:18	1
Pentachlorophenol	<50		50	2.1	ug/L		04/08/22 18:05	04/13/22 22:18	1
2,4,6-Trichlorophenol	<10		10	0.88	ug/L		04/08/22 18:05	04/13/22 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*44*		*32 - 113*	*04/08/22 18:05*	*04/13/22 22:18*	*1*
2-Fluorophenol	*36*		*26 - 109*	*04/08/22 18:05*	*04/13/22 22:18*	*1*
Nitrobenzene-d5	*45*		*32 - 118*	*04/08/22 18:05*	*04/13/22 22:18*	*1*
Phenol-d5	*36*		*27 - 110*	*04/08/22 18:05*	*04/13/22 22:18*	*1*
Terphenyl-d14	*48*		*10 - 126*	*04/08/22 18:05*	*04/13/22 22:18*	*1*
2,4,6-Tribromophenol	*65*		*39 - 124*	*04/08/22 18:05*	*04/13/22 22:18*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		04/12/22 19:10	04/13/22 22:51	1
PCB-1221	<0.50		0.50	0.086	ug/L		04/12/22 19:10	04/13/22 22:51	1
PCB-1232	<0.50		0.50	0.086	ug/L		04/12/22 19:10	04/13/22 22:51	1
PCB-1242	<0.50		0.50	0.086	ug/L		04/12/22 19:10	04/13/22 22:51	1
PCB-1248	<0.50		0.50	0.086	ug/L		04/12/22 19:10	04/13/22 22:51	1
PCB-1254	<0.50		0.50	0.086	ug/L		04/12/22 19:10	04/13/22 22:51	1
PCB-1260	<0.50		0.50	0.058	ug/L		04/12/22 19:10	04/13/22 22:51	1
PCB-1268	<0.50		0.50	0.086	ug/L		04/12/22 19:10	04/13/22 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*11*	*S1- p*	*14 - 130*	*04/12/22 19:10*	*04/13/22 22:51*	*1*
Tetrachloro-m-xylene	*46*		*40 - 130*	*04/12/22 19:10*	*04/13/22 22:51*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/11/22 15:14	04/15/22 03:09	1
Sulfotepp	<1.5		1.5	0.16	ug/L		04/11/22 15:14	04/15/22 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*97*		*60 - 154*	*04/11/22 15:14*	*04/15/22 03:09*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/07/22 17:33	04/08/22 17:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/08/22 07:51	04/08/22 15:08	1

Client Sample ID: Tripblank 20220406

Lab Sample ID: 680-213610-9
Matrix: Water
Date Collected: 04/06/22 06:47
Date Received: 04/07/22 10:13

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/18/22 14:19	1

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213610-1

Client Sample ID: Tripblank 20220406
Date Collected: 04/06/22 06:47
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<5.0	*+	5.0	0.53	ug/L			04/18/22 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*04/18/22 14:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 124*		*04/18/22 14:19*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*04/18/22 14:19*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/18/22 14:19*	*1*

Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213610-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	DBFM	BFB
Lab Sample ID	Client Sample ID	(70-130)	(60-124)	(70-130)	(70-130)
680-213610-1	MW-20A	100	84	104	94
680-213610-1 MS	MW-20A MS	97	81	91	95
680-213610-1 MSD	MW-20A MSD	101	83	97	100
680-213610-3	OW-15	99	89	111	104
680-213610-5	OW-16A	100	102	105	109
680-213610-8	Field Duplicate 1	94	80	101	94
680-213610-9	Tripblank 20220406	103	113	107	92
LCS 680-716233/6	Lab Control Sample	108	119	109	96
LCS 680-716241/4	Lab Control Sample	95	93	106	93
LCS 680-716454/4	Lab Control Sample	110	111	113	104
LCSD 680-716233/7	Lab Control Sample Dup	107	120	109	97
LCSD 680-716241/5	Lab Control Sample Dup	96	91	106	95
LCSD 680-716454/5	Lab Control Sample Dup	108	109	111	105
MB 680-716233/11	Method Blank	103	113	107	92
MB 680-716241/9	Method Blank	100	83	101	94
MB 680-716454/9	Method Blank	102	107	107	116

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(32-113)	(26-109)	(32-118)	(27-110)	(10-126)	(39-124)
680-213610-1	MW-20A	57	42	56	44	31	73
680-213610-1 MS	MW-20A MS	59	47	65	49	53	73
680-213610-1 MSD	MW-20A MSD	62	51	65	52	45	79
680-213610-2	MW-13A	43	36	42	34	60	51
680-213610-3	OW-15	60	45	54	47	69	72
680-213610-5	OW-16A	59	47	63	49	61	73
680-213610-8	Field Duplicate 1	44	36	45	36	48	65
LCS 680-714926/11-A	Lab Control Sample	68	48	66	49	79	84
LCS 680-714926/8-A	Lab Control Sample	57	53	60	54	80	78
LCSD 680-714926/12-A	Lab Control Sample Dup	58	45	56	47	72	77
MB 680-714926/7-A	Method Blank	49	41	51	39	72	64

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Surrogate Summary

Client: GSI Environmental, Inc
Job ID: 680-213610-1
Project/Site: Anniston RCRA April 2022

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (14-130)	TCX2 (40-130)
680-213610-1	MW-20A	13 S1- p	43
680-213610-1 MS	MW-20A MS	18 p	65
680-213610-1 MSD	MW-20A MSD	11 S1- p	55
680-213610-3	OW-15	55	71 p
680-213610-5	OW-16A	53	265 p S1+
680-213610-8	Field Duplicate 1	11 S1- p	46
LCS 680-715429/13-A	Lab Control Sample	73	54
MB 680-715429/12-A	Method Blank	71	59

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (14-130)	TCX1 (40-130)
680-213610-2	MW-13A	70	45

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (14-130)	TCX2 (40-130)
680-213610-4	OW-15F	11 S1-	57 p
680-213610-6	OW-16AF	31	67 p

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (14-130)	TCX1 (40-130)
680-213610-7	MW-20AF	16	78

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213610-1

TCX = Tetrachloro-m-xylene

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	TPP1 (60-154)								
680-213610-1	MW-20A	89								
680-213610-1 MS	MW-20A MS	87								
680-213610-1 MSD	MW-20A MSD	82								
680-213610-2	MW-13A	84								
680-213610-3	OW-15	89								
680-213610-5	OW-16A	104								
680-213610-5 - DL	OW-16A	76 D								
680-213610-8	Field Duplicate 1	97								
LCS 280-571393/2-A	Lab Control Sample	89								
MB 280-571393/1-A	Method Blank	78								

Surrogate Legend

TPP = Triphenylphosphate

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-716233/11
Matrix: Water
Analysis Batch: 716233

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/18/22 13:55	1
1,2,4-Trichlorobenzene	<5.0		5.0	0.53	ug/L			04/18/22 13:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*04/18/22 13:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 124*		*04/18/22 13:55*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*04/18/22 13:55*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/18/22 13:55*	*1*

Lab Sample ID: LCS 680-716233/6
Matrix: Water
Analysis Batch: 716233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorobenzene			50.0	51.4		ug/L		103	70 - 130		
1,2,4-Trichlorobenzene			50.0	70.4	*+	ug/L		141	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*119*		*60 - 124*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 680-716233/7
Matrix: Water
Analysis Batch: 716233

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene			50.0	49.9		ug/L		100	70 - 130	3	30
1,2,4-Trichlorobenzene			50.0	69.1	*+	ug/L		138	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*120*		*60 - 124*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 680-716241/9
Matrix: Water
Analysis Batch: 716241

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/18/22 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/18/22 13:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*04/18/22 13:46*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-716241/9
Matrix: Water
Analysis Batch: 716241

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		70 - 130		04/18/22 13:46	1
4-Bromofluorobenzene (Surr)	94		70 - 130		04/18/22 13:46	1

Lab Sample ID: LCS 680-716241/4
Matrix: Water
Analysis Batch: 716241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorobenzene			50.0	55.5		ug/L		111	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		60 - 124
Dibromofluoromethane (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 680-716241/5
Matrix: Water
Analysis Batch: 716241

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene			50.0	55.7		ug/L		111	70 - 130	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	91		60 - 124
Dibromofluoromethane (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 680-213610-1 MS
Matrix: Water
Analysis Batch: 716241

Client Sample ID: MW-20A MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorobenzene	<1.0		50.0	55.9		ug/L		112	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	81		60 - 124
Dibromofluoromethane (Surr)	91		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 680-213610-1 MSD
Matrix: Water
Analysis Batch: 716241

Client Sample ID: MW-20A MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene	<1.0		50.0	59.2		ug/L		118	70 - 130	6	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	83		60 - 124
Dibromofluoromethane (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 680-716454/9
Matrix: Water
Analysis Batch: 716454

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/19/22 14:25	1
1,2,4-Trichlorobenzene	<5.0		5.0	0.53	ug/L			04/19/22 14:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		04/19/22 14:25	1
1,2-Dichloroethane-d4 (Surr)	107		60 - 124		04/19/22 14:25	1
Dibromofluoromethane (Surr)	107		70 - 130		04/19/22 14:25	1
4-Bromofluorobenzene (Surr)	116		70 - 130		04/19/22 14:25	1

Lab Sample ID: LCS 680-716454/4
Matrix: Water
Analysis Batch: 716454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorobenzene			50.0	52.6		ug/L		105	70 - 130		
1,2,4-Trichlorobenzene			50.0	54.3		ug/L		109	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	110		70 - 130
1,2-Dichloroethane-d4 (Surr)	111		60 - 124
Dibromofluoromethane (Surr)	113		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 680-716454/5
Matrix: Water
Analysis Batch: 716454

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene			50.0	52.1		ug/L		104	70 - 130	1	30
1,2,4-Trichlorobenzene			50.0	55.4		ug/L		111	70 - 130	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	108		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		60 - 124
Dibromofluoromethane (Surr)	111		70 - 130
4-Bromofluorobenzene (Surr)	105		70 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-714926/7-A
Matrix: Water
Analysis Batch: 715438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 714926

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.53	ug/L		04/08/22 18:05	04/12/22 17:41	1
1,4-Dichlorobenzene	<10		10	0.54	ug/L		04/08/22 18:05	04/12/22 17:41	1
4-Nitrophenol	<25		25	1.9	ug/L		04/08/22 18:05	04/12/22 17:41	1
o,o',o''-Triethylphosphorothioate	<10		10	1.0	ug/L		04/08/22 18:05	04/12/22 17:41	1
Pentachlorophenol	<50		50	2.0	ug/L		04/08/22 18:05	04/12/22 17:41	1
2,4,6-Trichlorophenol	<10		10	0.85	ug/L		04/08/22 18:05	04/12/22 17:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*49*		*32 - 113*	*04/08/22 18:05*	*04/12/22 17:41*	*1*
2-Fluorophenol	*41*		*26 - 109*	*04/08/22 18:05*	*04/12/22 17:41*	*1*
Nitrobenzene-d5	*51*		*32 - 118*	*04/08/22 18:05*	*04/12/22 17:41*	*1*
Phenol-d5	*39*		*27 - 110*	*04/08/22 18:05*	*04/12/22 17:41*	*1*
Terphenyl-d14	*72*		*10 - 126*	*04/08/22 18:05*	*04/12/22 17:41*	*1*
2,4,6-Tribromophenol	*64*		*39 - 124*	*04/08/22 18:05*	*04/12/22 17:41*	*1*

Lab Sample ID: LCS 680-714926/11-A
Matrix: Water
Analysis Batch: 715438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 714926

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o,o',o''-Triethylphosphorothioate	100	60.3		ug/L		60	23 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*68*		*32 - 113*
2-Fluorophenol	*48*		*26 - 109*
Nitrobenzene-d5	*66*		*32 - 118*
Phenol-d5	*49*		*27 - 110*
Terphenyl-d14	*79*		*10 - 126*
2,4,6-Tribromophenol	*84*		*39 - 124*

Lab Sample ID: LCS 680-714926/8-A
Matrix: Water
Analysis Batch: 715438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 714926

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	100	42.9		ug/L		43	31 - 130
1,4-Dichlorobenzene	100	42.1		ug/L		42	31 - 130
4-Nitrophenol	200	155		ug/L		77	44 - 130
Pentachlorophenol	200	169		ug/L		84	33 - 130
2,4,6-Trichlorophenol	100	66.8		ug/L		67	47 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*57*		*32 - 113*
2-Fluorophenol	*53*		*26 - 109*
Nitrobenzene-d5	*60*		*32 - 118*
Phenol-d5	*54*		*27 - 110*
Terphenyl-d14	*80*		*10 - 126*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-714926/8-A
Matrix: Water
Analysis Batch: 715438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 714926

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*78*		*39 - 124*

Lab Sample ID: LCSD 680-714926/12-A
Matrix: Water
Analysis Batch: 715438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 714926

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o,o',o''-Triethylphosphorothioate			100	55.1		ug/L		55	23 - 130	9	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*58*		*32 - 113*
2-Fluorophenol	*45*		*26 - 109*
Nitrobenzene-d5	*56*		*32 - 118*
Phenol-d5	*47*		*27 - 110*
Terphenyl-d14	*72*		*10 - 126*
2,4,6-Tribromophenol	*77*		*39 - 124*

Lab Sample ID: 680-213610-1 MS
Matrix: Water
Analysis Batch: 715438

Client Sample ID: MW-20A MS
Prep Type: Total/NA
Prep Batch: 714926

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	<10		97.7	48.6		ug/L		47	31 - 130
1,4-Dichlorobenzene	<10		97.7	48.3		ug/L		48	31 - 130
4-Nitrophenol	<25		195	156		ug/L		80	44 - 130
Pentachlorophenol	<50		195	171		ug/L		86	33 - 130
2,4,6-Trichlorophenol	<10		97.7	65.2		ug/L		65	47 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*59*		*32 - 113*
2-Fluorophenol	*47*		*26 - 109*
Nitrobenzene-d5	*65*		*32 - 118*
Phenol-d5	*49*		*27 - 110*
Terphenyl-d14	*53*		*10 - 126*
2,4,6-Tribromophenol	*73*		*39 - 124*

Lab Sample ID: 680-213610-1 MSD
Matrix: Water
Analysis Batch: 715438

Client Sample ID: MW-20A MSD
Prep Type: Total/NA
Prep Batch: 714926

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene	<10		95.7	46.7		ug/L		46	31 - 130	4	50
1,4-Dichlorobenzene	<10		95.7	44.0		ug/L		45	31 - 130	9	50
4-Nitrophenol	<25		191	150		ug/L		78	44 - 130	4	50
Pentachlorophenol	<50		191	166		ug/L		85	33 - 130	3	50
2,4,6-Trichlorophenol	<10		95.7	67.6		ug/L		69	47 - 130	4	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-213610-1 MSD
Matrix: Water
Analysis Batch: 715438

Client Sample ID: MW-20A MSD
Prep Type: Total/NA
Prep Batch: 714926

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*32 - 113*
2-Fluorophenol	*51*		*26 - 109*
Nitrobenzene-d5	*65*		*32 - 118*
Phenol-d5	*52*		*27 - 110*
Terphenyl-d14	*45*		*10 - 126*
2,4,6-Tribromophenol	*79*		*39 - 124*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 680-714926/7-A
Matrix: Water
Analysis Batch: 716076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 714926

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<1.0		1.0	1.0	ug/L		04/08/22 18:05	04/15/22 21:59	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-715429/12-A
Matrix: Water
Analysis Batch: 715675

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715429

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1221	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1232	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1242	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1248	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1254	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1260	<0.50		0.50	0.060	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1268	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*14 - 130*	*04/12/22 19:10*	*04/13/22 19:40*	*1*
Tetrachloro-m-xylene	*59*		*40 - 130*	*04/12/22 19:10*	*04/13/22 19:40*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-715429/13-A
Matrix: Water
Analysis Batch: 715675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715429

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			3.00	2.04		ug/L		68	44 - 130		
PCB-1016, Dissolved			3.00	2.04		ug/L		68	44 - 130		
PCB-1260			3.00	2.49		ug/L		83	35 - 130		
PCB-1260, Dissolved			3.00	2.49		ug/L		83	35 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*73*		*14 - 130*
Tetrachloro-m-xylene	*54*		*40 - 130*

Lab Sample ID: 680-213610-1 MS
Matrix: Water
Analysis Batch: 715675

Client Sample ID: MW-20A MS
Prep Type: Total/NA
Prep Batch: 715429

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	<0.50	F1	2.92	2.92		ug/L		100	44 - 130		
PCB-1260	<0.50	F1	2.92	3.30	p	ug/L		113	35 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*18*	*p*	*14 - 130*
Tetrachloro-m-xylene	*65*		*40 - 130*

Lab Sample ID: 680-213610-1 MSD
Matrix: Water
Analysis Batch: 715675

Client Sample ID: MW-20A MSD
Prep Type: Total/NA
Prep Batch: 715429

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.50	F1	2.88	<0.50	F1	ug/L		0	44 - 130	NC	50
PCB-1260	<0.50	F1	2.88	3.58	p	ug/L		124	35 - 130	8	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*11*	*S1- p*	*14 - 130*
Tetrachloro-m-xylene	*55*		*40 - 130*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-571393/1-A
Matrix: Water
Analysis Batch: 571790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/11/22 15:14	04/13/22 22:55	1
Sulfotepp	<1.5		1.5	0.17	ug/L		04/11/22 15:14	04/13/22 22:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*78*		*60 - 154*	*04/11/22 15:14*	*04/13/22 22:55*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: LCS 280-571393/2-A
Matrix: Water
Analysis Batch: 571790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571393

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Parathion			4.00	3.36		ug/L		84	55 - 107		
Sulfotepp			4.00	3.40		ug/L		85	53 - 110		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*89*		*60 - 154*

Lab Sample ID: 680-213610-1 MS
Matrix: Water
Analysis Batch: 571902

Client Sample ID: MW-20A MS
Prep Type: Total/NA
Prep Batch: 571393

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Parathion	<1.0		4.08	3.43		ug/L		84	55 - 107		
Sulfotepp	<1.5		4.08	3.58		ug/L		88	53 - 110		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate	*87*		*60 - 154*

Lab Sample ID: 680-213610-1 MSD
Matrix: Water
Analysis Batch: 571902

Client Sample ID: MW-20A MSD
Prep Type: Total/NA
Prep Batch: 571393

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Parathion	<1.0		3.87	3.01		ug/L		78	55 - 107	13	20
Sulfotepp	<1.5		3.87	3.65		ug/L		94	53 - 110	2	27

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate	*82*		*60 - 154*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-714788/1-A
Matrix: Water
Analysis Batch: 715192

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 714788

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/07/22 17:33	04/08/22 16:31	1
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/07/22 17:33	04/08/22 16:31	1
Manganese	<0.010		0.010	0.0013	mg/L		04/07/22 17:33	04/08/22 16:31	1
Manganese, Dissolved	<0.010		0.010	0.0013	mg/L		04/07/22 17:33	04/08/22 16:31	1

Lab Sample ID: LCS 680-714788/2-A
Matrix: Water
Analysis Batch: 715192

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 714788

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cobalt			0.0500	0.0513		mg/L		103	80 - 120		
Cobalt, Dissolved			0.0500	0.0513		mg/L		103	80 - 120		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 680-714788/2-A
Matrix: Water
Analysis Batch: 715192

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 714788

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Manganese			0.400	0.399		mg/L		100	80 - 120		
Manganese, Dissolved			0.400	0.399		mg/L		100	80 - 120		

Lab Sample ID: 680-213610-1 MS
Matrix: Water
Analysis Batch: 715192

Client Sample ID: MW-20A MS
Prep Type: Total Recoverable
Prep Batch: 714788

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cobalt	<0.010		0.0500	0.0625		mg/L		106	75 - 125		

Lab Sample ID: 680-213610-1 MSD
Matrix: Water
Analysis Batch: 715192

Client Sample ID: MW-20A MSD
Prep Type: Total Recoverable
Prep Batch: 714788

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cobalt	<0.010		0.0500	0.0607		mg/L		103	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-714813/1-A
Matrix: Water
Analysis Batch: 714957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 714813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/08/22 07:51	04/08/22 14:40	1
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/08/22 07:51	04/08/22 14:40	1

Lab Sample ID: LCS 680-714813/2-A
Matrix: Water
Analysis Batch: 714957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 714813

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00250	0.00241		mg/L		96	80 - 120		
Mercury, Dissolved			0.00250	0.00241		mg/L		96	80 - 120		

Lab Sample ID: 680-213610-1 MS
Matrix: Water
Analysis Batch: 714957

Client Sample ID: MW-20A MS
Prep Type: Total/NA
Prep Batch: 714813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	<0.00020	F1	0.00100	0.000755	F1	mg/L		57	80 - 120		

Lab Sample ID: 680-213610-1 MSD
Matrix: Water
Analysis Batch: 714957

Client Sample ID: MW-20A MSD
Prep Type: Total/NA
Prep Batch: 714813

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020	F1	0.00100	0.000796	F1	mg/L		61	80 - 120	5	20

GC/MS VOA

Analysis Batch: 716233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-9	Tripblank 20220406	Total/NA	Water	8260B	
MB 680-716233/11	Method Blank	Total/NA	Water	8260B	
LCS 680-716233/6	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-716233/7	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 716241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-1	MW-20A	Total/NA	Water	8260B	
680-213610-3	OW-15	Total/NA	Water	8260B	
680-213610-8	Field Duplicate 1	Total/NA	Water	8260B	
MB 680-716241/9	Method Blank	Total/NA	Water	8260B	
LCS 680-716241/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-716241/5	Lab Control Sample Dup	Total/NA	Water	8260B	
680-213610-1 MS	MW-20A MS	Total/NA	Water	8260B	
680-213610-1 MSD	MW-20A MSD	Total/NA	Water	8260B	

Analysis Batch: 716454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-5	OW-16A	Total/NA	Water	8260B	
MB 680-716454/9	Method Blank	Total/NA	Water	8260B	
LCS 680-716454/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-716454/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 714926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-1	MW-20A	Total/NA	Water	3520C	
680-213610-2	MW-13A	Total/NA	Water	3520C	
680-213610-3	OW-15	Total/NA	Water	3520C	
680-213610-5	OW-16A	Total/NA	Water	3520C	
680-213610-8	Field Duplicate 1	Total/NA	Water	3520C	
MB 680-714926/7-A	Method Blank	Total/NA	Water	3520C	
LCS 680-714926/11-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-714926/8-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-714926/12-A	Lab Control Sample Dup	Total/NA	Water	3520C	
680-213610-1 MS	MW-20A MS	Total/NA	Water	3520C	
680-213610-1 MSD	MW-20A MSD	Total/NA	Water	3520C	

Analysis Batch: 715438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-1	MW-20A	Total/NA	Water	8270D	714926
MB 680-714926/7-A	Method Blank	Total/NA	Water	8270D	714926
LCS 680-714926/11-A	Lab Control Sample	Total/NA	Water	8270D	714926
LCS 680-714926/8-A	Lab Control Sample	Total/NA	Water	8270D	714926
LCSD 680-714926/12-A	Lab Control Sample Dup	Total/NA	Water	8270D	714926
680-213610-1 MS	MW-20A MS	Total/NA	Water	8270D	714926
680-213610-1 MSD	MW-20A MSD	Total/NA	Water	8270D	714926

GC/MS Semi VOA

Analysis Batch: 715629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-2	MW-13A	Total/NA	Water	8270D	714926
680-213610-3	OW-15	Total/NA	Water	8270D	714926
680-213610-5	OW-16A	Total/NA	Water	8270D	714926
680-213610-8	Field Duplicate 1	Total/NA	Water	8270D	714926

Analysis Batch: 716076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-1	MW-20A	Total/NA	Water	8270D SIM	714926
680-213610-8	Field Duplicate 1	Total/NA	Water	8270D SIM	714926
MB 680-714926/7-A	Method Blank	Total/NA	Water	8270D SIM	714926

GC Semi VOA

Prep Batch: 571393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-1	MW-20A	Total/NA	Water	3510C	
680-213610-2	MW-13A	Total/NA	Water	3510C	
680-213610-3	OW-15	Total/NA	Water	3510C	
680-213610-5	OW-16A	Total/NA	Water	3510C	
680-213610-5 - DL	OW-16A	Total/NA	Water	3510C	
680-213610-8	Field Duplicate 1	Total/NA	Water	3510C	
MB 280-571393/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-571393/2-A	Lab Control Sample	Total/NA	Water	3510C	
680-213610-1 MS	MW-20A MS	Total/NA	Water	3510C	
680-213610-1 MSD	MW-20A MSD	Total/NA	Water	3510C	

Analysis Batch: 571790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-571393/1-A	Method Blank	Total/NA	Water	8141B	571393
LCS 280-571393/2-A	Lab Control Sample	Total/NA	Water	8141B	571393

Analysis Batch: 571902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-1	MW-20A	Total/NA	Water	8141B	571393
680-213610-2	MW-13A	Total/NA	Water	8141B	571393
680-213610-3	OW-15	Total/NA	Water	8141B	571393
680-213610-5	OW-16A	Total/NA	Water	8141B	571393
680-213610-8	Field Duplicate 1	Total/NA	Water	8141B	571393
680-213610-1 MS	MW-20A MS	Total/NA	Water	8141B	571393
680-213610-1 MSD	MW-20A MSD	Total/NA	Water	8141B	571393

Analysis Batch: 572045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-5 - DL	OW-16A	Total/NA	Water	8141B	571393

Prep Batch: 715429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-1	MW-20A	Total/NA	Water	3520C	
680-213610-2	MW-13A	Total/NA	Water	3520C	
680-213610-3	OW-15	Total/NA	Water	3520C	
680-213610-4	OW-15F	Dissolved	Water	3520C	

GC Semi VOA (Continued)

Prep Batch: 715429 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-5	OW-16A	Total/NA	Water	3520C	
680-213610-6	OW-16AF	Dissolved	Water	3520C	
680-213610-7	MW-20AF	Dissolved	Water	3520C	
680-213610-8	Field Duplicate 1	Total/NA	Water	3520C	
MB 680-715429/12-A	Method Blank	Total/NA	Water	3520C	
LCS 680-715429/13-A	Lab Control Sample	Total/NA	Water	3520C	
680-213610-1 MS	MW-20A MS	Total/NA	Water	3520C	
680-213610-1 MSD	MW-20A MSD	Total/NA	Water	3520C	

Analysis Batch: 715675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-1	MW-20A	Total/NA	Water	8081B/8082A	715429
680-213610-2	MW-13A	Total/NA	Water	8081B/8082A	715429
680-213610-3	OW-15	Total/NA	Water	8081B/8082A	715429
680-213610-4	OW-15F	Dissolved	Water	8081B/8082A	715429
680-213610-5	OW-16A	Total/NA	Water	8081B/8082A	715429
680-213610-6	OW-16AF	Dissolved	Water	8081B/8082A	715429
680-213610-7	MW-20AF	Dissolved	Water	8081B/8082A	715429
680-213610-8	Field Duplicate 1	Total/NA	Water	8081B/8082A	715429
MB 680-715429/12-A	Method Blank	Total/NA	Water	8081B/8082A	715429
LCS 680-715429/13-A	Lab Control Sample	Total/NA	Water	8081B/8082A	715429
680-213610-1 MS	MW-20A MS	Total/NA	Water	8081B/8082A	715429
680-213610-1 MSD	MW-20A MSD	Total/NA	Water	8081B/8082A	715429

Analysis Batch: 715820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-5	OW-16A	Total/NA	Water	8081B/8082A	715429

Metals

Prep Batch: 714788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-1	MW-20A	Total Recoverable	Water	3005A	
680-213610-3	OW-15	Total Recoverable	Water	3005A	
680-213610-4	OW-15F	Dissolved	Water	3005A	
680-213610-5	OW-16A	Total Recoverable	Water	3005A	
680-213610-6	OW-16AF	Dissolved	Water	3005A	
680-213610-8	Field Duplicate 1	Total Recoverable	Water	3005A	
MB 680-714788/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-714788/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-213610-1 MS	MW-20A MS	Total Recoverable	Water	3005A	
680-213610-1 MSD	MW-20A MSD	Total Recoverable	Water	3005A	

Prep Batch: 714813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-1	MW-20A	Total/NA	Water	7470A	
680-213610-3	OW-15	Total/NA	Water	7470A	
680-213610-4	OW-15F	Dissolved	Water	7470A	
680-213610-5	OW-16A	Total/NA	Water	7470A	
680-213610-6	OW-16AF	Dissolved	Water	7470A	
680-213610-8	Field Duplicate 1	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 714813 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-714813/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-714813/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-213610-1 MS	MW-20A MS	Total/NA	Water	7470A	
680-213610-1 MSD	MW-20A MSD	Total/NA	Water	7470A	

Analysis Batch: 714957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-1	MW-20A	Total/NA	Water	7470A	714813
680-213610-3	OW-15	Total/NA	Water	7470A	714813
680-213610-4	OW-15F	Dissolved	Water	7470A	714813
680-213610-5	OW-16A	Total/NA	Water	7470A	714813
680-213610-6	OW-16AF	Dissolved	Water	7470A	714813
680-213610-8	Field Duplicate 1	Total/NA	Water	7470A	714813
MB 680-714813/1-A	Method Blank	Total/NA	Water	7470A	714813
LCS 680-714813/2-A	Lab Control Sample	Total/NA	Water	7470A	714813
680-213610-1 MS	MW-20A MS	Total/NA	Water	7470A	714813
680-213610-1 MSD	MW-20A MSD	Total/NA	Water	7470A	714813

Analysis Batch: 715192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213610-1	MW-20A	Total Recoverable	Water	6010C	714788
680-213610-3	OW-15	Total Recoverable	Water	6010C	714788
680-213610-4	OW-15F	Dissolved	Water	6010C	714788
680-213610-5	OW-16A	Total Recoverable	Water	6010C	714788
680-213610-6	OW-16AF	Dissolved	Water	6010C	714788
680-213610-8	Field Duplicate 1	Total Recoverable	Water	6010C	714788
MB 680-714788/1-A	Method Blank	Total Recoverable	Water	6010C	714788
LCS 680-714788/2-A	Lab Control Sample	Total Recoverable	Water	6010C	714788
680-213610-1 MS	MW-20A MS	Total Recoverable	Water	6010C	714788
680-213610-1 MSD	MW-20A MSD	Total Recoverable	Water	6010C	714788

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213610-1

Client Sample ID: MW-20A

Date Collected: 04/05/22 13:47
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	716241	04/18/22 15:54	Y1S	TAL SAV
	Instrument ID: CMSC									
Total/NA	Prep	3520C			1025.4 mL	1 mL	714926	04/08/22 18:05	IR	TAL SAV
Total/NA	Analysis	8270D		1			715438	04/12/22 20:31	DC	TAL SAV
	Instrument ID: CMSE									
Total/NA	Prep	3520C			1025.4 mL	1 mL	714926	04/08/22 18:05	IR	TAL SAV
Total/NA	Analysis	8270D SIM		1			716076	04/15/22 22:22	DC	TAL SAV
	Instrument ID: CMSAE									
Total/NA	Prep	3520C			1026.2 mL	5 mL	715429	04/12/22 19:10	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			715675	04/13/22 21:00	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			1029.2 mL	2 mL	571393	04/11/22 15:14	E	TAL DEN
Total/NA	Analysis	8141B		1			571902	04/14/22 21:57	MKW	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	714788	04/07/22 17:33	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			715192	04/08/22 16:44	BCB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	714813	04/08/22 07:51	JKL	TAL SAV
Total/NA	Analysis	7470A		1			714957	04/08/22 14:45	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: MW-13A

Date Collected: 04/05/22 16:56
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			973.7 mL	1 mL	714926	04/08/22 18:05	IR	TAL SAV
Total/NA	Analysis	8270D		1			715629	04/13/22 21:05	DC	TAL SAV
	Instrument ID: CMSE									
Total/NA	Prep	3520C			1020.7 mL	5 mL	715429	04/12/22 19:10	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			715675	04/13/22 21:15	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			990.3 mL	2 mL	571393	04/11/22 15:14	E	TAL DEN
Total/NA	Analysis	8141B		1			571902	04/14/22 23:55	MKW	TAL DEN
	Instrument ID: SGC_D2									

Client Sample ID: OW-15

Date Collected: 04/05/22 16:19
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	716241	04/18/22 16:13	Y1S	TAL SAV
	Instrument ID: CMSC									
Total/NA	Prep	3520C			1005.4 mL	1 mL	714926	04/08/22 18:05	IR	TAL SAV
Total/NA	Analysis	8270D		1			715629	04/13/22 21:29	DC	TAL SAV
	Instrument ID: CMSE									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213610-1

Client Sample ID: OW-15
Date Collected: 04/05/22 16:19
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1022.1 mL	5 mL	715429	04/12/22 19:10	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			715675	04/13/22 21:31	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			1046.5 mL	2 mL	571393	04/11/22 15:14	E	TAL DEN
Total/NA	Analysis	8141B		1			571902	04/15/22 00:33	MKW	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	714788	04/07/22 17:33	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			715192	04/08/22 17:06	BCB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	714813	04/08/22 07:51	JKL	TAL SAV
Total/NA	Analysis	7470A		1			714957	04/08/22 14:58	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: OW-15F
Date Collected: 04/05/22 16:19
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1013.1 mL	5 mL	715429	04/12/22 19:10	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			715675	04/13/22 21:47	JCK	TAL SAV
	Instrument ID: CSGK									
Dissolved	Prep	3005A			50 mL	50 mL	714788	04/07/22 17:33	JE	TAL SAV
Dissolved	Analysis	6010C		1			715192	04/08/22 17:15	BCB	TAL SAV
	Instrument ID: ICPH									
Dissolved	Prep	7470A			50 mL	50 mL	714813	04/08/22 07:51	JKL	TAL SAV
Dissolved	Analysis	7470A		1			714957	04/08/22 15:01	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: OW-16A
Date Collected: 04/05/22 13:53
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	716454	04/19/22 21:45	P1C	TAL SAV
	Instrument ID: CMSU									
Total/NA	Prep	3520C			1042.9 mL	1 mL	714926	04/08/22 18:05	IR	TAL SAV
Total/NA	Analysis	8270D		1			715629	04/13/22 21:53	DC	TAL SAV
	Instrument ID: CMSE									
Total/NA	Prep	3520C			1000.2 mL	5 mL	715429	04/12/22 19:10	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			715675	04/13/22 22:03	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3520C			1000.2 mL	5 mL	715429	04/12/22 19:10	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		20			715820	04/14/22 23:28	JCK	TAL SAV
	Instrument ID: CSGK									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213610-1

Client Sample ID: OW-16A
Date Collected: 04/05/22 13:53
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1026.5 mL	2 mL	571393	04/11/22 15:14	E	TAL DEN
Total/NA	Analysis	8141B		1			571902	04/15/22 01:12	MKW	TAL DEN
	Instrument ID: SGC_D2									
Total/NA	Prep	3510C	DL		1026.5 mL	2 mL	571393	04/11/22 15:14	E	TAL DEN
Total/NA	Analysis	8141B	DL	4			572045	04/15/22 19:40	MKW	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	714788	04/07/22 17:33	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			715192	04/08/22 17:18	BCB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	714813	04/08/22 07:51	JKL	TAL SAV
Total/NA	Analysis	7470A		10			714957	04/08/22 15:49	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: OW-16AF
Date Collected: 04/05/22 13:53
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			980.7 mL	5 mL	715429	04/12/22 19:10	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			715675	04/13/22 22:19	JCK	TAL SAV
	Instrument ID: CSGK									
Dissolved	Prep	3005A			50 mL	50 mL	714788	04/07/22 17:33	JE	TAL SAV
Dissolved	Analysis	6010C		1			715192	04/08/22 17:21	BCB	TAL SAV
	Instrument ID: ICPH									
Dissolved	Prep	7470A			50 mL	50 mL	714813	04/08/22 07:51	JKL	TAL SAV
Dissolved	Analysis	7470A		1			714957	04/08/22 15:06	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: MW-20AF
Date Collected: 04/05/22 13:47
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1035 mL	5 mL	715429	04/12/22 19:10	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1	1 mL	1.0 mL	715675	04/13/22 22:35	JCK	TAL SAV
	Instrument ID: CSGK									

Client Sample ID: Field Duplicate 1
Date Collected: 04/05/22 00:00
Date Received: 04/07/22 10:13

Lab Sample ID: 680-213610-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	716241	04/18/22 16:32	Y1S	TAL SAV
	Instrument ID: CMSC									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213610-1

Client Sample ID: Field Duplicate 1

Lab Sample ID: 680-213610-8

Date Collected: 04/05/22 00:00

Matrix: Water

Date Received: 04/07/22 10:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			971.4 mL	1 mL	714926	04/08/22 18:05	IR	TAL SAV
Total/NA	Analysis	8270D		1			715629	04/13/22 22:18	DC	TAL SAV
	Instrument ID: CMSE									
Total/NA	Prep	3520C			971.4 mL	1 mL	714926	04/08/22 18:05	IR	TAL SAV
Total/NA	Analysis	8270D SIM		1			716076	04/15/22 22:44	DC	TAL SAV
	Instrument ID: CMSAE									
Total/NA	Prep	3520C			1041.8 mL	5 mL	715429	04/12/22 19:10	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			715675	04/13/22 22:51	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			1053 mL	2 mL	571393	04/11/22 15:14	E	TAL DEN
Total/NA	Analysis	8141B		1			571902	04/15/22 03:09	MKW	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	714788	04/07/22 17:33	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			715192	04/08/22 17:23	BCB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	714813	04/08/22 07:51	JKL	TAL SAV
Total/NA	Analysis	7470A		1			714957	04/08/22 15:08	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: Tripblank 20220406

Lab Sample ID: 680-213610-9

Date Collected: 04/06/22 06:47

Matrix: Water

Date Received: 04/07/22 10:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	716233	04/18/22 14:19	P1C	TAL SAV
	Instrument ID: CMSO2									

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Job ID: 680-213610-1
Project/Site: Anniston RCRA April 2022

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-22

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-09-23
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	04-17-22
Oklahoma	NELAP	8614	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-17-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213610-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	TAL DEN
6010C	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
7470A	Preparation, Mercury	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

680-213610 Chain of Custody

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: JR, EGK, AJV	Lab PM: Weinberg, Amy	Carrier Tracking No(s):	COC No: 680-134396-49183.7
Client Contact: Mr Jerry Hopper	Phone: 713-522-6300	E-Mail: amy.weinberg@Eurofinset.com	State of Origin:	Page: ~~Page 1 of 13~~ 1 of 1
Company: Solutia Inc.	PWSID:	Analysis Requested		Job #: 6122
Address: 702 Clydesdale Ave.	Due Date Requested:			Preservation Codes:
City: Anniston	TAT Requested (days): Standard			A HCL M Hexane; B NaOH N - None; C Zn Acetate O AsNaO2; D Nitric Acid P Na2O4S; E NaHSO4 Q Na2SO3; F MeOH R Na2S2O3; G Amchlor S H2SO4; H Ascorbic Acid T TSP Dodecahydrate; I Ice U Acetone; J DI Water V MCAA; K EDTA W pH 4-5; L EDA Z other (specify)
State, Zip: AL, 36201-5328	Compliance Project: Δ Yes Δ No			
Phone: 713-522-6300(Tel)	PO #: ~~45000622~~ 49200691			
Email: johopp@eastman.com wbsmith@gsi-net.com	WO #:			Other:
Project Name: Anniston RCRA April 2022	Project #: 68018993			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B	8260B	8270D	8270D	8270D	8270D	8270D	8081B_8082A	8141B	8141B	6010C - Cobalt	6010C	7470A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N	N	N	N	N	N	N	D	D	D			
MW-20A	4-5-22	1347	G	Water		X	X			X			X	X		X		X	30	see note below
MW-13A		1656		Water					X				X		X				6	
OW-15		1619		Water			X		X				X	X		X		X	10	
OW-15F		1619		Water	X								X			X		X	3	
OW-16A		1353		Water				X	X				X	X			X	X	10	
OW-16AF		1353		Water	X								X				X	X	3	
MW-20AF		1347		Water	X								X						2	
Field Duplicate 1	↓	—	↓	Water			X			X			X	X		X		X	10	See note below
~~Trip~~blank 20220406	4-6-22	647	—	Water				X											2	
				Water																NOTE: Analyze per attached worksheet by 8270D SIM if results of 8270D come back non-detect
				Water																

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ___ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level II

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by: Jessica Alanis	Date/Time: 4/6/22 800	Company: GSI	Received by: [signature]	Date/Time: 4/7 10:40	Company: ETS		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:		

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

1.4 | 2.3 | 0.1 | 1.0 | 0.4 | 1.1
2.0 | 2.9 | 0.7 | 1.6 | 1.0 | 1.7 °C

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Weinberg, Amy	Carrier Tracking No(s)	COC No: 680-689385.1
Client Contact: Shipping/Receiving	Phone	E-Mail: amy.weinberg@et.eurofinsus.com	State of Origin: Alabama	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Alabama		Job #: 680-213610-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 4/20/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #			
Email:	WO #			
Project Name: Anniston RCRA April 2022	Project #: 68018993			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3510C Parathion/Sulfotepp	8141B/3510C Parathion	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-20A (680-213610-1)	4/5/22	13:47 Central		Water			X		2	
MW-20A MS (680-213610-1MS)	4/5/22	13:47 Central	MS	Water			X		2	
MW-20A MSD (680-213610-1MSD)	4/5/22	13:47 Central	MSD	Water			X		2	
MW-13A (680-213610-2)	4/5/22	16:56 Central		Water				X	2	
OW-15 (680-213610-3)	4/5/22	16:19 Central		Water			X		2	
OW-16A (680-213610-5)	4/5/22	13:53 Central		Water			X		2	
Field Duplicate 1 (680-213610-8)	4/5/22	Central		Water			X		2	

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	4/7 1540		[signature]	4/8/22 1125	EHADEN
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time.	Company	Received by.	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 577736, 577737 | Cooler Temperature(s) °C and Other Remarks: -0.1, 5.1 IR1-CF+0.1

Ver: 06/08/2021

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4/21/2022

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-213610-1

Login Number: 213610
List Number: 1
Creator: Watters, David

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-213610-1

Login Number: 213610
List Number: 2
Creator: Rystrom, Joshua R

List Source: Eurofins Denver
List Creation: 04/09/22 09:49 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: RCRA Groundwater Monitoring Project Number: 680-213549-1
Reviewer: Ben Smith Validation Date: 18 May 2022

Laboratory: Eurofins Savannah, Eurofins Denver SDG #: 680-213549-1
Analytical Method (type and no.): VOCs (8260B), SVOCS (8270D), PCBs (8081B/8082A), Pesticides (8141B), PCB Homologs (680)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: MW-11A, OW-08A, OW-08AF, Trip Blank 20220405

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?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	Trip Blank 20220405
g) Field parameters collected (note types)?	☐	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☐	☒	☐	Temperature correction for ORP standard value incorrectly calculated. Correct value at ~18.7°C is ~236 mV, but was calculated and calibrated to 219 mV (7% too low) for YSI serial number c2207 (used during purging of MW-11A on 4/4/22). Correct value at ~17.5°C is ~238 mV, but was calculated and calibrated to 283 mV (19% too high) for YSI serial number c2207 (used during purging of OW-08A on 4/5/22). Incorrect ORP measurements for these two wells are not expected to impact the laboratory analytical data quality. No results are qualified on this basis. All other calibrations are correct and within control limits.
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	

Note Deficiencies: _____

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☐	☒	☐	
g) Were any matrix problems noted?	☐	☒	☐	

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☒	☐	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	☐	☒	☐	
b) Were field dup. precision criteria met (note RPD)?	☐	☐	☒	
c) Were lab duplicates analyzed (note original and duplicate samples)?	☐	☒	☐	
d) Were lab dup. precision criteria met (note RPD)?	☐	☐	☒	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☐	☒	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☐	☒	☐	2-Fluorophenol (25% recovery) and Phenol-d5 (22% recovery) recovered just below lower control limits (26 and 27%, respectively) in sample MW-11A for SVOC analysis by 8270D, so non-detect results for 4-Nitrophenol and O,O,O-Triethylphosphorothioate are qualified as estimated (UJ) on this basis.
b) Were surrogate recoveries not calculated due to dilutions?	☐	☐	☒	

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
MW-11A	4-Nitrophenol	<25	UJ	Surrogates (2-FP and Phenol-d5) recovered below lower control limits
MW-11A	O,O,O-Triethylphosphorothioate	<10	UJ	Surrogates (2-FP and Phenol-d5) recovered below lower control limits

Signature: Wade Benjamin Smith Date: 18 May 2022

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: RCRA Groundwater Monitoring Project Number: 680-213549-1
Reviewer: Ben Smith Validation Date: 18 May 2022

Laboratory: Eurofins Savannah SDG #: 680-213549-1
Analytical Method (type and no.): Metals (6010C), Mercury (7470A)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: MW-11A, OW-08A, OW-08AF, Trip Blank 20220405

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?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	Trip Blank 20220405
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☐	☒	☐	Temperature correction for ORP standard value incorrectly calculated. Correct value at ~18.7°C is ~236 mV, but was calculated and calibrated to 219 mV (7% too low) for YSI serial number c2207 (used during purging of MW-11A on 4/4/22). Correct value at ~17.5°C is ~238 mV, but was calculated and calibrated to 283 mV (19% too high) for YSI serial number c2207 (used during purging of OW-08A on 4/5/22). Incorrect ORP measurements for these two wells are not expected to impact the laboratory analytical data quality. No results are qualified on this basis. All other calibrations are correct and within control limits.
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	

Note Deficiencies: _____

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☐	☒	☐	
g) Were any matrix problems noted?	☐	☒	☐	

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?				
	☐	☒	☐	
b) Were field dup. precision criteria met (note RPD)?	☐	☐	☒	
c) Were lab duplicates analyzed (note original and duplicate samples)?				Multiple LCSDs
	☒	☐	☐	
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	LCSD for O,O,O-triethylphosphorothioate via 8270D LL was 49 % (criteria = 50%). All other LCSD RPDs < 29% (criteria for all others = 30%)

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☐	☒	

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: Wade Benjamin Smith Date: 18 May 2022

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ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-213549-1
Client Project/Site: Anniston RCRA April 2022
Revision: 1

For:
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Attn: Ben Smith

Amy Weinberg

Authorized for release by:
5/18/2022 11:42:39 AM

Amy Weinberg, Project Manager II
(813)885-7427
amy.weinberg@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213549-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 680-213549-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-213549-1

Comments
No additional comments.

Receipt
The samples were received on 4/6/2022 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.9º C and 4.1º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: Surrogates 2-Fluorophenol and Phenol-d5 were outside control limits for the following sample: MW-11A (680-213549-1). These surrogates are not associated with the target analytes required for this sample; therefore re-extraction was not performed, and the sample has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213549-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-213549-1	MW-11A	Water	04/05/22 17:24	04/06/22 10:15
680-213549-2	OW-08A	Water	04/05/22 08:00	04/06/22 10:15
680-213549-3	OW-08AF	Water	04/05/22 08:00	04/06/22 10:15
680-213549-4	Trip Blank 20220405	Water	04/05/22 09:00	04/06/22 10:15

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213549-1

Client Sample ID: MW-11A — Lab Sample ID: 680-213549-1

No Detections.

Client Sample ID: OW-08A — Lab Sample ID: 680-213549-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	3.2		0.50	0.088	ug/L	1		8081B/8082A	Total/NA
PCB-1254	1.9		0.50	0.088	ug/L	1		8081B/8082A	Total/NA
PCB-1260	0.58		0.50	0.059	ug/L	1		8081B/8082A	Total/NA

Client Sample ID: OW-08AF — Lab Sample ID: 680-213549-3

No Detections.

Client Sample ID: Trip Blank 20220405 — Lab Sample ID: 680-213549-4

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-11A

Date Collected: 04/05/22 17:24
Date Received: 04/06/22 10:15

Lab Sample ID: 680-213549-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		04/08/22 18:05	04/12/22 20:55	1
o,o',o''-Triethylphosphorothioate	<10		10	0.97	ug/L		04/08/22 18:05	04/12/22 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*34*		*32 - 113*	*04/08/22 18:05*	*04/12/22 20:55*	*1*
2-Fluorophenol	*25*	*S1-*	*26 - 109*	*04/08/22 18:05*	*04/12/22 20:55*	*1*
Nitrobenzene-d5	*33*		*32 - 118*	*04/08/22 18:05*	*04/12/22 20:55*	*1*
Phenol-d5	*22*	*S1-*	*27 - 110*	*04/08/22 18:05*	*04/12/22 20:55*	*1*
Terphenyl-d14	*41*		*10 - 126*	*04/08/22 18:05*	*04/12/22 20:55*	*1*
2,4,6-Tribromophenol	*41*		*39 - 124*	*04/08/22 18:05*	*04/12/22 20:55*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		04/12/22 19:10	04/13/22 20:12	1
PCB-1221	<0.50		0.50	0.087	ug/L		04/12/22 19:10	04/13/22 20:12	1
PCB-1232	<0.50		0.50	0.087	ug/L		04/12/22 19:10	04/13/22 20:12	1
PCB-1242	<0.50		0.50	0.087	ug/L		04/12/22 19:10	04/13/22 20:12	1
PCB-1248	<0.50		0.50	0.087	ug/L		04/12/22 19:10	04/13/22 20:12	1
PCB-1254	<0.50		0.50	0.087	ug/L		04/12/22 19:10	04/13/22 20:12	1
PCB-1260	<0.50		0.50	0.058	ug/L		04/12/22 19:10	04/13/22 20:12	1
PCB-1268	<0.50		0.50	0.087	ug/L		04/12/22 19:10	04/13/22 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*48*		*14 - 130*	*04/12/22 19:10*	*04/13/22 20:12*	*1*
Tetrachloro-m-xylene	*44*		*40 - 130*	*04/12/22 19:10*	*04/13/22 20:12*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/11/22 15:14	04/14/22 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*64*		*60 - 154*	*04/11/22 15:14*	*04/14/22 20:39*	*1*

Client Sample ID: OW-08A

Date Collected: 04/05/22 08:00
Date Received: 04/06/22 10:15

Lab Sample ID: 680-213549-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/16/22 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/16/22 15:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*04/16/22 15:38*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*04/16/22 15:38*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/16/22 15:38*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.0		1.0	0.10	ug/L		04/09/22 20:55	04/19/22 16:54	1
1,4-Dichlorobenzene	<1.0		1.0	0.10	ug/L		04/09/22 20:55	04/19/22 16:54	1
4-Nitrophenol	<25		25	4.0	ug/L		04/09/22 20:55	04/19/22 16:54	1

Client Sample ID: OW-08A

Date Collected: 04/05/22 08:00
Date Received: 04/06/22 10:15

Lab Sample ID: 680-213549-2
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.20		0.20	0.10	ug/L		04/09/22 20:55	04/19/22 16:54	1
o,o',o''-Triethylphosphorothioate	<1.0		1.0	0.13	ug/L		04/09/22 20:55	04/19/22 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*73*		*39 - 133*	*04/09/22 20:55*	*04/19/22 16:54*	*1*
2-Fluorobiphenyl	*62*		*31 - 107*	*04/09/22 20:55*	*04/19/22 16:54*	*1*
2-Fluorophenol	*57*		*18 - 112*	*04/09/22 20:55*	*04/19/22 16:54*	*1*
Nitrobenzene-d5	*66*		*37 - 103*	*04/09/22 20:55*	*04/19/22 16:54*	*1*
Phenol-d5	*60*		*20 - 113*	*04/09/22 20:55*	*04/19/22 16:54*	*1*
Terphenyl-d14	*80*		*22 - 121*	*04/09/22 20:55*	*04/19/22 16:54*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 20:28	1
PCB-1221	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 20:28	1
PCB-1232	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 20:28	1
PCB-1242	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 20:28	1
PCB-1248	**3.2**		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 20:28	1
PCB-1254	**1.9**		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 20:28	1
PCB-1260	**0.58**		0.50	0.059	ug/L		04/12/22 19:10	04/13/22 20:28	1
PCB-1268	<0.50		0.50	0.088	ug/L		04/12/22 19:10	04/13/22 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*47*		*14 - 130*	*04/12/22 19:10*	*04/13/22 20:28*	*1*
Tetrachloro-m-xylene	*51*		*40 - 130*	*04/12/22 19:10*	*04/13/22 20:28*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/11/22 15:14	04/14/22 21:19	1
Sulfotepp	<1.5		1.5	0.16	ug/L		04/11/22 15:14	04/14/22 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*85*		*60 - 154*	*04/11/22 15:14*	*04/14/22 21:19*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/06/22 15:52	04/07/22 15:07	1
Manganese	<0.010		0.010	0.0013	mg/L		04/06/22 15:52	04/07/22 15:07	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/08/22 07:56	04/08/22 15:11	1

Client Sample ID: OW-08AF

Date Collected: 04/05/22 08:00
Date Received: 04/06/22 10:15

Lab Sample ID: 680-213549-3
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.089	ug/L		04/12/22 19:10	04/13/22 20:44	1
PCB-1221, Dissolved	<0.50		0.50	0.089	ug/L		04/12/22 19:10	04/13/22 20:44	1
PCB-1232, Dissolved	<0.50		0.50	0.089	ug/L		04/12/22 19:10	04/13/22 20:44	1

Client Sample ID: OW-08AF

Lab Sample ID: 680-213549-3

Date Collected: 04/05/22 08:00
Matrix: Water
Date Received: 04/06/22 10:15

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242, Dissolved	<0.50		0.50	0.089	ug/L		04/12/22 19:10	04/13/22 20:44	1
PCB-1248, Dissolved	<0.50		0.50	0.089	ug/L		04/12/22 19:10	04/13/22 20:44	1
PCB-1254, Dissolved	<0.50		0.50	0.089	ug/L		04/12/22 19:10	04/13/22 20:44	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		04/12/22 19:10	04/13/22 20:44	1
PCB-1268, Dissolved	<0.50		0.50	0.089	ug/L		04/12/22 19:10	04/13/22 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*25*		*14 - 130*	*04/12/22 19:10*	*04/13/22 20:44*	*1*
Tetrachloro-m-xylene	*65*		*40 - 130*	*04/12/22 19:10*	*04/13/22 20:44*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/06/22 15:52	04/07/22 15:10	1
Manganese, Dissolved	<0.010		0.010	0.0013	mg/L		04/06/22 15:52	04/07/22 15:10	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/08/22 07:56	04/08/22 15:13	1

Client Sample ID: Trip Blank 20220405

Lab Sample ID: 680-213549-4

Date Collected: 04/05/22 09:00
Matrix: Water
Date Received: 04/06/22 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/16/22 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/16/22 15:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*04/16/22 15:57*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*04/16/22 15:57*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/16/22 15:57*	*1*

Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213549-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	DBFM	BFB
Lab Sample ID	Client Sample ID	(70-130)	(60-124)	(70-130)	(70-130)
680-213549-2	OW-08A	94	82	107	92
680-213549-4	Trip Blank 20220405	95	86	110	92
LCS 680-716104/4	Lab Control Sample	94	103	103	102
LCSD 680-716104/5	Lab Control Sample Dup	102	109	117	99
MB 680-716104/9	Method Blank	95	81	104	95

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(32-113)	(26-109)	(32-118)	(27-110)	(10-126)	(39-124)
680-213549-1	MW-11A	34	25 S1-	33	22 S1-	41	41
LCS 680-714926/11-A	Lab Control Sample	68	48	66	49	79	84
LCS 680-714926/8-A	Lab Control Sample	57	53	60	54	80	78
LCSD 680-714926/12-A	Lab Control Sample Dup	58	45	56	47	72	77
MB 680-714926/7-A	Method Blank	49	41	51	39	72	64

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(39-133)	(31-107)	(18-112)	(37-103)	(20-113)	(22-121)
680-213549-2	OW-08A	73	62	57	66	60	80
LCS 680-715043/17-A	Lab Control Sample	73	55	56	62	56	84
LCS 680-715043/19-A	Lab Control Sample	92	70	73	87	73	93
LCSD 680-715043/18-A	Lab Control Sample Dup	85	68	72	67	65	87
LCSD 680-715043/20-A	Lab Control Sample Dup	73	47	41	41	42	88
MB 680-715043/16-A	Method Blank	81	65	67	76	65	101

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14

Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213549-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-213549-1	MW-11A	48	44
680-213549-2	OW-08A	47	51
LCS 680-715429/13-A	Lab Control Sample	73	54
MB 680-715429/12-A	Method Blank	71	59

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-213549-3	OW-08AF	25	65

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPP1
Lab Sample ID	Client Sample ID	(60-154)
680-213549-1	MW-11A	64
680-213549-2	OW-08A	85
LCS 280-571393/2-A	Lab Control Sample	89
MB 280-571393/1-A	Method Blank	78

Surrogate Legend

TPP = Triphenylphosphate

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-716104/9
Matrix: Water
Analysis Batch: 716104

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/16/22 15:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/16/22 15:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 124*		*04/16/22 15:19*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*04/16/22 15:19*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*04/16/22 15:19*	*1*

Lab Sample ID: LCS 680-716104/4
Matrix: Water
Analysis Batch: 716104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorobenzene			50.0	53.6		ug/L		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-716104/5
Matrix: Water
Analysis Batch: 716104

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene			50.0	53.5		ug/L		107	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*
Dibromofluoromethane (Surr)	*117*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-714926/7-A
Matrix: Water
Analysis Batch: 715438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 714926

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		04/08/22 18:05	04/12/22 17:41	1
o,o',o''-Triethylphosphorothioate	<10		10	1.0	ug/L		04/08/22 18:05	04/12/22 17:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*49*		*32 - 113*	*04/08/22 18:05*	*04/12/22 17:41*	*1*
2-Fluorophenol	*41*		*26 - 109*	*04/08/22 18:05*	*04/12/22 17:41*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-714926/7-A
Matrix: Water
Analysis Batch: 715438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 714926

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	51		32 - 118	04/08/22 18:05	04/12/22 17:41	1
Phenol-d5	39		27 - 110	04/08/22 18:05	04/12/22 17:41	1
Terphenyl-d14	72		10 - 126	04/08/22 18:05	04/12/22 17:41	1
2,4,6-Tribromophenol	64		39 - 124	04/08/22 18:05	04/12/22 17:41	1

Lab Sample ID: LCS 680-714926/11-A
Matrix: Water
Analysis Batch: 715438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 714926

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o,o',o''-Triethylphosphorothioate			100	60.3		ug/L		60	23 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	68		32 - 113
2-Fluorophenol	48		26 - 109
Nitrobenzene-d5	66		32 - 118
Phenol-d5	49		27 - 110
Terphenyl-d14	79		10 - 126
2,4,6-Tribromophenol	84		39 - 124

Lab Sample ID: LCS 680-714926/8-A
Matrix: Water
Analysis Batch: 715438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 714926

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4-Nitrophenol			200	155		ug/L		77	44 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	57		32 - 113
2-Fluorophenol	53		26 - 109
Nitrobenzene-d5	60		32 - 118
Phenol-d5	54		27 - 110
Terphenyl-d14	80		10 - 126
2,4,6-Tribromophenol	78		39 - 124

Lab Sample ID: LCSD 680-714926/12-A
Matrix: Water
Analysis Batch: 715438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 714926

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o,o',o''-Triethylphosphorothioate			100	55.1		ug/L		55	23 - 130	9	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	58		32 - 113
2-Fluorophenol	45		26 - 109
Nitrobenzene-d5	56		32 - 118
Phenol-d5	47		27 - 110

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-714926/12-A
Matrix: Water
Analysis Batch: 715438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 714926

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*72*		*10 - 126*
2,4,6-Tribromophenol	*77*		*39 - 124*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 680-715043/16-A
Matrix: Water
Analysis Batch: 716445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715043

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<1.0		1.0	0.10	ug/L		04/09/22 20:55	04/19/22 14:51	1
1,4-Dichlorobenzene	<1.0		1.0	0.10	ug/L		04/09/22 20:55	04/19/22 14:51	1
4-Nitrophenol	<25		25	4.0	ug/L		04/09/22 20:55	04/19/22 14:51	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	0.10	ug/L		04/09/22 20:55	04/19/22 14:51	1
o,o',o''-Triethylphosphorothioate	<1.0		1.0	0.13	ug/L		04/09/22 20:55	04/19/22 14:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*81*		*39 - 133*	*04/09/22 20:55*	*04/19/22 14:51*	*1*
2-Fluorobiphenyl	*65*		*31 - 107*	*04/09/22 20:55*	*04/19/22 14:51*	*1*
2-Fluorophenol	*67*		*18 - 112*	*04/09/22 20:55*	*04/19/22 14:51*	*1*
Nitrobenzene-d5	*76*		*37 - 103*	*04/09/22 20:55*	*04/19/22 14:51*	*1*
Phenol-d5	*65*		*20 - 113*	*04/09/22 20:55*	*04/19/22 14:51*	*1*
Terphenyl-d14	*101*		*22 - 121*	*04/09/22 20:55*	*04/19/22 14:51*	*1*

Lab Sample ID: LCS 680-715043/17-A
Matrix: Water
Analysis Batch: 716445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715043

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	10.0	4.52		ug/L		45	32 - 130
1,4-Dichlorobenzene	10.0	4.32		ug/L		43	31 - 130
4-Nitrophenol	20.0	13.4	J	ug/L		67	25 - 135
Indeno[1,2,3-cd]pyrene	10.0	9.00		ug/L		90	30 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*73*		*39 - 133*
2-Fluorobiphenyl	*55*		*31 - 107*
2-Fluorophenol	*56*		*18 - 112*
Nitrobenzene-d5	*62*		*37 - 103*
Phenol-d5	*56*		*20 - 113*
Terphenyl-d14	*84*		*22 - 121*

Lab Sample ID: LCS 680-715043/19-A
Matrix: Water
Analysis Batch: 716445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715043

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o,o',o''-Triethylphosphorothioate	10.0	10.5		ug/L		105	29 - 152

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 680-715043/19-A
Matrix: Water
Analysis Batch: 716445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715043

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	92		39 - 133
2-Fluorobiphenyl	70		31 - 107
2-Fluorophenol	73		18 - 112
Nitrobenzene-d5	87		37 - 103
Phenol-d5	73		20 - 113
Terphenyl-d14	93		22 - 121

Lab Sample ID: LCSD 680-715043/18-A
Matrix: Water
Analysis Batch: 716445

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 715043

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene			10.0	5.63		ug/L		56	32 - 130	22	30
1,4-Dichlorobenzene			10.0	5.79		ug/L		58	31 - 130	29	30
4-Nitrophenol			20.0	13.9	J	ug/L		70	25 - 135	3	30
Indeno[1,2,3-cd]pyrene			10.0	8.19		ug/L		82	30 - 130	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol	85		39 - 133
2-Fluorobiphenyl	68		31 - 107
2-Fluorophenol	72		18 - 112
Nitrobenzene-d5	67		37 - 103
Phenol-d5	65		20 - 113
Terphenyl-d14	87		22 - 121

Lab Sample ID: LCSD 680-715043/20-A
Matrix: Water
Analysis Batch: 716445

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 715043

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o,o',o''-Triethylphosphorothioate			10.0	6.38		ug/L		64	29 - 152	49	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol	73		39 - 133
2-Fluorobiphenyl	47		31 - 107
2-Fluorophenol	41		18 - 112
Nitrobenzene-d5	41		37 - 103
Phenol-d5	42		20 - 113
Terphenyl-d14	88		22 - 121

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-715429/12-A
Matrix: Water
Analysis Batch: 715675

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715429

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1221	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1232	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1242	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1248	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1254	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1260	<0.50		0.50	0.060	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1268	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		04/12/22 19:10	04/13/22 19:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*14 - 130*	*04/12/22 19:10*	*04/13/22 19:40*	*1*
Tetrachloro-m-xylene	*59*		*40 - 130*	*04/12/22 19:10*	*04/13/22 19:40*	*1*

Lab Sample ID: LCS 680-715429/13-A
Matrix: Water
Analysis Batch: 715675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715429

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	3.00	2.04		ug/L		68	44 - 130
PCB-1016, Dissolved	3.00	2.04		ug/L		68	44 - 130
PCB-1260	3.00	2.49		ug/L		83	35 - 130
PCB-1260, Dissolved	3.00	2.49		ug/L		83	35 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*73*		*14 - 130*
Tetrachloro-m-xylene	*54*		*40 - 130*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-571393/1-A
Matrix: Water
Analysis Batch: 571790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/11/22 15:14	04/13/22 22:55	1
Sulfotepp	<1.5		1.5	0.17	ug/L		04/11/22 15:14	04/13/22 22:55	1

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: MB 280-571393/1-A
Matrix: Water
Analysis Batch: 571790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571393

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	78		60 - 154	04/11/22 15:14	04/13/22 22:55	1

Lab Sample ID: LCS 280-571393/2-A
Matrix: Water
Analysis Batch: 571790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	4.00	3.36		ug/L		84	55 - 107
Sulfotepp	4.00	3.40		ug/L		85	53 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Triphenylphosphate	89		60 - 154

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-714544/1-A
Matrix: Water
Analysis Batch: 714942

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 714544

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/06/22 15:52	04/07/22 14:53	1
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/06/22 15:52	04/07/22 14:53	1
Manganese	<0.010		0.010	0.0013	mg/L		04/06/22 15:52	04/07/22 14:53	1
Manganese, Dissolved	<0.010		0.010	0.0013	mg/L		04/06/22 15:52	04/07/22 14:53	1

Lab Sample ID: LCS 680-714544/2-A
Matrix: Water
Analysis Batch: 714942

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 714544

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.0500	0.0523		mg/L		105	80 - 120
Cobalt, Dissolved	0.0500	0.0523		mg/L		105	80 - 120
Manganese	0.400	0.408		mg/L		102	80 - 120
Manganese, Dissolved	0.400	0.408		mg/L		102	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-714813/1-A
Matrix: Water
Analysis Batch: 714957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 714813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/08/22 07:51	04/08/22 14:40	1
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/08/22 07:51	04/08/22 14:40	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 680-714813/2-A
Matrix: Water
Analysis Batch: 714957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 714813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00241		mg/L		96	80 - 120
Mercury, Dissolved	0.00250	0.00241		mg/L		96	80 - 120

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213549-1

GC/MS VOA

Analysis Batch: 716104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213549-2	OW-08A	Total/NA	Water	8260B	
680-213549-4	Trip Blank 20220405	Total/NA	Water	8260B	
MB 680-716104/9	Method Blank	Total/NA	Water	8260B	
LCS 680-716104/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-716104/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 714926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213549-1	MW-11A	Total/NA	Water	3520C	
MB 680-714926/7-A	Method Blank	Total/NA	Water	3520C	
LCS 680-714926/11-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-714926/8-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-714926/12-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Prep Batch: 715043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213549-2	OW-08A	Total/NA	Water	3520C	
MB 680-715043/16-A	Method Blank	Total/NA	Water	3520C	
LCS 680-715043/17-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-715043/19-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-715043/18-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 680-715043/20-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 715438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213549-1	MW-11A	Total/NA	Water	8270D	714926
MB 680-714926/7-A	Method Blank	Total/NA	Water	8270D	714926
LCS 680-714926/11-A	Lab Control Sample	Total/NA	Water	8270D	714926
LCS 680-714926/8-A	Lab Control Sample	Total/NA	Water	8270D	714926
LCSD 680-714926/12-A	Lab Control Sample Dup	Total/NA	Water	8270D	714926

Analysis Batch: 716445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213549-2	OW-08A	Total/NA	Water	8270D LL	715043
MB 680-715043/16-A	Method Blank	Total/NA	Water	8270D LL	715043
LCS 680-715043/17-A	Lab Control Sample	Total/NA	Water	8270D LL	715043
LCS 680-715043/19-A	Lab Control Sample	Total/NA	Water	8270D LL	715043
LCSD 680-715043/18-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	715043
LCSD 680-715043/20-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	715043

GC Semi VOA

Prep Batch: 571393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213549-1	MW-11A	Total/NA	Water	3510C	
680-213549-2	OW-08A	Total/NA	Water	3510C	
MB 280-571393/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-571393/2-A	Lab Control Sample	Total/NA	Water	3510C	

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213549-1

GC Semi VOA

Analysis Batch: 571790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-571393/1-A	Method Blank	Total/NA	Water	8141B	571393
LCS 280-571393/2-A	Lab Control Sample	Total/NA	Water	8141B	571393

Analysis Batch: 571902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213549-1	MW-11A	Total/NA	Water	8141B	571393
680-213549-2	OW-08A	Total/NA	Water	8141B	571393

Prep Batch: 715429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213549-1	MW-11A	Total/NA	Water	3520C	
680-213549-2	OW-08A	Total/NA	Water	3520C	
680-213549-3	OW-08AF	Dissolved	Water	3520C	
MB 680-715429/12-A	Method Blank	Total/NA	Water	3520C	
LCS 680-715429/13-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 715675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213549-1	MW-11A	Total/NA	Water	8081B/8082A	715429
680-213549-2	OW-08A	Total/NA	Water	8081B/8082A	715429
680-213549-3	OW-08AF	Dissolved	Water	8081B/8082A	715429
MB 680-715429/12-A	Method Blank	Total/NA	Water	8081B/8082A	715429
LCS 680-715429/13-A	Lab Control Sample	Total/NA	Water	8081B/8082A	715429

Metals

Prep Batch: 714544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213549-2	OW-08A	Total Recoverable	Water	3005A	
680-213549-3	OW-08AF	Dissolved	Water	3005A	
MB 680-714544/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-714544/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 714813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213549-2	OW-08A	Total/NA	Water	7470A	
680-213549-3	OW-08AF	Dissolved	Water	7470A	
MB 680-714813/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-714813/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 714942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213549-2	OW-08A	Total Recoverable	Water	6010C	714544
680-213549-3	OW-08AF	Dissolved	Water	6010C	714544
MB 680-714544/1-A	Method Blank	Total Recoverable	Water	6010C	714544
LCS 680-714544/2-A	Lab Control Sample	Total Recoverable	Water	6010C	714544

Analysis Batch: 714957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213549-2	OW-08A	Total/NA	Water	7470A	714813
680-213549-3	OW-08AF	Dissolved	Water	7470A	714813

Metals (Continued)

Analysis Batch: 714957 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-714813/1-A	Method Blank	Total/NA	Water	7470A	714813
LCS 680-714813/2-A	Lab Control Sample	Total/NA	Water	7470A	714813

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213549-1

Client Sample ID: MW-11A

Lab Sample ID: 680-213549-1

Date Collected: 04/05/22 17:24

Matrix: Water

Date Received: 04/06/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1028.5 mL	1 mL	714926	04/08/22 18:05	IR	TAL SAV
Total/NA	Analysis	8270D		1			715438	04/12/22 20:55	DC	TAL SAV
	Instrument ID: CMSE									
Total/NA	Prep	3520C			1029.2 mL	5 mL	715429	04/12/22 19:10	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			715675	04/13/22 20:12	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			1051.7 mL	2 mL	571393	04/11/22 15:14	E	TAL DEN
Total/NA	Analysis	8141B		1			571902	04/14/22 20:39	MKW	TAL DEN
	Instrument ID: SGC_D2									

Client Sample ID: OW-08A

Lab Sample ID: 680-213549-2

Date Collected: 04/05/22 08:00

Matrix: Water

Date Received: 04/06/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	716104	04/16/22 15:38	Y1S	TAL SAV
	Instrument ID: CMSC									
Total/NA	Prep	3520C			1001.6 mL	1 mL	715043	04/09/22 20:55	IR	TAL SAV
Total/NA	Analysis	8270D LL		1			716445	04/19/22 16:54	OK	TAL SAV
	Instrument ID: CMSD									
Total/NA	Prep	3520C			1019.6 mL	5 mL	715429	04/12/22 19:10	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			715675	04/13/22 20:28	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			1039.3 mL	2 mL	571393	04/11/22 15:14	E	TAL DEN
Total/NA	Analysis	8141B		1			571902	04/14/22 21:19	MKW	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	714544	04/06/22 15:52	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			714942	04/07/22 15:07	BCB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	714813	04/08/22 07:56	JKL	TAL SAV
Total/NA	Analysis	7470A		1			714957	04/08/22 15:11	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: OW-08AF

Lab Sample ID: 680-213549-3

Date Collected: 04/05/22 08:00

Matrix: Water

Date Received: 04/06/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1008.1 mL	5 mL	715429	04/12/22 19:10	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			715675	04/13/22 20:44	JCK	TAL SAV
	Instrument ID: CSGK									
Dissolved	Prep	3005A			50 mL	50 mL	714544	04/06/22 15:52	JE	TAL SAV
Dissolved	Analysis	6010C		1			714942	04/07/22 15:10	BCB	TAL SAV
	Instrument ID: ICPH									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213549-1

Client Sample ID: OW-08AF

Lab Sample ID: 680-213549-3

Date Collected: 04/05/22 08:00

Matrix: Water

Date Received: 04/06/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			50 mL	50 mL	714813	04/08/22 07:56	JKL	TAL SAV
Dissolved	Analysis	7470A		1			714957	04/08/22 15:13	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: Trip Blank 20220405

Lab Sample ID: 680-213549-4

Date Collected: 04/05/22 09:00

Matrix: Water

Date Received: 04/06/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	716104	04/16/22 15:57	Y1S	TAL SAV
	Instrument ID: CMSC									

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213549-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-22

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-09-23
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	04-17-22
Oklahoma	NELAP	8614	08-31-22
Oregon	NELAP	4025-011	04-21-22
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-17-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213549-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	TAL DEN
6010C	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
7470A	Preparation, Mercury	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone. 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing America

5/18/2022 (Rev. 1)

Client Information	Sampler: JA, EGK, AJV	Lab PM: Weinberg, Amy	Carrier Tracking No(s):	COC No.: 680-134396-49183 5
Client Contact: Mr Jerry Hopper	Phone: 713-522-6300	E-Mail: amy.weinberg@Eurofinset.com	State of Origin:	Page: Page ~~5 of 13~~ 1 of 1
Company: Solutia Inc.	PWSID:	Analysis Requested		Job #: 6122
Address: 702 Clydesdale Ave	Due Date Requested:			
City: Anniston	TAT Requested (days): standard			
State, Zip: AL 36201-5328	Compliance Project: Δ Yes Δ No			
Phone: 713-522-6300(Tel)	PO #: ~~45008822~~ 4920069 1			
Email: johopp@eastman.com wbsmith@gsi-net.com	WO #:			
Project Name: Anniston RCRA April 2022	Project #: 68018993			
Site:	SSOW#:			

Preservation Codes

A HCL	M Hexane
B NaOH	N None
C Zn Acetate	O AsNaO2
D Nitric Acid	P Na2O4S
E NaHSO4	Q Na2SO3
F MeOH	R Na2S2O3
G Amchlor	S H2SO4
H Ascorbic Acid	T TSP Dodecahydrate
I Ice	U Acetone
J DI Water	V MCAA
K EDTA	W pH 4-5
L EDA	Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B Chlorobenzene	8260B 1,2,4 TCB/ Chlorobenzene	8270D 1,2-DCB,1,4-DCB/4-NP/ooo-TEPP/indeno(1,2,3-cd)pyrene	8270D - 4 NP/ooo-TEPP	8270D 1,2-DCB,1,4 DCB/4-NP/ooo TEPP/2,4	8270D 1,2-DCB,1,4-DCB/4-NP/ooo-TEPP/Ind	8081B_8082A - PCB	8141B Parathion/Sulfotepp	8141B Parathion	6010C Cobalt	6010C Cobalt/Manganese	7470A Total Hg	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	N	N	N	N	N	N	N	D	D	D		
MW-11A	4-4-22	1724	G	Water						X			X		X				6	
OW-08A	4-5-22	800	G	Water			X		X				X	X			X	X	10	8270LL (see below)
OW-08AF	4-5-22	800	G	Water									X				X	X	3	
Trip blank 20220405	4-5-22	900	G	Water				X											2	
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																

680-213549 Chain of Custody

RL 1,2-DCB/1,4-DCB = 1 ug/L
RL Indeno(1,2,3-cd)pyrene = 0.2 ug/L
RL 4-NP = 25 ug/L
RL OOO-TEP = 10 ug/L

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify): Level II

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jessica Adams	4/5/22 1000	GSI	[signature]	4/6/22 10 15	ET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3-3 | 3 5 / 3 9 | 4 1

Ver: 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Weinberg, Amy	Carrier Tracking No(s):	COC No: 680-689296.1
Client Contact: Shipping/Receiving	Phone	E-Mail: amy.weinberg@et.eurofinsus com	State of Origin: Alabama	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Alabama		Job #: 680-213549-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 4/19/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #			
Email:	WO #			
Project Name: Anniston RCRA April 2022	Project #: 68018993			
Site	SSOW#			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3510C Parathion	8141B/3510C Parathion/Sulfotepp	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-11A (680-213549-1)	4/5/22	17:24 Central		Water			X		2	
OW-08A (680-213549-2)	4/5/22	08:00 Central		Water				X	2	

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Southeast, LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		4/7 1000			4/8/22 1125	EDADEN
2	Relinquished by:	Date/Time	Company	Received by	Date/Time.	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time:	Company

Custody Seals Intact: | Custody Seal No.: 157722

Cooler Temperature(s) °C and Other Remarks: 2.1 IR12 CF+0.1

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-213549-1

Login Number: 213549
List Number: 1
Creator: Padayao, Abigail

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-213549-1

Login Number: 213549
List Number: 2
Creator: Rystrom, Joshua R

List Source: Eurofins Denver
List Creation: 04/09/22 09:49 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: CERCLA Groundwater Monitoring Project Number: 680-213746-1
Reviewer: Ben Smith Validation Date: 20 May 2022

Laboratory: Eurofins Savannah, Eurofins Lancaster Laboratories SDG #: 680-213746-1
Analytical Method (type and no.): PCBs (8081B/8082A), PCB Homologs (680)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: OWR-14D, OWR-14DF, Field Duplicate 2, Field Duplicate 2F, T-18, T-18F, OWR-3S, WEL-04, WEL-04F, T-06, T-06F

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?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	Field Duplicate 2, Field Duplicate 2F
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☐	☒	☐	Temperature correction for ORP standard value incorrectly calculated. Correct value at 18.4°C is ~237 mV, but was calculated and calibrated to 215 mV (9% too low) for YSI serial number c2207 (used during purging and sampling of OWR-14D/Field Duplicate 2 and T-18), and was calculated and calibrated to 257 mV (9% too high) for YSI serial number c2202 (used during purging and sampling of WEL-04, T-06, and OWR-03S). Additionally, for YSI serial number c2202, the calibration form indicates "fail" but the instrument was calibrated to the 257 mV value as indicated by "calibrate" with the "✓" above it, and per personal communication with the field staff member who performed the calibration. Staff member has been instructed to record the instrument response that indicates the instrument has been calibrated to the calibration standard value. Incorrect ORP measurements for these two wells are not expected to impact the laboratory analytical data quality. No results are qualified on this basis. Calibration form also indicates that calibration for the lowest calibration standard (8.08 nTU) for Hanna HI98703 turbidimeter serial number c3117 on 4/6/22 may have not been within control limits, but the instrument response of 7.27 NTU is within control limits (10.0%) of the standard.
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	

Note Deficiencies: _____

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☒	☐	☐	Sample T-18 for Aroclor 1221 (DL=5), and samples T-18 and T-18F for Monochlorobiphenyls (DL=10 for both)
g) Were any matrix problems noted?	☐	☒	☐	

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	☒	☐	☐	Original = OWR-14D, OWR-14DF Dupl. = Field Duplicate 2, Field Duplicate 2F
b) Were field dup. precision criteria met (note RPD)?	☐	☒	☐	Only unfiltered samples (OWR-14D, Field Duplicate 2) had detections. Filtered samples (OWR-14DF, Field Duplicate 2F) were all ND. For unfiltered samples, RPDs that met precision criteria (35%) were: Tetrachlorobiphenyls = 29.6% (original= 0.23, duplicate= 0.31 ug/L). RPDs that did not meet precision criteria (35%) were: PCB-1248 = 50% (original= 2.1, duplicate= 3.5 ug/L), and RPD for Trichlorobiphenyls could not be calculated (original= ND, duplicate= 0.15 ug/L), so PCB-1248 and Trichlorobiphenyl results for OWR-14D and Field Duplicate 2 are qualified as estimated (J).
c) Were lab duplicates analyzed (note original and duplicate samples)?	☒	☐	☐	Multiple LCSDs
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	All LCSD RPDs <10%

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☐	☒	

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☐	☒	☐	Decachlorobiphenyl (DCB) recovered low (below the lab standard of 14%) for sample WEL-04F (12%) for Aroclor analysis by 8081B/80812A. Since the DCB recovery was greater than the "expanded lower acceptance limit" (10%) specified in the National Functional Guidelines for Organic Superfund Methods Data Review (NFG, 2020), all PCB Aroclor results for WEL-04F (all were non-detect) are qualified as estimated (UJ). Tetrachloro-m-xylene (TCX) recovered low (below the lab standard of 40%) for samples OWR-14D (34%) and for sample T-18F (28%) for Aroclor analysis by 8081B/80812A. Since the TCX recovery was greater than the expanded lower acceptance limit (10%) specified in the 2020 NFG, all PCB Aroclor results for OWR-14D and T-18F (both detected and non-detect results) are qualified as estimated (J or UJ, respectively).
b) Were surrogate recoveries not calculated due to dilutions?	☐	☒	☐	

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
OWR-14D	Trichlorobiphenyl	<0.1 ug/L	UJ	RPD between original and duplicate not calculated due to a non-detect result
Field Duplicate 2	Trichlorobiphenyl	0.15 ug/L	J	RPD between original and duplicate not calculated due to a non-detect result
OWR-14D	PCB-1248	2.1	J	Original and duplicate sample RPD exceeds control limits
Field Duplicate 2	PCB-1248	3.5	J	Original and duplicate sample RPD exceeds control limits
WEL-04F	PCB-1016	<0.5	UJ	Low DCB recovery
WEL-04F	PCB-1221	<0.5	UJ	Low DCB recovery
WEL-04F	PCB-1232	<0.5	UJ	Low DCB recovery
WEL-04F	PCB-1242	<0.5	UJ	Low DCB recovery
WEL-04F	PCB-1248	<0.5	UJ	Low DCB recovery
WEL-04F	PCB-1254	<0.5	UJ	Low DCB recovery
WEL-04F	PCB-1260	<0.5	UJ	Low DCB recovery
WEL-04F	PCB-1268	<0.5	UJ	Low DCB recovery

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

OWR-14D	PCB-1016	<0.5	UJ	Low TCX recovery
OWR-14D	PCB-1221	<0.5	UJ	Low TCX recovery
OWR-14D	PCB-1232	<0.5	UJ	Low TCX recovery
OWR-14D	PCB-1242	<0.5	UJ	Low TCX recovery
OWR-14D	PCB-1248	2.1	J	Low TCX recovery
OWR-14D	PCB-1254	<0.5	UJ	Low TCX recovery
OWR-14D	PCB-1260	<0.5	UJ	Low TCX recovery
OWR-14D	PCB-1268	<0.5	UJ	Low TCX recovery
T-18F	PCB-1016	<0.5	UJ	Low TCX recovery
T-18F	PCB-1221	<0.5	UJ	Low TCX recovery
T-18F	PCB-1232	<0.5	UJ	Low TCX recovery
T-18F	PCB-1242	<0.5	UJ	Low TCX recovery
T-18F	PCB-1248	<0.5	UJ	Low TCX recovery
T-18F	PCB-1254	<0.5	UJ	Low TCX recovery
T-18F	PCB-1260	<0.5	UJ	Low TCX recovery
T-18F	PCB-1268	<0.5	UJ	Low TCX recovery

Signature: Wade Benjamin Smith Date: 20 May 2022

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: CERCLA Groundwater Monitoring Project Number: 680-213746-1
Reviewer: Ben Smith Validation Date: 20 May 2022

Laboratory: Eurofins Savannah SDG #: 680-213746-1
Analytical Method (type and no.): Metals (6010C)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: OWR-14D, OWR-14DF, Field Duplicate 2, Field Duplicate 2F, T-18, T-18F, OWR-3S, WEL-04, WEL-04F, T-06, T-06F

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?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	Field Duplicate 2, Field Duplicate 2F
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☐	☒	☐	Temperature correction for ORP standard value incorrectly calculated. Correct value at 18.4°C is ~237 mV, but was calculated and calibrated to 215 mV (9% too low) for YSI serial number c2207 (used during purging and sampling of OWR-14D/Field Duplicate 2 and T-18), and was calculated and calibrated to 257 mV (9% too high) for YSI serial number c2202 (used during purging and sampling of WEL-04, T-06, and OWR-03S). Additionally, for YSI serial number c2202, the calibration form indicates "fail" but the instrument was calibrated to the 257 mV value as indicated by "calibrate" with the "✓" above it, and per personal communication with the field staff member who performed the calibration. Staff member has been instructed to record the instrument response that indicates the instrument has been calibrated to the calibration standard value. Incorrect ORP measurements for these two wells are not expected to impact the laboratory analytical data quality. No results are qualified on this basis. Calibration form also indicates that calibration for the lowest calibration standard (8.08 nTU) for Hanna HI98703 turbidimeter serial number c3117 on 4/6/22 may have not been within control limits, but the instrument response of 7.27 NTU is within control limits (10.0%) of the standard.
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	

Note Deficiencies: _____

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☐	☒	☐	
g) Were any matrix problems noted?	☐	☒	☐	

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?				Original = OWR-14D, OWR-14DF
	☒	☐	☐	Dupl. = Field Duplicate 2, Field Duplicate 2F
b) Were field dup. precision criteria met (note RPD)? samples, so RPDs could not be calculated	☐	☐	☒	Manganese was non-detect in all duplicate
c) Were lab duplicates analyzed (note original and duplicate samples)?				
	☐	☒	☐	
d) Were lab dup. precision criteria met (note RPD)?	☐	☐	☒	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☐	☒	

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: Wade Benjamin Smith Date: 20 May 2022

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ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-213746-1
Client Project/Site: Anniston CERCLA April 2022

For:
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Attn: Ben Smith

Amy Weinberg

Authorized for release by:
4/30/2022 12:26:20 PM

Amy Weinberg, Project Manager II
(813)885-7427
amy.weinberg@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213746-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213746-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-213746-1	OWR-14D	Water	04/06/22 10:57	04/08/22 10:30
680-213746-2	OWR-14DF	Water	04/06/22 10:57	04/08/22 10:30
680-213746-3	Field Duplicate 2	Water	04/06/22 00:00	04/08/22 10:30
680-213746-4	Field Duplicate 2F	Water	04/06/22 00:00	04/08/22 10:30
680-213746-5	T-18	Water	04/06/22 16:46	04/08/22 10:30
680-213746-6	T-18F	Water	04/06/22 16:46	04/08/22 10:30
680-213746-7	OWR-3S	Water	04/06/22 10:33	04/08/22 10:30
680-213746-8	WEL-04	Water	04/06/22 13:48	04/08/22 10:30
680-213746-9	T-06	Water	04/06/22 16:14	04/08/22 10:30
680-213746-10	WEL-04F	Water	04/06/22 13:48	04/08/22 10:30
680-213746-11	T-06F	Water	04/06/22 16:14	04/08/22 10:30

Job ID: 680-213746-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-213746-1

Comments
No additional comments.

Receipt
The samples were received on 4/8/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.7º C, 0.8º C, 2.0º C and 2.6º C.

GC Semi VOA
Method 8081B/8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: OWR-14D (680-213746-1) and T-18F (680-213746-6). These results have been reported and qualified.

Method 8081B/8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: WEL-04F (680-213746-10). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Dioxin Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: OWR-14D

Date Collected: 04/06/22 10:57
Date Received: 04/08/22 10:30

Lab Sample ID: 680-213746-1

Matrix: Water

Method: 680 - Polychlorinated Biphenyls by GCMS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	<0.10		0.10	0.020	ug/L		04/17/22 15:00	04/19/22 13:41	1
Total Heptachlorobiphenyls	<0.30		0.30	0.039	ug/L		04/17/22 15:00	04/19/22 13:41	1
Total Hexachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 13:41	1
Total Monochlorobiphenyls	<0.10		0.10	0.020	ug/L		04/17/22 15:00	04/19/22 13:41	1
Total Nonachlorobiphenyls	<0.50		0.50	0.20	ug/L		04/17/22 15:00	04/19/22 13:41	1
Total Octachlorobiphenyls	<0.30		0.30	0.049	ug/L		04/17/22 15:00	04/19/22 13:41	1
Total Pentachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 13:41	1
Total Tetrachlorobiphenyls	**0.23**		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 13:41	1
Total Trichlorobiphenyls	<0.10		0.10	0.020	ug/L		04/17/22 15:00	04/19/22 13:41	1
DCB Decachlorobiphenyl	<0.50		0.50	0.20	ug/L		04/17/22 15:00	04/19/22 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-52L	*59*		*42 - 105*	*04/17/22 15:00*	*04/19/22 13:41*	*1*
PCB-138L	*66*		*39 - 131*	*04/17/22 15:00*	*04/19/22 13:41*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.092	ug/L		04/16/22 18:41	04/18/22 20:35	1
PCB-1221	<0.50		0.50	0.092	ug/L		04/16/22 18:41	04/18/22 20:35	1
PCB-1232	<0.50		0.50	0.092	ug/L		04/16/22 18:41	04/18/22 20:35	1
PCB-1242	<0.50		0.50	0.092	ug/L		04/16/22 18:41	04/18/22 20:35	1
PCB-1248	**2.1**		0.50	0.092	ug/L		04/16/22 18:41	04/18/22 20:35	1
PCB-1254	<0.50		0.50	0.092	ug/L		04/16/22 18:41	04/18/22 20:35	1
PCB-1260	<0.50		0.50	0.061	ug/L		04/16/22 18:41	04/18/22 20:35	1
PCB-1268	<0.50		0.50	0.092	ug/L		04/16/22 18:41	04/18/22 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*44*		*14 - 130*	*04/16/22 18:41*	*04/18/22 20:35*	*1*
Tetrachloro-m-xylene	*34*	*S1-*	*40 - 130*	*04/16/22 18:41*	*04/18/22 20:35*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.010	0.0013	mg/L		04/12/22 17:22	04/13/22 19:00	1

Client Sample ID: OWR-14DF

Date Collected: 04/06/22 10:57
Date Received: 04/08/22 10:30

Lab Sample ID: 680-213746-2

Matrix: Water

Method: 680 - Polychlorinated Biphenyls by GCMS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	<0.10		0.10	0.019	ug/L		04/17/22 15:00	04/19/22 14:05	1
Total Heptachlorobiphenyls	<0.30		0.30	0.038	ug/L		04/17/22 15:00	04/19/22 14:05	1
Total Hexachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 14:05	1
Total Monochlorobiphenyls	<0.10		0.10	0.019	ug/L		04/17/22 15:00	04/19/22 14:05	1
Total Nonachlorobiphenyls	<0.50		0.50	0.19	ug/L		04/17/22 15:00	04/19/22 14:05	1
Total Octachlorobiphenyls	<0.30		0.30	0.048	ug/L		04/17/22 15:00	04/19/22 14:05	1
Total Pentachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 14:05	1
Total Tetrachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 14:05	1
Total Trichlorobiphenyls	<0.10		0.10	0.019	ug/L		04/17/22 15:00	04/19/22 14:05	1
DCB Decachlorobiphenyl	<0.50		0.50	0.19	ug/L		04/17/22 15:00	04/19/22 14:05	1

Client Sample ID: OWR-14DF

Date Collected: 04/06/22 10:57
Date Received: 04/08/22 10:30

Lab Sample ID: 680-213746-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-52L	60		42 - 105	04/17/22 15:00	04/19/22 14:05	1
PCB-138L	66		39 - 131	04/17/22 15:00	04/19/22 14:05	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/18/22 20:51	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/18/22 20:51	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/18/22 20:51	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/18/22 20:51	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/18/22 20:51	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/18/22 20:51	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		04/16/22 18:41	04/18/22 20:51	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/18/22 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	44		14 - 130	04/16/22 18:41	04/18/22 20:51	1
Tetrachloro-m-xylene	50		40 - 130	04/16/22 18:41	04/18/22 20:51	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	<0.010		0.010	0.0013	mg/L		04/12/22 17:22	04/13/22 19:03	1

Client Sample ID: Field Duplicate 2

Date Collected: 04/06/22 00:00
Date Received: 04/08/22 10:30

Lab Sample ID: 680-213746-3
Matrix: Water

Method: 680 - Polychlorinated Biphenyls by GCMS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	<0.10		0.10	0.020	ug/L		04/17/22 15:00	04/19/22 14:30	1
Total Heptachlorobiphenyls	<0.30		0.30	0.039	ug/L		04/17/22 15:00	04/19/22 14:30	1
Total Hexachlorobiphenyls	<0.20		0.20	0.030	ug/L		04/17/22 15:00	04/19/22 14:30	1
Total Monochlorobiphenyls	<0.10		0.10	0.020	ug/L		04/17/22 15:00	04/19/22 14:30	1
Total Nonachlorobiphenyls	<0.50		0.50	0.20	ug/L		04/17/22 15:00	04/19/22 14:30	1
Total Octachlorobiphenyls	<0.30		0.30	0.049	ug/L		04/17/22 15:00	04/19/22 14:30	1
Total Pentachlorobiphenyls	<0.20		0.20	0.030	ug/L		04/17/22 15:00	04/19/22 14:30	1
Total Tetrachlorobiphenyls	**0.31**		0.20	0.030	ug/L		04/17/22 15:00	04/19/22 14:30	1
Total Trichlorobiphenyls	**0.15**		0.10	0.020	ug/L		04/17/22 15:00	04/19/22 14:30	1
DCB Decachlorobiphenyl	<0.50		0.50	0.20	ug/L		04/17/22 15:00	04/19/22 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-52L	62		42 - 105	04/17/22 15:00	04/19/22 14:30	1
PCB-138L	66		39 - 131	04/17/22 15:00	04/19/22 14:30	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 21:07	1
PCB-1221	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 21:07	1
PCB-1232	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 21:07	1
PCB-1242	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 21:07	1
PCB-1248	**3.5**		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 21:07	1
PCB-1254	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 21:07	1
PCB-1260	<0.50		0.50	0.060	ug/L		04/16/22 18:41	04/18/22 21:07	1

Client Sample ID: Field Duplicate 2

Lab Sample ID: 680-213746-3
Matrix: Water
Date Collected: 04/06/22 00:00
Date Received: 04/08/22 10:30

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1268	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*43*		*14 - 130*	*04/16/22 18:41*	*04/18/22 21:07*	*1*
Tetrachloro-m-xylene	*44*		*40 - 130*	*04/16/22 18:41*	*04/18/22 21:07*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.010	0.0013	mg/L		04/12/22 17:22	04/13/22 19:06	1

Client Sample ID: Field Duplicate 2F

Lab Sample ID: 680-213746-4
Matrix: Water
Date Collected: 04/06/22 00:00
Date Received: 04/08/22 10:30

Method: 680 - Polychlorinated Biphenyls by GCMS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	<0.10		0.10	0.019	ug/L		04/17/22 15:00	04/19/22 14:54	1
Total Heptachlorobiphenyls	<0.30		0.30	0.039	ug/L		04/17/22 15:00	04/19/22 14:54	1
Total Hexachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 14:54	1
Total Monochlorobiphenyls	<0.10		0.10	0.019	ug/L		04/17/22 15:00	04/19/22 14:54	1
Total Nonachlorobiphenyls	<0.50		0.50	0.19	ug/L		04/17/22 15:00	04/19/22 14:54	1
Total Octachlorobiphenyls	<0.30		0.30	0.048	ug/L		04/17/22 15:00	04/19/22 14:54	1
Total Pentachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 14:54	1
Total Tetrachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 14:54	1
Total Trichlorobiphenyls	<0.10		0.10	0.019	ug/L		04/17/22 15:00	04/19/22 14:54	1
DCB Decachlorobiphenyl	<0.50		0.50	0.19	ug/L		04/17/22 15:00	04/19/22 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-52L	*57*		*42 - 105*	*04/17/22 15:00*	*04/19/22 14:54*	*1*
PCB-138L	*61*		*39 - 131*	*04/17/22 15:00*	*04/19/22 14:54*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 21:23	1
PCB-1221, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 21:23	1
PCB-1232, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 21:23	1
PCB-1242, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 21:23	1
PCB-1248, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 21:23	1
PCB-1254, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 21:23	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		04/16/22 18:41	04/18/22 21:23	1
PCB-1268, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*		*14 - 130*	*04/16/22 18:41*	*04/18/22 21:23*	*1*
Tetrachloro-m-xylene	*50*		*40 - 130*	*04/16/22 18:41*	*04/18/22 21:23*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	<0.010		0.010	0.0013	mg/L		04/12/22 17:22	04/13/22 19:09	1

Client Sample ID: T-18

Date Collected: 04/06/22 16:46
Date Received: 04/08/22 10:30

Lab Sample ID: 680-213746-5
Matrix: Water

Method: 680 - Polychlorinated Biphenyls by GCMS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	**2.2**		0.10	0.020	ug/L		04/17/22 15:00	04/19/22 15:19	1
Total Heptachlorobiphenyls	<0.30		0.30	0.039	ug/L		04/17/22 15:00	04/19/22 15:19	1
Total Hexachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 15:19	1
Total Nonachlorobiphenyls	<0.50		0.50	0.20	ug/L		04/17/22 15:00	04/19/22 15:19	1
Total Octachlorobiphenyls	<0.30		0.30	0.049	ug/L		04/17/22 15:00	04/19/22 15:19	1
Total Pentachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 15:19	1
Total Tetrachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 15:19	1
Total Trichlorobiphenyls	**0.16**		0.10	0.020	ug/L		04/17/22 15:00	04/19/22 15:19	1
DCB Decachlorobiphenyl	<0.50		0.50	0.20	ug/L		04/17/22 15:00	04/19/22 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-52L	*75*		*42 - 105*	*04/17/22 15:00*	*04/19/22 15:19*	*1*
PCB-138L	*74*		*39 - 131*	*04/17/22 15:00*	*04/19/22 15:19*	*1*

Method: 680 - Polychlorinated Biphenyls by GCMS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Monochlorobiphenyls	**6.4**		0.20	0.20	ug/L		04/17/22 15:00	04/20/22 13:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-52L	*69*		*42 - 105*	*04/17/22 15:00*	*04/20/22 13:10*	*10*
PCB-138L	*68*		*39 - 131*	*04/17/22 15:00*	*04/20/22 13:10*	*10*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/18/22 21:39	1
PCB-1221	**30**		0.50	0.44	ug/L		04/16/22 18:41	04/22/22 18:31	5
PCB-1232	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/18/22 21:39	1
PCB-1242	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/18/22 21:39	1
PCB-1248	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/18/22 21:39	1
PCB-1254	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/18/22 21:39	1
PCB-1260	<0.50		0.50	0.059	ug/L		04/16/22 18:41	04/18/22 21:39	1
PCB-1268	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/18/22 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*19*		*14 - 130*	*04/16/22 18:41*	*04/18/22 21:39*	*1*
Tetrachloro-m-xylene	*73*		*40 - 130*	*04/16/22 18:41*	*04/18/22 21:39*	*1*

Client Sample ID: T-18F

Date Collected: 04/06/22 16:46
Date Received: 04/08/22 10:30

Lab Sample ID: 680-213746-6
Matrix: Water

Method: 680 - Polychlorinated Biphenyls by GCMS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	**3.7**		0.10	0.019	ug/L		04/17/22 15:00	04/19/22 15:44	1
Total Heptachlorobiphenyls	<0.30		0.30	0.038	ug/L		04/17/22 15:00	04/19/22 15:44	1
Total Hexachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 15:44	1
Total Nonachlorobiphenyls	<0.50		0.50	0.19	ug/L		04/17/22 15:00	04/19/22 15:44	1
Total Octachlorobiphenyls	<0.30		0.30	0.048	ug/L		04/17/22 15:00	04/19/22 15:44	1
Total Pentachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 15:44	1
Total Tetrachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 15:44	1
Total Trichlorobiphenyls	**0.82**		0.10	0.019	ug/L		04/17/22 15:00	04/19/22 15:44	1

Client Sample ID: T-18F

Lab Sample ID: 680-213746-6

Date Collected: 04/06/22 16:46

Matrix: Water

Date Received: 04/08/22 10:30

Method: 680 - Polychlorinated Biphenyls by GCMS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	<0.50		0.50	0.19	ug/L		04/17/22 15:00	04/19/22 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-52L	*60*		*42 - 105*	*04/17/22 15:00*	*04/19/22 15:44*	*1*
PCB-138L	*58*		*39 - 131*	*04/17/22 15:00*	*04/19/22 15:44*	*1*

Method: 680 - Polychlorinated Biphenyls by GCMS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Monochlorobiphenyls	**45**		0.19	0.19	ug/L		04/17/22 15:00	04/20/22 13:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-52L	*58*		*42 - 105*	*04/17/22 15:00*	*04/20/22 13:35*	*10*
PCB-138L	*55*		*39 - 131*	*04/17/22 15:00*	*04/20/22 13:35*	*10*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		04/16/22 18:41	04/18/22 21:55	1
PCB-1221, Dissolved	<0.50		0.50	0.086	ug/L		04/16/22 18:41	04/18/22 21:55	1
PCB-1232, Dissolved	<0.50		0.50	0.086	ug/L		04/16/22 18:41	04/18/22 21:55	1
PCB-1242, Dissolved	<0.50		0.50	0.086	ug/L		04/16/22 18:41	04/18/22 21:55	1
PCB-1248, Dissolved	<0.50		0.50	0.086	ug/L		04/16/22 18:41	04/18/22 21:55	1
PCB-1254, Dissolved	<0.50		0.50	0.086	ug/L		04/16/22 18:41	04/18/22 21:55	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		04/16/22 18:41	04/18/22 21:55	1
PCB-1268, Dissolved	<0.50		0.50	0.086	ug/L		04/16/22 18:41	04/18/22 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*15*		*14 - 130*	*04/16/22 18:41*	*04/18/22 21:55*	*1*
Tetrachloro-m-xylene	*28*	*S1-*	*40 - 130*	*04/16/22 18:41*	*04/18/22 21:55*	*1*

Client Sample ID: OWR-3S

Lab Sample ID: 680-213746-7

Date Collected: 04/06/22 10:33

Matrix: Water

Date Received: 04/08/22 10:30

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/18/22 22:10	1
PCB-1221	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/18/22 22:10	1
PCB-1232	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/18/22 22:10	1
PCB-1242	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/18/22 22:10	1
PCB-1248	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/18/22 22:10	1
PCB-1254	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/18/22 22:10	1
PCB-1260	<0.50		0.50	0.058	ug/L		04/16/22 18:41	04/18/22 22:10	1
PCB-1268	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/18/22 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*30*		*14 - 130*	*04/16/22 18:41*	*04/18/22 22:10*	*1*
Tetrachloro-m-xylene	*41*		*40 - 130*	*04/16/22 18:41*	*04/18/22 22:10*	*1*

Client Sample ID: WEL-04

Date Collected: 04/06/22 13:48
Date Received: 04/08/22 10:30

Lab Sample ID: 680-213746-8

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 22:26	1
PCB-1221	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 22:26	1
PCB-1232	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 22:26	1
PCB-1242	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 22:26	1
PCB-1248	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 22:26	1
PCB-1254	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 22:26	1
PCB-1260	<0.50		0.50	0.059	ug/L		04/16/22 18:41	04/18/22 22:26	1
PCB-1268	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*48*		*14 - 130*	*04/16/22 18:41*	*04/18/22 22:26*	*1*
Tetrachloro-m-xylene	*57*		*40 - 130*	*04/16/22 18:41*	*04/18/22 22:26*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.073**		0.010	0.0013	mg/L		04/12/22 17:22	04/13/22 19:12	1

Client Sample ID: T-06

Date Collected: 04/06/22 16:14
Date Received: 04/08/22 10:30

Lab Sample ID: 680-213746-9

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 22:42	1
PCB-1221	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 22:42	1
PCB-1232	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 22:42	1
PCB-1242	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 22:42	1
PCB-1248	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 22:42	1
PCB-1254	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 22:42	1
PCB-1260	<0.50		0.50	0.059	ug/L		04/16/22 18:41	04/18/22 22:42	1
PCB-1268	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/18/22 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*14 - 130*	*04/16/22 18:41*	*04/18/22 22:42*	*1*
Tetrachloro-m-xylene	*46*		*40 - 130*	*04/16/22 18:41*	*04/18/22 22:42*	*1*

Client Sample ID: WEL-04F

Date Collected: 04/06/22 13:48
Date Received: 04/08/22 10:30

Lab Sample ID: 680-213746-10

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		04/27/22 21:35	04/29/22 20:18	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		04/27/22 21:35	04/29/22 20:18	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		04/27/22 21:35	04/29/22 20:18	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		04/27/22 21:35	04/29/22 20:18	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		04/27/22 21:35	04/29/22 20:18	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		04/27/22 21:35	04/29/22 20:18	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		04/27/22 21:35	04/29/22 20:18	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		04/27/22 21:35	04/29/22 20:18	1

Client Sample ID: WEL-04F

Lab Sample ID: 680-213746-10

Date Collected: 04/06/22 13:48

Matrix: Water

Date Received: 04/08/22 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*12*	*S1-*	*14 - 130*	*04/27/22 21:35*	*04/29/22 20:18*	*1*
Tetrachloro-m-xylene	*63*		*40 - 130*	*04/27/22 21:35*	*04/29/22 20:18*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**0.052**		0.010	0.0013	mg/L		04/12/22 17:22	04/13/22 19:15	1

Client Sample ID: T-06F

Lab Sample ID: 680-213746-11

Date Collected: 04/06/22 16:14

Matrix: Water

Date Received: 04/08/22 10:30

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/18/22 23:14	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/18/22 23:14	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/18/22 23:14	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/18/22 23:14	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/18/22 23:14	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/18/22 23:14	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		04/16/22 18:41	04/18/22 23:14	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/18/22 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*21*		*14 - 130*	*04/16/22 18:41*	*04/18/22 23:14*	*1*
Tetrachloro-m-xylene	*60*		*40 - 130*	*04/16/22 18:41*	*04/18/22 23:14*	*1*

Method: 680 - Polychlorinated Biphenyls by GCMS

Lab Sample ID: MB 410-245356/1-A
Matrix: Water
Analysis Batch: 245972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245356

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	<0.10		0.10	0.020	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Heptachlorobiphenyls	<0.30		0.30	0.040	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Hexachlorobiphenyls	<0.20		0.20	0.030	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Monochlorobiphenyls	<0.10		0.10	0.020	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Nonachlorobiphenyls	<0.50		0.50	0.20	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Octachlorobiphenyls	<0.30		0.30	0.050	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Pentachlorobiphenyls	<0.20		0.20	0.030	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Tetrachlorobiphenyls	<0.20		0.20	0.030	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Trichlorobiphenyls	<0.10		0.10	0.020	ug/L		04/17/22 15:00	04/19/22 12:26	1
DCB Decachlorobiphenyl	<0.50		0.50	0.20	ug/L		04/17/22 15:00	04/19/22 12:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-52L	*61*		*42 - 105*	*04/17/22 15:00*	*04/19/22 12:26*	*1*
PCB-138L	*70*		*39 - 131*	*04/17/22 15:00*	*04/19/22 12:26*	*1*

Lab Sample ID: LCS 410-245356/2-A
Matrix: Water
Analysis Batch: 245972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245356

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dichlorobiphenyls	1.25	0.850		ug/L		68	37 - 100
Total Heptachlorobiphenyls	3.76	2.67		ug/L		71	47 - 115
Total Hexachlorobiphenyls	2.51	1.78		ug/L		71	48 - 115
Total Monochlorobiphenyls	1.25	0.821		ug/L		66	33 - 91
Total Octachlorobiphenyls	3.75	2.68		ug/L		71	50 - 115
Total Pentachlorobiphenyls	2.50	1.73		ug/L		69	49 - 111
Total Tetrachlorobiphenyls	2.50	1.78		ug/L		71	41 - 96
Total Trichlorobiphenyls	1.26	0.896		ug/L		71	37 - 96
DCB Decachlorobiphenyl	6.28	5.10		ug/L		81	52 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-52L	*68*		*42 - 105*
PCB-138L	*67*		*39 - 131*

Lab Sample ID: LCSD 410-245356/3-A
Matrix: Water
Analysis Batch: 245972

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 245356

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dichlorobiphenyls	1.25	0.884		ug/L		71	37 - 100	4	30
Total Heptachlorobiphenyls	3.76	2.69		ug/L		72	47 - 115	1	30
Total Hexachlorobiphenyls	2.51	1.85		ug/L		74	48 - 115	4	30
Total Monochlorobiphenyls	1.25	0.820		ug/L		66	33 - 91	0	30
Total Octachlorobiphenyls	3.75	2.82		ug/L		75	50 - 115	5	30
Total Pentachlorobiphenyls	2.50	1.82		ug/L		73	49 - 111	5	30
Total Tetrachlorobiphenyls	2.50	1.80		ug/L		72	41 - 96	1	30
Total Trichlorobiphenyls	1.26	0.884		ug/L		70	37 - 96	1	30
DCB Decachlorobiphenyl	6.28	5.17		ug/L		82	52 - 119	1	30

Method: 680 - Polychlorinated Biphenyls by GCMS (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
PCB-52L	68		42 - 105
PCB-138L	70		39 - 131

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-716140/12-A
Matrix: Water
Analysis Batch: 716342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.90		0.90	0.90	ug/L		04/16/22 18:41	04/18/22 19:48	1
PCB-1016, Dissolved	<0.90		0.90	0.90	ug/L		04/16/22 18:41	04/18/22 19:48	1
PCB-1221	<0.90		0.90	0.90	ug/L		04/16/22 18:41	04/18/22 19:48	1
PCB-1221, Dissolved	<0.90		0.90	0.90	ug/L		04/16/22 18:41	04/18/22 19:48	1
PCB-1232	<0.90		0.90	0.90	ug/L		04/16/22 18:41	04/18/22 19:48	1
PCB-1232, Dissolved	<0.90		0.90	0.90	ug/L		04/16/22 18:41	04/18/22 19:48	1
PCB-1242	<0.90		0.90	0.90	ug/L		04/16/22 18:41	04/18/22 19:48	1
PCB-1242, Dissolved	<0.90		0.90	0.90	ug/L		04/16/22 18:41	04/18/22 19:48	1
PCB-1248	<0.90		0.90	0.90	ug/L		04/16/22 18:41	04/18/22 19:48	1
PCB-1248, Dissolved	<0.90		0.90	0.90	ug/L		04/16/22 18:41	04/18/22 19:48	1
PCB-1254	<0.90		0.90	0.90	ug/L		04/16/22 18:41	04/18/22 19:48	1
PCB-1254, Dissolved	<0.90		0.90	0.90	ug/L		04/16/22 18:41	04/18/22 19:48	1
PCB-1260	<0.60		0.60	0.60	ug/L		04/16/22 18:41	04/18/22 19:48	1
PCB-1260, Dissolved	<0.60		0.60	0.60	ug/L		04/16/22 18:41	04/18/22 19:48	1
PCB-1268	<0.90		0.90	0.90	ug/L		04/16/22 18:41	04/18/22 19:48	1
PCB-1268, Dissolved	<0.90		0.90	0.90	ug/L		04/16/22 18:41	04/18/22 19:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	108		14 - 130	04/16/22 18:41	04/18/22 19:48	1
Tetrachloro-m-xylene	47		40 - 130	04/16/22 18:41	04/18/22 19:48	1

Lab Sample ID: LCS 680-716140/13-A
Matrix: Water
Analysis Batch: 716342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	30.0	19.4		ug/L		65	44 - 130
PCB-1016, Dissolved	30.0	19.4		ug/L		65	44 - 130
PCB-1260	30.0	29.5		ug/L		98	35 - 130
PCB-1260, Dissolved	30.0	29.5		ug/L		98	35 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	106		14 - 130
Tetrachloro-m-xylene	43		40 - 130

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCSD 680-716140/14-A
Matrix: Water
Analysis Batch: 716342

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 716140

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			30.0	17.5		ug/L		58	44 - 130	10	30
PCB-1016, Dissolved			30.0	17.5		ug/L		58	44 - 130	10	30
PCB-1260			30.0	27.6		ug/L		92	35 - 130	7	40
PCB-1260, Dissolved			30.0	27.6		ug/L		92	35 - 130	7	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*107*		*14 - 130*
Tetrachloro-m-xylene	*40*		*40 - 130*

Lab Sample ID: MB 680-718076/2-A
Matrix: Water
Analysis Batch: 718424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 718076

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		04/27/22 21:35	04/29/22 19:36	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		04/27/22 21:35	04/29/22 19:36	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		04/27/22 21:35	04/29/22 19:36	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		04/27/22 21:35	04/29/22 19:36	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		04/27/22 21:35	04/29/22 19:36	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		04/27/22 21:35	04/29/22 19:36	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		04/27/22 21:35	04/29/22 19:36	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		04/27/22 21:35	04/29/22 19:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*14 - 130*	*04/27/22 21:35*	*04/29/22 19:36*	*1*
Tetrachloro-m-xylene	*65*		*40 - 130*	*04/27/22 21:35*	*04/29/22 19:36*	*1*

Lab Sample ID: LCS 680-718076/3-A
Matrix: Water
Analysis Batch: 718424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 718076

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016, Dissolved			3.00	2.12		ug/L		71	44 - 130		
PCB-1260, Dissolved			3.00	2.40		ug/L		80	35 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*71*		*14 - 130*
Tetrachloro-m-xylene	*70*		*40 - 130*

Lab Sample ID: LCSD 680-718076/4-A
Matrix: Water
Analysis Batch: 718424

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 718076

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016, Dissolved			3.00	2.19		ug/L		73	44 - 130	3	30
PCB-1260, Dissolved			3.00	2.57		ug/L		86	35 - 130	7	40

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCSD 680-718076/4-A
Matrix: Water
Analysis Batch: 718424

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 718076

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*78*		*14 - 130*
Tetrachloro-m-xylene	*70*		*40 - 130*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-715461/1-A
Matrix: Water
Analysis Batch: 715792

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 715461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.010	0.0013	mg/L		04/12/22 17:22	04/13/22 18:41	1
Manganese, Dissolved	<0.010		0.010	0.0013	mg/L		04/12/22 17:22	04/13/22 18:41	1

Lab Sample ID: LCS 680-715461/2-A
Matrix: Water
Analysis Batch: 715792

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 715461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.400	0.355		mg/L		89	80 - 120
Manganese, Dissolved	0.400	0.355		mg/L		89	80 - 120

GC/MS Semi VOA

Prep Batch: 245356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213746-1	OWR-14D	Total/NA	Water	680	
680-213746-2	OWR-14DF	Total/NA	Water	680	
680-213746-3	Field Duplicate 2	Total/NA	Water	680	
680-213746-4	Field Duplicate 2F	Total/NA	Water	680	
680-213746-5	T-18	Total/NA	Water	680	
680-213746-5 - DL	T-18	Total/NA	Water	680	
680-213746-6 - DL	T-18F	Total/NA	Water	680	
680-213746-6	T-18F	Total/NA	Water	680	
MB 410-245356/1-A	Method Blank	Total/NA	Water	680	
LCS 410-245356/2-A	Lab Control Sample	Total/NA	Water	680	
LCSD 410-245356/3-A	Lab Control Sample Dup	Total/NA	Water	680	

Analysis Batch: 245972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213746-1	OWR-14D	Total/NA	Water	680	245356
680-213746-2	OWR-14DF	Total/NA	Water	680	245356
680-213746-3	Field Duplicate 2	Total/NA	Water	680	245356
680-213746-4	Field Duplicate 2F	Total/NA	Water	680	245356
680-213746-5	T-18	Total/NA	Water	680	245356
680-213746-6	T-18F	Total/NA	Water	680	245356
MB 410-245356/1-A	Method Blank	Total/NA	Water	680	245356
LCS 410-245356/2-A	Lab Control Sample	Total/NA	Water	680	245356
LCSD 410-245356/3-A	Lab Control Sample Dup	Total/NA	Water	680	245356

Analysis Batch: 246464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213746-5 - DL	T-18	Total/NA	Water	680	245356
680-213746-6 - DL	T-18F	Total/NA	Water	680	245356

GC Semi VOA

Prep Batch: 716140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213746-1	OWR-14D	Total/NA	Water	3520C	
680-213746-2	OWR-14DF	Dissolved	Water	3520C	
680-213746-3	Field Duplicate 2	Total/NA	Water	3520C	
680-213746-4	Field Duplicate 2F	Dissolved	Water	3520C	
680-213746-5	T-18	Total/NA	Water	3520C	
680-213746-6	T-18F	Dissolved	Water	3520C	
680-213746-7	OWR-3S	Total/NA	Water	3520C	
680-213746-8	WEL-04	Total/NA	Water	3520C	
680-213746-9	T-06	Total/NA	Water	3520C	
680-213746-11	T-06F	Dissolved	Water	3520C	
MB 680-716140/12-A	Method Blank	Total/NA	Water	3520C	
LCS 680-716140/13-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-716140/14-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 716342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213746-1	OWR-14D	Total/NA	Water	8081B/8082A	716140
680-213746-2	OWR-14DF	Dissolved	Water	8081B/8082A	716140

GC Semi VOA (Continued)

Analysis Batch: 716342 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213746-3	Field Duplicate 2	Total/NA	Water	8081B/8082A	716140
680-213746-4	Field Duplicate 2F	Dissolved	Water	8081B/8082A	716140
680-213746-5	T-18	Total/NA	Water	8081B/8082A	716140
680-213746-6	T-18F	Dissolved	Water	8081B/8082A	716140
680-213746-7	OWR-3S	Total/NA	Water	8081B/8082A	716140
680-213746-8	WEL-04	Total/NA	Water	8081B/8082A	716140
680-213746-9	T-06	Total/NA	Water	8081B/8082A	716140
680-213746-11	T-06F	Dissolved	Water	8081B/8082A	716140
MB 680-716140/12-A	Method Blank	Total/NA	Water	8081B/8082A	716140
LCS 680-716140/13-A	Lab Control Sample	Total/NA	Water	8081B/8082A	716140
LCSD 680-716140/14-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	716140

Analysis Batch: 717156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213746-5	T-18	Total/NA	Water	8081B/8082A	716140

Prep Batch: 718076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213746-10	WEL-04F	Dissolved	Water	3520C	
MB 680-718076/2-A	Method Blank	Total/NA	Water	3520C	
LCS 680-718076/3-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-718076/4-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 718424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213746-10	WEL-04F	Dissolved	Water	8081B/8082A	718076
MB 680-718076/2-A	Method Blank	Total/NA	Water	8081B/8082A	718076
LCS 680-718076/3-A	Lab Control Sample	Total/NA	Water	8081B/8082A	718076
LCSD 680-718076/4-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	718076

Metals

Prep Batch: 715461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213746-1	OWR-14D	Total Recoverable	Water	3005A	
680-213746-2	OWR-14DF	Dissolved	Water	3005A	
680-213746-3	Field Duplicate 2	Total Recoverable	Water	3005A	
680-213746-4	Field Duplicate 2F	Dissolved	Water	3005A	
680-213746-8	WEL-04	Total Recoverable	Water	3005A	
680-213746-10	WEL-04F	Dissolved	Water	3005A	
MB 680-715461/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-715461/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 715792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213746-1	OWR-14D	Total Recoverable	Water	6010C	715461
680-213746-2	OWR-14DF	Dissolved	Water	6010C	715461
680-213746-3	Field Duplicate 2	Total Recoverable	Water	6010C	715461
680-213746-4	Field Duplicate 2F	Dissolved	Water	6010C	715461
680-213746-8	WEL-04	Total Recoverable	Water	6010C	715461
680-213746-10	WEL-04F	Dissolved	Water	6010C	715461

Metals (Continued)

Analysis Batch: 715792 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-715461/1-A	Method Blank	Total Recoverable	Water	6010C	715461
LCS 680-715461/2-A	Lab Control Sample	Total Recoverable	Water	6010C	715461

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213746-1

Client Sample ID: OWR-14D

Date Collected: 04/06/22 10:57
Date Received: 04/08/22 10:30

Lab Sample ID: 680-213746-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	680			1019.9 mL	1.0 mL	245356	04/17/22 15:00	CPV9	ELLE
Total/NA	Analysis	680		1			245972	04/19/22 13:41	UAD3	ELLE
	Instrument ID: 21949									
Total/NA	Prep	3520C			978.1 mL	5 mL	716140	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			716342	04/18/22 20:35	JCK	TAL SAV
	Instrument ID: CSGK									
Total Recoverable	Prep	3005A			50 mL	50 mL	715461	04/12/22 17:22	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			715792	04/13/22 19:00	BCB	TAL SAV
	Instrument ID: ICPH									

Client Sample ID: OWR-14DF

Date Collected: 04/06/22 10:57
Date Received: 04/08/22 10:30

Lab Sample ID: 680-213746-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	680			1042.8 mL	1.0 mL	245356	04/17/22 15:00	CPV9	ELLE
Total/NA	Analysis	680		1			245972	04/19/22 14:05	UAD3	ELLE
	Instrument ID: 21949									
Dissolved	Prep	3520C			996.9 mL	5 mL	716140	04/16/22 18:41	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			716342	04/18/22 20:51	JCK	TAL SAV
	Instrument ID: CSGK									
Dissolved	Prep	3005A			50 mL	50 mL	715461	04/12/22 17:22	JE	TAL SAV
Dissolved	Analysis	6010C		1			715792	04/13/22 19:03	BCB	TAL SAV
	Instrument ID: ICPH									

Client Sample ID: Field Duplicate 2

Date Collected: 04/06/22 00:00
Date Received: 04/08/22 10:30

Lab Sample ID: 680-213746-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	680			1015.6 mL	1.0 mL	245356	04/17/22 15:00	CPV9	ELLE
Total/NA	Analysis	680		1			245972	04/19/22 14:30	UAD3	ELLE
	Instrument ID: 21949									
Total/NA	Prep	3520C			1008 mL	5 mL	716140	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			716342	04/18/22 21:07	JCK	TAL SAV
	Instrument ID: CSGK									
Total Recoverable	Prep	3005A			50 mL	50 mL	715461	04/12/22 17:22	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			715792	04/13/22 19:06	BCB	TAL SAV
	Instrument ID: ICPH									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213746-1

Client Sample ID: Field Duplicate 2F

Lab Sample ID: 680-213746-4
Matrix: Water
Date Collected: 04/06/22 00:00
Date Received: 04/08/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	680			1038.3 mL	1.0 mL	245356	04/17/22 15:00	CPV9	ELLE
Total/NA	Analysis	680		1			245972	04/19/22 14:54	UAD3	ELLE
	Instrument ID: 21949									
Dissolved	Prep	3520C			1006.3 mL	5 mL	716140	04/16/22 18:41	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			716342	04/18/22 21:23	JCK	TAL SAV
	Instrument ID: CSGK									
Dissolved	Prep	3005A			50 mL	50 mL	715461	04/12/22 17:22	JE	TAL SAV
Dissolved	Analysis	6010C		1			715792	04/13/22 19:09	BCB	TAL SAV
	Instrument ID: ICPH									

Client Sample ID: T-18

Lab Sample ID: 680-213746-5
Matrix: Water
Date Collected: 04/06/22 16:46
Date Received: 04/08/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	680			1019.3 mL	1.0 mL	245356	04/17/22 15:00	CPV9	ELLE
Total/NA	Analysis	680		1			245972	04/19/22 15:19	UAD3	ELLE
	Instrument ID: 21949									
Total/NA	Prep	680	DL		1019.3 mL	1.0 mL	245356	04/17/22 15:00	CPV9	ELLE
Total/NA	Analysis	680	DL	10			246464	04/20/22 13:10	UAD3	ELLE
	Instrument ID: 21949									
Total/NA	Prep	3520C			1020.9 mL	5 mL	716140	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		5			717156	04/22/22 18:31	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			1020.9 mL	5 mL	716140	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			716342	04/18/22 21:39	JCK	TAL SAV
	Instrument ID: CSGK									

Client Sample ID: T-18F

Lab Sample ID: 680-213746-6
Matrix: Water
Date Collected: 04/06/22 16:46
Date Received: 04/08/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	680			1050.5 mL	1.0 mL	245356	04/17/22 15:00	CPV9	ELLE
Total/NA	Analysis	680		1			245972	04/19/22 15:44	UAD3	ELLE
	Instrument ID: 21949									
Total/NA	Prep	680	DL		1050.5 mL	1.0 mL	245356	04/17/22 15:00	CPV9	ELLE
Total/NA	Analysis	680	DL	10			246464	04/20/22 13:35	UAD3	ELLE
	Instrument ID: 21949									
Dissolved	Prep	3520C			1040.6 mL	5 mL	716140	04/16/22 18:41	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			716342	04/18/22 21:55	JCK	TAL SAV
	Instrument ID: CSGK									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213746-1

Client Sample ID: OWR-3S
Date Collected: 04/06/22 10:33
Date Received: 04/08/22 10:30

Lab Sample ID: 680-213746-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1028.1 mL	5 mL	716140	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			716342	04/18/22 22:10	JCK	TAL SAV
	Instrument ID: CSGK									

Client Sample ID: WEL-04
Date Collected: 04/06/22 13:48
Date Received: 04/08/22 10:30

Lab Sample ID: 680-213746-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1014 mL	5 mL	716140	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			716342	04/18/22 22:26	JCK	TAL SAV
	Instrument ID: CSGK									
Total Recoverable	Prep	3005A			50 mL	50 mL	715461	04/12/22 17:22	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			715792	04/13/22 19:12	BCB	TAL SAV
	Instrument ID: ICPH									

Client Sample ID: T-06
Date Collected: 04/06/22 16:14
Date Received: 04/08/22 10:30

Lab Sample ID: 680-213746-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1016.8 mL	5 mL	716140	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			716342	04/18/22 22:42	JCK	TAL SAV
	Instrument ID: CSGK									

Client Sample ID: WEL-04F
Date Collected: 04/06/22 13:48
Date Received: 04/08/22 10:30

Lab Sample ID: 680-213746-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1002.2 mL	5 mL	718076	04/27/22 21:35	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			718424	04/29/22 20:18	GEM	TAL SAV
	Instrument ID: CSGAA									
Dissolved	Prep	3005A			50 mL	50 mL	715461	04/12/22 17:22	JE	TAL SAV
Dissolved	Analysis	6010C		1			715792	04/13/22 19:15	BCB	TAL SAV
	Instrument ID: ICPH									

Client Sample ID: T-06F
Date Collected: 04/06/22 16:14
Date Received: 04/08/22 10:30

Lab Sample ID: 680-213746-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			996.8 mL	5 mL	716140	04/16/22 18:41	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			716342	04/18/22 23:14	JCK	TAL SAV
	Instrument ID: CSGK									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213746-1

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Job ID: 680-213746-1
Project/Site: Anniston CERCLA April 2022

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-22

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-22
A2LA	ISO/IEC 17025	0001.01	11-30-22
Alaska	State	PA00009	06-30-22
Alaska (UST)	State	17-027	02-28-23
Arizona	State	AZ0780	03-12-23
Arkansas DEQ	State	88-0660	08-10-22
California	State	2792	02-02-22 *
Colorado	State	PA00009	06-30-22
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-23
Delaware (DW)	State	N/A	01-31-23
Florida	NELAP	E87997	06-30-22
Georgia (DW)	State	C048	01-31-22 *
Hawaii	State	N/A	01-31-23
Illinois	NELAP	200027	01-31-23
Iowa	State	361	03-02-22 *
Kansas	NELAP	E-10151	10-31-22
Kentucky (DW)	State	KY90088	12-31-22
Kentucky (UST)	State	1.01	11-30-22
Kentucky (WW)	State	KY90088	01-01-23
Louisiana	NELAP	02055	06-30-22
Maine	State	2019012	03-12-23
Maryland	State	100	06-30-22
Massachusetts	State	M-PA009	06-30-22
Michigan	State	9930	01-31-23
Minnesota	NELAP	042-999-487	12-31-22
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-23
Montana (UST)	State	<cert No.>	02-01-23
Nebraska	State	NE-OS-32-17	01-31-23
New Hampshire	NELAP	2730	01-10-23
New Jersey	NELAP	PA011	06-30-22
New York	NELAP	10670	04-01-23
North Carolina (DW)	State	42705	07-31-22
North Carolina (WW/SW)	State	521	12-31-22
North Dakota	State	R-205	01-31-23
Oklahoma	NELAP	R-205	08-31-22
Oregon	NELAP	PA200001	09-11-22
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-23
Rhode Island	State	LAO00338	12-30-22
South Carolina	State	89002	01-31-23
Tennessee	State	02838	01-31-23
Texas	NELAP	T104704194-21-40	08-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Job ID: 680-213746-1
Project/Site: Anniston CERCLA April 2022

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USDA	US Federal Programs	P330-19-00197	07-03-22
Vermont	State	VT - 36037	10-28-22
Virginia	NELAP	460182	06-14-22
Washington	State	C457	04-12-22 *
West Virginia (DW)	State	9906 C	12-31-22
West Virginia DEP	State	055	05-16-23
Wyoming	State	8TMS-L	01-31-23
Wyoming (UST)	A2LA	1.01	11-30-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213746-1

Method	Method Description	Protocol	Laboratory
680	Polychlorinated Biphenyls by GCMS	EPA	ELLE
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL SAV
680	Polychlorinated Biphenyls by GCMS Preparation for Liquids	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: JA, EGK, AJV	Lab PM: Weinberg Amy	Carrier Tracking No(s):	COC No: 680-134402-49188 3
Client Contact: Jessica Alanis	Phone:	E-Mail: amy.weinberg@Eurofinset.com	State of Origin:	Page: ~~Page 3 of 4~~ Page 1 of 1
Company: GSI Environmental Inc	PWSID:			Job #: 6123
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			
City: Houston	TAT Requested (days): Standard			
State, Zip: TX, 77098-4044	Compliance Project: Δ Yes Δ No			
Phone: 713-522-6300(Tel)	PO #: ~~45008635~~ 79200722			
Email: JAlanis@gsi-net.com wbsmith@gsi-net.com	WO #:			
Project Name: Anniston CERCLA April 2022	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL	M - Hexane
B - NaOH	N None
C - Zn Acetate	O AsNaO2
D - Nitric Acid	P Na2O4S
E NaHSO4	Q Na2SO3
F - MeOH	R Na2S2O3
G Amchlor	S H2SO4
H - Ascorbic Acid	T TSP Dodecahydrate
I Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W pH 4-5
L EDA	Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A D	8260B Trichloroethene A	8081B_8082A - PCB N	8081B_8082A - (MOD) Dissolved PCBs Field Filtered N	6010C - (MOD) Cobalt/Manganese D	680 - PCB Homologs N	6010C Manganese D	8141B Parathion N	8270D (MOD) 4-NP N	6010C (MOD) Cobalt/Manganese FF D	680 - Dissolved PCB Homologs Field Filtered N	6010C (MOD) Manganese - Field Filtered D	8270D SVOC N	Total Number of containers	Special Instructions/Note.
			Preservation Code:																		
OWR-14D	4/6/22	1057	G	Water					X			X	X							5	
OWR-14DF		1057		Water	X				X			X	X							5	
Field Duplicate 2		—		Water					X			X	X							5	
Field Duplicate 2F		—		Water	X				X			X	X							5	
T-1B		1646		Water					X			X									
T-1BF		1646		Water	X				X			X									
OWR-35		1033		Water					X												
WEL-04		1348		Water					X				X								
T-06		1614		Water					X											2	
WEL-04 F		1348		Water	X				X				X							3	
T-06F	↓	1614	↓	Water	X				X											2	

680-213746 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify): Level II

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Jessica Alanis	4/7/22	GSI			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4/8 1030	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.
		1.4/0.8, 2.6/2.0/3.2/2.6 13/6.7

Ver: 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Weinberg, Amy	Carrier Tracking No(s):	COC No: 680-689687.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: amy.weinberg@et.eurofinsus.com	State of Origin: Alabama	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Env, LLC		Accreditations Required (See note): State Program - Alabama		Job #: 680-213746-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 4/21/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Anniston CERCLA April 2022	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	680/680_P_Liquid PCB Homologs	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
OWR-14D (680-213746-1)	4/6/22	10:57 Central		Water			X	2	
OWR-14DF (680-213746-2)	4/6/22	10:57 Central		Water			X	2	
Field Duplicate 2 (680-213746-3)	4/6/22	Central		Water			X	2	
Field Duplicate 2F (680-213746-4)	4/6/22	Central		Water			X	2	
T-18 (680-213746-5)	4/6/22	16:46 Central		Water			X	2	
T-18F (680-213746-6)	4/6/22	16:46 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/8 1700				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4/9/22 1021	Company: EUK

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4 3.3

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-213746-1

Login Number: 213746
List Number: 1
Creator: Hartley, Tyler

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-213746-1

Login Number: 213746
List Number: 2
Creator: McCaskey, Jonathan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 04/09/22 11:46 AM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: CERCLA Groundwater Monitoring Project Number: 680-213810-1
Reviewer: Jessica Alanis Validation Date: 03 August 2022

Laboratory: Eurofins TestAmerica Savannah SDG #: 680-213810-1
Analytical Method (type and no.): SVOCS (8270D), PCBs (8081B/8082A), Pesticides (8141B), PCB Homologs (680)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: T-09, T-09F, Field Duplicate 3, OWR-13, OWR-13F, T-10, T-20, T-20F, OWR-11, OWR-11F

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?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	Field Duplicate 3 (original sample T-09)
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☐	☒	☐	Temperature correction for ORP standard value incorrectly calculated. Correct value at 18.3°C is 237 mV but was calculated and calibrated to 215 mV (9% too low) for YSI serial number c2207 (used during purging and sampling of T-20) and was calculated and calibrated to 252 mV (6% too high) for YSI serial number c2202 (used during purging and sampling of OWR-11). Incorrect ORP measurements for these two wells are not expected to impact the laboratory analytical data quality; therefore, no results are qualified on this basis. Additionally, for YSI serial number c2202, the calibration form indicates "fail" for the dissolved oxygen (DO) calibration, but the instrument was calibrated to the proper 9.66 mg/L value as indicated by the "calibrate" note, and per personal communication with the field staff member who performed the calibration. Staff member has been instructed to record in the future the instrument response that indicates the instrument has been calibrated to the calibration standard value.
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☒	☐	☐	

Note Deficiencies: The RPD between the primary and confirmation column exceeded control limits in surrogates of Method 8081B/8082A for samples T-09F, OWR-13, OWR-11, and OWR-11F; however, all recoveries were within acceptance limits, so no qualification is required.

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☒	☐	☐	For sample OWR-11, PCB-1221 and PCB-1248 both had a dilution factor of DL=25. For sample OWR-11F, PCB-1221 had a dilution factor of DL=10.
g) Were any matrix problems noted?	☒	☐	☐	For analysis of Parathion by Method 8141B, sample T-10 required 0.25 mL of acid to reach the desired pH. The case narrative indicated that most samples take less than 0 mL to reach the desired pH range. No result is qualified on this basis.

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☐	☒	☐	See further discussion below in "Duplicates (d)" – the LCSD for PCB-1016 for Method 8081B/8082A recovery (42%) was below the lower control limit (44%). All other LCS and LCSD recoveries met the accuracy criteria.

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?				Original = T-09
	☒	☐	☐	Duplicate = Field Duplicate 3
b) Were field dup. precision criteria met (note RPD)?	☒	☐	☐	PCB-1248 = 8%, PCB-1254 = 10%
c) Were lab duplicates analyzed (note original and duplicate samples)?				Multiple LCSDs
	☒	☐	☐	
d) Were lab dup. precision criteria met (note RPD)?	☐	☒	☐	Except for the RPD for PCB-1016 by Method 8081B/8082A (68%), all other LCS/LCSDs RPDs (≤ 26%) met precision criteria of ≤ 50%. The lab noted that "The LCSD had a very low volume of solvent after the 18-hour extraction process which is the cause of the failures. This issue was isolated only to the LCSD. The LCS passed all control limits. Re-extraction would have been outside of holding time." As such, all PCB-1016 results, which were non-detect for the entire sample group (T-09, T-09F, Field Duplicate 3, OWR-13, OWR-13F, T-10, T-20, T-20F, OWR-11, OWR-11F), are qualified as estimated (UJ).

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☐	☒	

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☐	☒	☐	Tetrachloro-m-xylene (TCX) recovered low (below the lab standard of 40%) for sample LCSD (12%) for Aroclor analysis by Method 8081B/8082A, but greater than the "expanded lower acceptance limit" (10%) specified in the National Functional Guidelines for Organic Superfund Methods Data Review (NFG, 2020). The case narrative stated that "The LCSD had a very low volume of solvent after the 18-hour extraction process which is the cause of the failures. This issue was isolated only to the LCSD. The LCS passed all control limits. Re-extraction would have been outside of holding time." However, all other TCX surrogate recoveries in the LCS and 10 original samples were within limits, therefore no data are qualified on this basis.
b) Were surrogate recoveries not calculated due to dilutions?	☐	☒	☐	

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
T-09	PCB-1016	<0.5 ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria
T-09F	PCB-1016	<0.5 ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria
Field Duplicate 3	PCB-1016	<0.5 ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria
OWR-11	PCB-1016	<0.5 ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria
OWR-11F	PCB-1016	<0.5 ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria
T-10	PCB-1016	<0.5 ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria
T-20	PCB-1016	<0.5 ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria
T-20F	PCB-1016	<0.5 ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria
OWR-13	PCB-1016	<0.5 ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria
OWR-13F	PCB-1016	<0.5 ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria

Signature: Jessica Adams

Date: 03 August 2022

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: CERCLA Groundwater Monitoring Project Number: 680-213810-1
Reviewer: Jessica Alanis Validation Date: 03 August 2022

Laboratory: Eurofins TestAmerica Savannah SDG #: 680-213810-1
Analytical Method (type and no.): Metals (6010C), Mercury (7470A)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: T-20, T-20F, OWR-11, OWR-11F

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?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☐	☒	☐	
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☐	☒	☐	Temperature correction for ORP standard value incorrectly calculated. Correct value at 18.3°C is 237 mV but was calculated and calibrated to 215 mV (9% too low) for YSI serial number c2207 (used during purging and sampling of T-20) and was calculated and calibrated to 252 mV (6% too high) for YSI serial number c2202 (used during purging and sampling of OWR-11). Incorrect ORP measurements for these two wells are not expected to impact the laboratory analytical data quality; therefore, no results are qualified on this basis. Additionally, for YSI serial number c2202, the calibration form indicates "fail" for the dissolved oxygen (DO) calibration, but the instrument was calibrated to the proper 9.66 mg/L value as indicated by the "calibrate" note, and per personal communication with the field staff member who performed the calibration. Staff member has been instructed to record in the future the instrument response that indicates the instrument has been calibrated to the calibration standard value.
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	

Note Deficiencies: _____

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☐	☒	☐	
g) Were any matrix problems noted?	☐	☒	☐	

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?				
	☐	☒	☐	
b) Were field dup. precision criteria met (note RPD)?	☐	☐	☒	
c) Were lab duplicates analyzed (note original and duplicate samples)?				
	☐	☒	☐	
d) Were lab dup. precision criteria met (note RPD)?	☐	☐	☒	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☒	☐	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☒	☐	Note that the analyte concentration in the original sample is more than four times greater than the spike concentration. All applicable recovery limits were met.
b) Was MSD accuracy criteria met?	☒	☐	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☒	☐	Note that the analyte concentration in the original sample is more than four times greater than the spike concentration. All applicable recovery limits were met.
Were MS/MSD precision criteria met?	☒	☐	☐	

Comments/Notes:
No data requires qualification.

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: Jessica Adams Date: 03 August 2022

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ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-213810-1
Client Project/Site: Anniston CERCLA April 2022

For:
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Attn: Ben Smith

Amy Weinberg

Authorized for release by:
4/27/2022 4:50:44 PM

Amy Weinberg, Project Manager II
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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213810-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213810-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-213810-1	T-09	Water	04/07/22 10:03	04/09/22 10:00
680-213810-2	T-09F	Water	04/07/22 10:03	04/09/22 10:00
680-213810-3	Field Duplicate 3	Water	04/07/22 12:00	04/09/22 10:00
680-213810-4	OWR-13	Water	04/07/22 09:48	04/09/22 10:00
680-213810-5	OWR-13F	Water	04/07/22 09:48	04/09/22 10:00
680-213810-6	T-10	Water	04/07/22 11:23	04/09/22 10:00
680-213810-7	T-20	Water	04/07/22 15:35	04/09/22 10:00
680-213810-8	T-20F	Water	04/07/22 15:35	04/09/22 10:00
680-213810-9	OWR-11	Water	04/07/22 16:42	04/09/22 10:00
680-213810-10	OWR-11F	Water	04/07/22 16:42	04/09/22 10:00

Job ID: 680-213810-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-213810-1

Comments
No additional comments.

Receipt
The samples were received on 4/9/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.2º C, 0.8º C, 1.3º C, 2.1º C and 2.8º C.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 3520C: The LCSD solvent volume was low after being extracted.T-09 (680-213810-1), T-09F (680-213810-2), Field Duplicate 3 (680-213810-3), OWR-13 (680-213810-4), OWR-13F (680-213810-5), T-10 (680-213810-6), T-20 (680-213810-7), T-20F (680-213810-8), OWR-11 (680-213810-9) and OWR-11F (680-213810-10)

Method 8081B/8082A: The laboratory control sample duplicate (LCSD) for preparation batch 680-716141 and analytical batch 680-716504 recovered outside control limits for the following analytes: <AffectedAnalytes>. The LCSD had a very low volume of solvent after the 18 hour extraction process which is the cause of the failures. This issue was isolated only to the LCSD. The LCS passed all control limits. Re-extraction would have been outside of holding time.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: During pH adjustment, the following samples required 0.25 mL of acid to reach the desired pH: T-10 (680-213810-6). Most samples take less than 0 mL to reach the desired range preparation batch 280-571829. Method: 8141B

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: T-09

Date Collected: 04/07/22 10:03
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213810-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		04/14/22 20:00	04/19/22 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*32 - 113*	*04/14/22 20:00*	*04/19/22 21:41*	*1*
2-Fluorophenol	*53*		*26 - 109*	*04/14/22 20:00*	*04/19/22 21:41*	*1*
Nitrobenzene-d5	*73*		*32 - 118*	*04/14/22 20:00*	*04/19/22 21:41*	*1*
Phenol-d5	*49*		*27 - 110*	*04/14/22 20:00*	*04/19/22 21:41*	*1*
Terphenyl-d14	*59*		*10 - 126*	*04/14/22 20:00*	*04/19/22 21:41*	*1*
2,4,6-Tribromophenol	*73*		*39 - 124*	*04/14/22 20:00*	*04/19/22 21:41*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50	*- *1	0.50	0.087	ug/L		04/16/22 18:41	04/19/22 18:59	1
PCB-1221	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 18:59	1
PCB-1232	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 18:59	1
PCB-1242	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 18:59	1
PCB-1248	**3.7**		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 18:59	1
PCB-1254	**0.89**		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 18:59	1
PCB-1260	<0.50		0.50	0.058	ug/L		04/16/22 18:41	04/19/22 18:59	1
PCB-1268	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*14 - 130*	*04/16/22 18:41*	*04/19/22 18:59*	*1*
Tetrachloro-m-xylene	*60*		*40 - 130*	*04/16/22 18:41*	*04/19/22 18:59*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/14/22 16:50	04/15/22 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*93*		*60 - 154*	*04/14/22 16:50*	*04/15/22 23:33*	*1*

Client Sample ID: T-09F

Date Collected: 04/07/22 10:03
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213810-2

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50	*- *1	0.50	0.089	ug/L		04/16/22 18:41	04/19/22 19:15	1
PCB-1221, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 19:15	1
PCB-1232, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 19:15	1
PCB-1242, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 19:15	1
PCB-1248, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 19:15	1
PCB-1254, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 19:15	1
PCB-1260, Dissolved	<0.50		0.50	0.059	ug/L		04/16/22 18:41	04/19/22 19:15	1
PCB-1268, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*27*	*p*	*14 - 130*	*04/16/22 18:41*	*04/19/22 19:15*	*1*
Tetrachloro-m-xylene	*51*	*p*	*40 - 130*	*04/16/22 18:41*	*04/19/22 19:15*	*1*

Client Sample ID: Field Duplicate 3

Date Collected: 04/07/22 12:00
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213810-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		04/14/22 20:00	04/19/22 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*32 - 113*	*04/14/22 20:00*	*04/19/22 22:07*	*1*
2-Fluorophenol	*49*		*26 - 109*	*04/14/22 20:00*	*04/19/22 22:07*	*1*
Nitrobenzene-d5	*67*		*32 - 118*	*04/14/22 20:00*	*04/19/22 22:07*	*1*
Phenol-d5	*51*		*27 - 110*	*04/14/22 20:00*	*04/19/22 22:07*	*1*
Terphenyl-d14	*66*		*10 - 126*	*04/14/22 20:00*	*04/19/22 22:07*	*1*
2,4,6-Tribromophenol	*74*		*39 - 124*	*04/14/22 20:00*	*04/19/22 22:07*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50	*- *1	0.50	0.088	ug/L		04/16/22 18:41	04/19/22 19:31	1
PCB-1221	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 19:31	1
PCB-1232	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 19:31	1
PCB-1242	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 19:31	1
PCB-1248	**4.0**		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 19:31	1
PCB-1254	**0.98**		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 19:31	1
PCB-1260	<0.50		0.50	0.059	ug/L		04/16/22 18:41	04/19/22 19:31	1
PCB-1268	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*112*		*14 - 130*	*04/16/22 18:41*	*04/19/22 19:31*	*1*
Tetrachloro-m-xylene	*60*		*40 - 130*	*04/16/22 18:41*	*04/19/22 19:31*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/14/22 16:50	04/16/22 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*87*		*60 - 154*	*04/14/22 16:50*	*04/16/22 00:12*	*1*

Client Sample ID: OWR-13

Date Collected: 04/07/22 09:48
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213810-4
Matrix: Water

Method: 680 - Polychlorinated Biphenyls by GCMS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	<0.50		0.50	0.19	ug/L		04/17/22 15:00	04/20/22 12:46	1
Total Dichlorobiphenyls	<0.10		0.10	0.019	ug/L		04/17/22 15:00	04/20/22 12:46	1
Total Heptachlorobiphenyls	<0.30		0.30	0.039	ug/L		04/17/22 15:00	04/20/22 12:46	1
Total Hexachlorobiphenyls	**0.39**		0.20	0.029	ug/L		04/17/22 15:00	04/20/22 12:46	1
Total Monochlorobiphenyls	<0.10		0.10	0.019	ug/L		04/17/22 15:00	04/20/22 12:46	1
Total Nonachlorobiphenyls	<0.50		0.50	0.19	ug/L		04/17/22 15:00	04/20/22 12:46	1
Total Octachlorobiphenyls	<0.30		0.30	0.049	ug/L		04/17/22 15:00	04/20/22 12:46	1
Total Pentachlorobiphenyls	**2.2**		0.20	0.029	ug/L		04/17/22 15:00	04/20/22 12:46	1
Total Tetrachlorobiphenyls	**3.1**		0.20	0.029	ug/L		04/17/22 15:00	04/20/22 12:46	1
Total Trichlorobiphenyls	**0.16**		0.10	0.019	ug/L		04/17/22 15:00	04/20/22 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-138L	*69*		*39 - 131*	*04/17/22 15:00*	*04/20/22 12:46*	*1*

Client Sample ID: OWR-13

Date Collected: 04/07/22 09:48
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213810-4

Matrix: Water

Method: 680 - Polychlorinated Biphenyls by GCMS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-52L	*64*		*42 - 105*	*04/17/22 15:00*	*04/20/22 12:46*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50	*- *1	0.50	0.087	ug/L		04/16/22 18:41	04/19/22 19:47	1
PCB-1221	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 19:47	1
PCB-1232	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 19:47	1
PCB-1242	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 19:47	1
PCB-1248	**5.3**	**p**	0.50	0.087	ug/L		04/16/22 18:41	04/19/22 19:47	1
PCB-1254	**5.9**		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 19:47	1
PCB-1260	<0.50		0.50	0.058	ug/L		04/16/22 18:41	04/19/22 19:47	1
PCB-1268	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*	*p*	*14 - 130*	*04/16/22 18:41*	*04/19/22 19:47*	*1*
Tetrachloro-m-xylene	*50*		*40 - 130*	*04/16/22 18:41*	*04/19/22 19:47*	*1*

Client Sample ID: OWR-13F

Date Collected: 04/07/22 09:48
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213810-5

Matrix: Water

Method: 680 - Polychlorinated Biphenyls by GCMS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	<0.10		0.10	0.019	ug/L		04/17/22 15:00	04/19/22 16:33	1
Total Heptachlorobiphenyls	<0.30		0.30	0.038	ug/L		04/17/22 15:00	04/19/22 16:33	1
Total Hexachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 16:33	1
Total Monochlorobiphenyls	<0.10		0.10	0.019	ug/L		04/17/22 15:00	04/19/22 16:33	1
Total Nonachlorobiphenyls	<0.50		0.50	0.19	ug/L		04/17/22 15:00	04/19/22 16:33	1
Total Octachlorobiphenyls	<0.30		0.30	0.048	ug/L		04/17/22 15:00	04/19/22 16:33	1
Total Pentachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 16:33	1
Total Tetrachlorobiphenyls	**0.24**		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 16:33	1
Total Trichlorobiphenyls	<0.10		0.10	0.019	ug/L		04/17/22 15:00	04/19/22 16:33	1
DCB Decachlorobiphenyl	<0.50		0.50	0.19	ug/L		04/17/22 15:00	04/19/22 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-52L	*60*		*42 - 105*	*04/17/22 15:00*	*04/19/22 16:33*	*1*
PCB-138L	*64*		*39 - 131*	*04/17/22 15:00*	*04/19/22 16:33*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50	*- *1	0.50	0.087	ug/L		04/16/22 18:41	04/19/22 20:02	1
PCB-1221, Dissolved	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 20:02	1
PCB-1232, Dissolved	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 20:02	1
PCB-1242, Dissolved	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 20:02	1
PCB-1248, Dissolved	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 20:02	1
PCB-1254, Dissolved	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 20:02	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		04/16/22 18:41	04/19/22 20:02	1
PCB-1268, Dissolved	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*14 - 130*	*04/16/22 18:41*	*04/19/22 20:02*	*1*

Client Sample ID: OWR-13F

Lab Sample ID: 680-213810-5
Date Collected: 04/07/22 09:48
Matrix: Water
Date Received: 04/09/22 10:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*63*		*40 - 130*	*04/16/22 18:41*	*04/19/22 20:02*	*1*

Client Sample ID: T-10

Lab Sample ID: 680-213810-6
Date Collected: 04/07/22 11:23
Matrix: Water
Date Received: 04/09/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		04/14/22 20:00	04/19/22 22:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*76*		*32 - 113*	*04/14/22 20:00*	*04/19/22 22:33*	*1*
2-Fluorophenol	*57*		*26 - 109*	*04/14/22 20:00*	*04/19/22 22:33*	*1*
Nitrobenzene-d5	*73*		*32 - 118*	*04/14/22 20:00*	*04/19/22 22:33*	*1*
Phenol-d5	*63*		*27 - 110*	*04/14/22 20:00*	*04/19/22 22:33*	*1*
Terphenyl-d14	*42*		*10 - 126*	*04/14/22 20:00*	*04/19/22 22:33*	*1*
2,4,6-Tribromophenol	*74*		*39 - 124*	*04/14/22 20:00*	*04/19/22 22:33*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50	*- *1	0.50	0.090	ug/L		04/16/22 18:41	04/19/22 20:18	1
PCB-1221	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 20:18	1
PCB-1232	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 20:18	1
PCB-1242	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 20:18	1
PCB-1248	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 20:18	1
PCB-1254	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 20:18	1
PCB-1260	<0.50		0.50	0.060	ug/L		04/16/22 18:41	04/19/22 20:18	1
PCB-1268	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*61*		*14 - 130*	*04/16/22 18:41*	*04/19/22 20:18*	*1*
Tetrachloro-m-xylene	*63*		*40 - 130*	*04/16/22 18:41*	*04/19/22 20:18*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/14/22 16:50	04/16/22 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*62*		*60 - 154*	*04/14/22 16:50*	*04/16/22 00:51*	*1*

Client Sample ID: T-20

Lab Sample ID: 680-213810-7
Date Collected: 04/07/22 15:35
Matrix: Water
Date Received: 04/09/22 10:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50	*- *1	0.50	0.088	ug/L		04/16/22 18:41	04/19/22 20:34	1
PCB-1221	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 20:34	1
PCB-1232	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 20:34	1
PCB-1242	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 20:34	1

Client Sample ID: T-20

Lab Sample ID: 680-213810-7

Date Collected: 04/07/22 15:35
Matrix: Water
Date Received: 04/09/22 10:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	**2.1**		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 20:34	1
PCB-1254	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 20:34	1
PCB-1260	<0.50		0.50	0.059	ug/L		04/16/22 18:41	04/19/22 20:34	1
PCB-1268	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*14 - 130*	*04/16/22 18:41*	*04/19/22 20:34*	*1*
Tetrachloro-m-xylene	*57*		*40 - 130*	*04/16/22 18:41*	*04/19/22 20:34*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**2.2**		0.010	0.0013	mg/L		04/13/22 10:09	04/13/22 19:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/14/22 18:01	04/15/22 19:15	1

Client Sample ID: T-20F

Lab Sample ID: 680-213810-8

Date Collected: 04/07/22 15:35
Matrix: Water
Date Received: 04/09/22 10:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50	*- *1	0.50	0.088	ug/L		04/16/22 18:41	04/19/22 20:50	1
PCB-1221, Dissolved	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 20:50	1
PCB-1232, Dissolved	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 20:50	1
PCB-1242, Dissolved	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 20:50	1
PCB-1248, Dissolved	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 20:50	1
PCB-1254, Dissolved	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 20:50	1
PCB-1260, Dissolved	<0.50		0.50	0.059	ug/L		04/16/22 18:41	04/19/22 20:50	1
PCB-1268, Dissolved	<0.50		0.50	0.088	ug/L		04/16/22 18:41	04/19/22 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*38*		*14 - 130*	*04/16/22 18:41*	*04/19/22 20:50*	*1*
Tetrachloro-m-xylene	*61*		*40 - 130*	*04/16/22 18:41*	*04/19/22 20:50*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**2.1**		0.010	0.0013	mg/L		04/13/22 10:09	04/13/22 20:03	1

Client Sample ID: OWR-11

Lab Sample ID: 680-213810-9

Date Collected: 04/07/22 16:42
Matrix: Water
Date Received: 04/09/22 10:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50	*- *1	0.50	0.087	ug/L		04/16/22 18:41	04/19/22 21:06	1
PCB-1221	**170**		2.2	2.2	ug/L		04/16/22 18:41	04/19/22 21:22	25
PCB-1232	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 21:06	1
PCB-1242	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 21:06	1
PCB-1248	**70**		2.2	2.2	ug/L		04/16/22 18:41	04/19/22 21:22	25

Client Sample ID: OWR-11

Date Collected: 04/07/22 16:42
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213810-9

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 21:06	1
PCB-1260	<0.50		0.50	0.058	ug/L		04/16/22 18:41	04/19/22 21:06	1
PCB-1268	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*	*p*	*14 - 130*	*04/16/22 18:41*	*04/19/22 21:06*	*1*
Tetrachloro-m-xylene	*72*		*40 - 130*	*04/16/22 18:41*	*04/19/22 21:06*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	**0.14**		0.010	0.0014	mg/L		04/13/22 10:09	04/13/22 20:06	1
Manganese	**2.6**		0.010	0.0013	mg/L		04/13/22 10:09	04/13/22 20:06	1

Client Sample ID: OWR-11F

Date Collected: 04/07/22 16:42
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213810-10

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50	*- *1	0.50	0.089	ug/L		04/16/22 18:41	04/19/22 21:38	1
PCB-1221, Dissolved	**9.6**		0.89	0.89	ug/L		04/16/22 18:41	04/19/22 21:53	10
PCB-1232, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 21:38	1
PCB-1242, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 21:38	1
PCB-1248, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 21:38	1
PCB-1254, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 21:38	1
PCB-1260, Dissolved	<0.50		0.50	0.059	ug/L		04/16/22 18:41	04/19/22 21:38	1
PCB-1268, Dissolved	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*45*	*p*	*14 - 130*	*04/16/22 18:41*	*04/19/22 21:38*	*1*
Tetrachloro-m-xylene	*70*		*40 - 130*	*04/16/22 18:41*	*04/19/22 21:38*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	**0.14**		0.010	0.0014	mg/L		04/13/22 10:09	04/13/22 20:08	1
Manganese, Dissolved	**2.7**		0.010	0.0013	mg/L		04/13/22 10:09	04/13/22 20:08	1

Method: 680 - Polychlorinated Biphenyls by GCMS

Lab Sample ID: MB 410-245356/1-A
Matrix: Water
Analysis Batch: 245972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245356

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	<0.10		0.10	0.020	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Heptachlorobiphenyls	<0.30		0.30	0.040	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Hexachlorobiphenyls	<0.20		0.20	0.030	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Monochlorobiphenyls	<0.10		0.10	0.020	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Nonachlorobiphenyls	<0.50		0.50	0.20	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Octachlorobiphenyls	<0.30		0.30	0.050	ug/L		04/17/22 15:00	04/19/22 12:26	1
DCB Decachlorobiphenyl	<0.50		0.50	0.20	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Pentachlorobiphenyls	<0.20		0.20	0.030	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Tetrachlorobiphenyls	<0.20		0.20	0.030	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Trichlorobiphenyls	<0.10		0.10	0.020	ug/L		04/17/22 15:00	04/19/22 12:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-52L	*61*		*42 - 105*	*04/17/22 15:00*	*04/19/22 12:26*	*1*
PCB-138L	*70*		*39 - 131*	*04/17/22 15:00*	*04/19/22 12:26*	*1*

Lab Sample ID: LCS 410-245356/2-A
Matrix: Water
Analysis Batch: 245972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245356

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dichlorobiphenyls	1.25	0.850		ug/L		68	37 - 100
Total Heptachlorobiphenyls	3.76	2.67		ug/L		71	47 - 115
Total Hexachlorobiphenyls	2.51	1.78		ug/L		71	48 - 115
Total Monochlorobiphenyls	1.25	0.821		ug/L		66	33 - 91
Total Octachlorobiphenyls	3.75	2.68		ug/L		71	50 - 115
DCB Decachlorobiphenyl	6.28	5.10		ug/L		81	52 - 119
Total Pentachlorobiphenyls	2.50	1.73		ug/L		69	49 - 111
Total Tetrachlorobiphenyls	2.50	1.78		ug/L		71	41 - 96
Total Trichlorobiphenyls	1.26	0.896		ug/L		71	37 - 96

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-52L	*68*		*42 - 105*
PCB-138L	*67*		*39 - 131*

Lab Sample ID: LCSD 410-245356/3-A
Matrix: Water
Analysis Batch: 245972

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 245356

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dichlorobiphenyls	1.25	0.884		ug/L		71	37 - 100	4	30
Total Heptachlorobiphenyls	3.76	2.69		ug/L		72	47 - 115	1	30
Total Hexachlorobiphenyls	2.51	1.85		ug/L		74	48 - 115	4	30
Total Monochlorobiphenyls	1.25	0.820		ug/L		66	33 - 91	0	30
Total Octachlorobiphenyls	3.75	2.82		ug/L		75	50 - 115	5	30
DCB Decachlorobiphenyl	6.28	5.17		ug/L		82	52 - 119	1	30
Total Pentachlorobiphenyls	2.50	1.82		ug/L		73	49 - 111	5	30
Total Tetrachlorobiphenyls	2.50	1.80		ug/L		72	41 - 96	1	30
Total Trichlorobiphenyls	1.26	0.884		ug/L		70	37 - 96	1	30

Method: 680 - Polychlorinated Biphenyls by GCMS (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
PCB-52L	68		42 - 105
PCB-138L	70		39 - 131

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-715834/15-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 716544 — **Prep Batch: 715834**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		04/14/22 20:00	04/19/22 19:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		32 - 113	04/14/22 20:00	04/19/22 19:31	1
2-Fluorophenol	53		26 - 109	04/14/22 20:00	04/19/22 19:31	1
Nitrobenzene-d5	73		32 - 118	04/14/22 20:00	04/19/22 19:31	1
Phenol-d5	53		27 - 110	04/14/22 20:00	04/19/22 19:31	1
Terphenyl-d14	85		10 - 126	04/14/22 20:00	04/19/22 19:31	1
2,4,6-Tribromophenol	78		39 - 124	04/14/22 20:00	04/19/22 19:31	1

Lab Sample ID: LCS 680-715834/16-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 716544 — **Prep Batch: 715834**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4-Nitrophenol			200	164		ug/L		82	44 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	69		32 - 113
2-Fluorophenol	62		26 - 109
Nitrobenzene-d5	72		32 - 118
Phenol-d5	66		27 - 110
Terphenyl-d14	88		10 - 126
2,4,6-Tribromophenol	80		39 - 124

Lab Sample ID: LCSD 680-715834/17-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 716544 — **Prep Batch: 715834**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitrophenol			200	163		ug/L		82	44 - 130	0	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	68		32 - 113
2-Fluorophenol	63		26 - 109
Nitrobenzene-d5	70		32 - 118
Phenol-d5	66		27 - 110
Terphenyl-d14	89		10 - 126
2,4,6-Tribromophenol	80		39 - 124

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-716141/17-A
Matrix: Water
Analysis Batch: 716504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1221	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1232	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1242	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1248	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1254	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1260	<0.50		0.50	0.060	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1268	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*109*		*14 - 130*	*04/16/22 18:41*	*04/19/22 18:11*	*1*
Tetrachloro-m-xylene	*57*		*40 - 130*	*04/16/22 18:41*	*04/19/22 18:11*	*1*

Lab Sample ID: LCS 680-716141/18-A
Matrix: Water
Analysis Batch: 716504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716141

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	3.00	2.57		ug/L		86	44 - 130
PCB-1016, Dissolved	3.00	2.57		ug/L		86	44 - 130
PCB-1260	3.00	3.22		ug/L		107	35 - 130
PCB-1260, Dissolved	3.00	3.22		ug/L		107	35 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*113*		*14 - 130*
Tetrachloro-m-xylene	*69*		*40 - 130*

Lab Sample ID: LCSD 680-716141/19-A
Matrix: Water
Analysis Batch: 716504

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 716141

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	3.00	1.27	*- *1	ug/L		42	44 - 130	68	30
PCB-1016, Dissolved	3.00	1.27	*- *1	ug/L		42	44 - 130	68	30
PCB-1260	3.00	2.49		ug/L		83	35 - 130	26	40
PCB-1260, Dissolved	3.00	2.49		ug/L		83	35 - 130	26	40

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCSD 680-716141/19-A
Matrix: Water
Analysis Batch: 716504

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 716141

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	76		14 - 130
Tetrachloro-m-xylene	12	S1-	40 - 130

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-571829/1-A
Matrix: Water
Analysis Batch: 572045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/14/22 16:50	04/15/22 20:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	87		60 - 154	04/14/22 16:50	04/15/22 20:19	1

Lab Sample ID: LCS 280-571829/2-A
Matrix: Water
Analysis Batch: 572045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	4.00	2.59		ug/L		65	55 - 107

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Triphenylphosphate	68		60 - 154

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-715574/1-A
Matrix: Water
Analysis Batch: 715792

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 715574

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/13/22 10:09	04/13/22 19:49	1
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/13/22 10:09	04/13/22 19:49	1
Manganese	<0.010		0.010	0.0013	mg/L		04/13/22 10:09	04/13/22 19:49	1
Manganese, Dissolved	<0.010		0.010	0.0013	mg/L		04/13/22 10:09	04/13/22 19:49	1

Lab Sample ID: LCS 680-715574/2-A
Matrix: Water
Analysis Batch: 715792

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 715574

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.0500	0.0478		mg/L		96	80 - 120
Cobalt, Dissolved	0.0500	0.0478		mg/L		96	80 - 120
Manganese	0.400	0.374		mg/L		93	80 - 120
Manganese, Dissolved	0.400	0.374		mg/L		93	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 680-213810-7 MS
Matrix: Water
Analysis Batch: 715792

Client Sample ID: T-20
Prep Type: Total Recoverable
Prep Batch: 715574

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.057		0.0500	0.103		mg/L		91	75 - 125
Cobalt, Dissolved	0.057		0.0500	0.103		mg/L		91	75 - 125
Manganese	2.2		0.400	2.49	4	mg/L		79	75 - 125
Manganese, Dissolved	2.2		0.400	2.49	4	mg/L		79	75 - 125

Lab Sample ID: 680-213810-7 MSD
Matrix: Water
Analysis Batch: 715792

Client Sample ID: T-20
Prep Type: Total Recoverable
Prep Batch: 715574

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cobalt	0.057		0.0500	0.102		mg/L		91	75 - 125	0	20
Cobalt, Dissolved	0.057		0.0500	0.102		mg/L		91	75 - 125	0	20
Manganese	2.2		0.400	2.47	4	mg/L		76	75 - 125	1	20
Manganese, Dissolved	2.2		0.400	2.47	4	mg/L		76	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-715892/1-A
Matrix: Water
Analysis Batch: 716326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/14/22 18:01	04/15/22 18:29	1

Lab Sample ID: LCS 680-715892/2-A
Matrix: Water
Analysis Batch: 716326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00258		mg/L		103	80 - 120

GC/MS Semi VOA

Prep Batch: 245356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213810-4	OWR-13	Total/NA	Water	680	
680-213810-5	OWR-13F	Total/NA	Water	680	
MB 410-245356/1-A	Method Blank	Total/NA	Water	680	
LCS 410-245356/2-A	Lab Control Sample	Total/NA	Water	680	
LCSD 410-245356/3-A	Lab Control Sample Dup	Total/NA	Water	680	

Analysis Batch: 245972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213810-5	OWR-13F	Total/NA	Water	680	245356
MB 410-245356/1-A	Method Blank	Total/NA	Water	680	245356
LCS 410-245356/2-A	Lab Control Sample	Total/NA	Water	680	245356
LCSD 410-245356/3-A	Lab Control Sample Dup	Total/NA	Water	680	245356

Analysis Batch: 246464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213810-4	OWR-13	Total/NA	Water	680	245356

Prep Batch: 715834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213810-1	T-09	Total/NA	Water	3520C	
680-213810-3	Field Duplicate 3	Total/NA	Water	3520C	
680-213810-6	T-10	Total/NA	Water	3520C	
MB 680-715834/15-A	Method Blank	Total/NA	Water	3520C	
LCS 680-715834/16-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-715834/17-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 716544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213810-1	T-09	Total/NA	Water	8270D	715834
680-213810-3	Field Duplicate 3	Total/NA	Water	8270D	715834
680-213810-6	T-10	Total/NA	Water	8270D	715834
MB 680-715834/15-A	Method Blank	Total/NA	Water	8270D	715834
LCS 680-715834/16-A	Lab Control Sample	Total/NA	Water	8270D	715834
LCSD 680-715834/17-A	Lab Control Sample Dup	Total/NA	Water	8270D	715834

GC Semi VOA

Prep Batch: 571829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213810-1	T-09	Total/NA	Water	3510C	
680-213810-3	Field Duplicate 3	Total/NA	Water	3510C	
680-213810-6	T-10	Total/NA	Water	3510C	
MB 280-571829/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-571829/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 572045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213810-1	T-09	Total/NA	Water	8141B	571829
680-213810-3	Field Duplicate 3	Total/NA	Water	8141B	571829
680-213810-6	T-10	Total/NA	Water	8141B	571829
MB 280-571829/1-A	Method Blank	Total/NA	Water	8141B	571829

GC Semi VOA (Continued)

Analysis Batch: 572045 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-571829/2-A	Lab Control Sample	Total/NA	Water	8141B	571829

Prep Batch: 716141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213810-1	T-09	Total/NA	Water	3520C	
680-213810-2	T-09F	Dissolved	Water	3520C	
680-213810-3	Field Duplicate 3	Total/NA	Water	3520C	
680-213810-4	OWR-13	Total/NA	Water	3520C	
680-213810-5	OWR-13F	Dissolved	Water	3520C	
680-213810-6	T-10	Total/NA	Water	3520C	
680-213810-7	T-20	Total/NA	Water	3520C	
680-213810-8	T-20F	Dissolved	Water	3520C	
680-213810-9	OWR-11	Total/NA	Water	3520C	
680-213810-10	OWR-11F	Dissolved	Water	3520C	
MB 680-716141/17-A	Method Blank	Total/NA	Water	3520C	
LCS 680-716141/18-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-716141/19-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 716504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213810-1	T-09	Total/NA	Water	8081B/8082A	716141
680-213810-2	T-09F	Dissolved	Water	8081B/8082A	716141
680-213810-3	Field Duplicate 3	Total/NA	Water	8081B/8082A	716141
680-213810-4	OWR-13	Total/NA	Water	8081B/8082A	716141
680-213810-5	OWR-13F	Dissolved	Water	8081B/8082A	716141
680-213810-6	T-10	Total/NA	Water	8081B/8082A	716141
680-213810-7	T-20	Total/NA	Water	8081B/8082A	716141
680-213810-8	T-20F	Dissolved	Water	8081B/8082A	716141
680-213810-9	OWR-11	Total/NA	Water	8081B/8082A	716141
680-213810-9	OWR-11	Total/NA	Water	8081B/8082A	716141
680-213810-10	OWR-11F	Dissolved	Water	8081B/8082A	716141
680-213810-10	OWR-11F	Dissolved	Water	8081B/8082A	716141
MB 680-716141/17-A	Method Blank	Total/NA	Water	8081B/8082A	716141
LCS 680-716141/18-A	Lab Control Sample	Total/NA	Water	8081B/8082A	716141
LCSD 680-716141/19-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	716141

Metals

Prep Batch: 715574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213810-7	T-20	Total Recoverable	Water	3005A	
680-213810-8	T-20F	Dissolved	Water	3005A	
680-213810-9	OWR-11	Total Recoverable	Water	3005A	
680-213810-10	OWR-11F	Dissolved	Water	3005A	
MB 680-715574/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-715574/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-213810-7 MS	T-20	Total Recoverable	Water	3005A	
680-213810-7 MSD	T-20	Total Recoverable	Water	3005A	

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213810-1

Metals

Analysis Batch: 715792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213810-7	T-20	Total Recoverable	Water	6010C	715574
680-213810-8	T-20F	Dissolved	Water	6010C	715574
680-213810-9	OWR-11	Total Recoverable	Water	6010C	715574
680-213810-10	OWR-11F	Dissolved	Water	6010C	715574
MB 680-715574/1-A	Method Blank	Total Recoverable	Water	6010C	715574
LCS 680-715574/2-A	Lab Control Sample	Total Recoverable	Water	6010C	715574
680-213810-7 MS	T-20	Total Recoverable	Water	6010C	715574
680-213810-7 MSD	T-20	Total Recoverable	Water	6010C	715574

Prep Batch: 715892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213810-7	T-20	Total/NA	Water	7470A	
MB 680-715892/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-715892/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 716326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213810-7	T-20	Total/NA	Water	7470A	715892
MB 680-715892/1-A	Method Blank	Total/NA	Water	7470A	715892
LCS 680-715892/2-A	Lab Control Sample	Total/NA	Water	7470A	715892

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213810-1

Client Sample ID: T-09
Date Collected: 04/07/22 10:03
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213810-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1035.9 mL	1 mL	715834	04/14/22 20:00	IR	TAL SAV
Total/NA	Analysis	8270D		1			716544	04/19/22 21:41	DC	TAL SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1039 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			716504	04/19/22 18:59	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			1027.8 mL	2 mL	571829	04/14/22 16:50	KJZ	TAL DEN
Total/NA	Analysis	8141B		1			572045	04/15/22 23:33	MKW	TAL DEN
	Instrument ID: SGC_D2									

Client Sample ID: T-09F
Date Collected: 04/07/22 10:03
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213810-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1016.5 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			716504	04/19/22 19:15	JCK	TAL SAV
	Instrument ID: CSGK									

Client Sample ID: Field Duplicate 3
Date Collected: 04/07/22 12:00
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213810-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1037.3 mL	1 mL	715834	04/14/22 20:00	IR	TAL SAV
Total/NA	Analysis	8270D		1			716544	04/19/22 22:07	DC	TAL SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1019.4 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			716504	04/19/22 19:31	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			1049.8 mL	2 mL	571829	04/14/22 16:50	KJZ	TAL DEN
Total/NA	Analysis	8141B		1			572045	04/16/22 00:12	MKW	TAL DEN
	Instrument ID: SGC_D2									

Client Sample ID: OWR-13
Date Collected: 04/07/22 09:48
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213810-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	680			1026.5 mL	1.0 mL	245356	04/17/22 15:00	CPV9	ELLE
Total/NA	Analysis	680		1			246464	04/20/22 12:46	UAD3	ELLE
	Instrument ID: 21949									
Total/NA	Prep	3520C			1038.5 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			716504	04/19/22 19:47	JCK	TAL SAV
	Instrument ID: CSGK									

Client Sample ID: OWR-13F

Lab Sample ID: 680-213810-5

Date Collected: 04/07/22 09:48

Matrix: Water

Date Received: 04/09/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	680			1047.2 mL	1.0 mL	245356	04/17/22 15:00	CPV9	ELLE
Total/NA	Analysis	680		1			245972	04/19/22 16:33	UAD3	ELLE
	Instrument ID: 21949									
Dissolved	Prep	3520C			1038.1 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			716504	04/19/22 20:02	JCK	TAL SAV
	Instrument ID: CSGK									

Client Sample ID: T-10

Lab Sample ID: 680-213810-6

Date Collected: 04/07/22 11:23

Matrix: Water

Date Received: 04/09/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1024.7 mL	1 mL	715834	04/14/22 20:00	IR	TAL SAV
Total/NA	Analysis	8270D		1			716544	04/19/22 22:33	DC	TAL SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1003.3 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			716504	04/19/22 20:18	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			1052.6 mL	2 mL	571829	04/14/22 16:50	KJZ	TAL DEN
Total/NA	Analysis	8141B		1			572045	04/16/22 00:51	MKW	TAL DEN
	Instrument ID: SGC_D2									

Client Sample ID: T-20

Lab Sample ID: 680-213810-7

Date Collected: 04/07/22 15:35

Matrix: Water

Date Received: 04/09/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1024.4 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			716504	04/19/22 20:34	JCK	TAL SAV
	Instrument ID: CSGK									
Total Recoverable	Prep	3005A			50 mL	50 mL	715574	04/13/22 10:09	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			715792	04/13/22 19:54	BCB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	715892	04/14/22 18:01	BCB	TAL SAV
Total/NA	Analysis	7470A		1			716326	04/15/22 19:15	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: T-20F

Lab Sample ID: 680-213810-8

Date Collected: 04/07/22 15:35

Matrix: Water

Date Received: 04/09/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1019 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			716504	04/19/22 20:50	JCK	TAL SAV
	Instrument ID: CSGK									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213810-1

Client Sample ID: T-20F

Date Collected: 04/07/22 15:35
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213810-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			50 mL	50 mL	715574	04/13/22 10:09	JE	TAL SAV
Dissolved	Analysis	6010C		1			715792	04/13/22 20:03	BCB	TAL SAV
	Instrument ID: ICPH									

Client Sample ID: OWR-11

Date Collected: 04/07/22 16:42
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213810-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1036.8 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			716504	04/19/22 21:06	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3520C			1036.8 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		25			716504	04/19/22 21:22	JCK	TAL SAV
	Instrument ID: CSGK									
Total Recoverable	Prep	3005A			50 mL	50 mL	715574	04/13/22 10:09	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			715792	04/13/22 20:06	BCB	TAL SAV
	Instrument ID: ICPH									

Client Sample ID: OWR-11F

Date Collected: 04/07/22 16:42
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213810-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1014.3 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			716504	04/19/22 21:38	JCK	TAL SAV
	Instrument ID: CSGK									
Dissolved	Prep	3520C			1014.3 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		10			716504	04/19/22 21:53	JCK	TAL SAV
	Instrument ID: CSGK									
Dissolved	Prep	3005A			50 mL	50 mL	715574	04/13/22 10:09	JE	TAL SAV
Dissolved	Analysis	6010C		1			715792	04/13/22 20:08	BCB	TAL SAV
	Instrument ID: ICPH									

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Job ID: 680-213810-1
Project/Site: Anniston CERCLA April 2022

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-22

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-09-23
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	04-17-22
Oklahoma	NELAP	8614	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-17-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-22
A2LA	ISO/IEC 17025	0001.01	11-30-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Job ID: 680-213810-1
Project/Site: Anniston CERCLA April 2022

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska	State	PA00009	06-30-22
Alaska (UST)	State	17-027	02-28-23
Arizona	State	AZ0780	03-12-23
Arkansas DEQ	State	88-0660	08-10-22
California	State	2792	02-02-22 *
Colorado	State	PA00009	06-30-22
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-23
Delaware (DW)	State	N/A	01-31-23
Florida	NELAP	E87997	06-30-22
Georgia (DW)	State	C048	01-31-22 *
Hawaii	State	N/A	01-31-23
Illinois	NELAP	200027	01-31-23
Iowa	State	361	03-02-22 *
Kansas	NELAP	E-10151	10-31-22
Kentucky (DW)	State	KY90088	12-31-22
Kentucky (UST)	State	1.01	11-30-22
Kentucky (WW)	State	KY90088	01-01-23
Louisiana	NELAP	02055	06-30-22
Maine	State	2019012	03-12-23
Maryland	State	100	06-30-22
Massachusetts	State	M-PA009	06-30-22
Michigan	State	9930	01-31-23
Minnesota	NELAP	042-999-487	12-31-22
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-23
Montana (UST)	State	<cert No.>	02-01-23
Nebraska	State	NE-OS-32-17	01-31-23
New Hampshire	NELAP	2730	01-10-23
New Jersey	NELAP	PA011	06-30-22
New York	NELAP	10670	04-01-23
North Carolina (DW)	State	42705	07-31-22
North Carolina (WW/SW)	State	521	12-31-22
North Dakota	State	R-205	01-31-23
Oklahoma	NELAP	R-205	08-31-22
Oregon	NELAP	PA200001	09-11-22
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-23
Rhode Island	State	LAO00338	12-30-22
South Carolina	State	89002	01-31-23
Tennessee	State	02838	01-31-23
Texas	NELAP	T104704194-21-40	08-31-22
USDA	US Federal Programs	P330-19-00197	07-03-22
Vermont	State	VT - 36037	10-28-22
Virginia	NELAP	460182	06-14-22
Washington	State	C457	04-12-22 *
West Virginia (DW)	State	9906 C	12-31-22
West Virginia DEP	State	055	05-16-23
Wyoming	State	8TMS-L	01-31-23
Wyoming (UST)	A2LA	1.01	11-30-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213810-1

Method	Method Description	Protocol	Laboratory
680	Polychlorinated Biphenyls by GCMS	EPA	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	TAL DEN
6010C	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL SAV
680	Polychlorinated Biphenyls by GCMS Preparation for Liquids	EPA	ELLE
7470A	Preparation, Mercury	SW846	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: JA FGK AJV	Lab PM: Weinberg Amy	Carrier Tracking No(s):	COC No: 680-134402-49188 4
Client Contact: Jessica Alanis	Phone: 713-522-6300	E-Mail: amy.weinberg@Eurofinset.com	State of Origin:	Page: ~~Page 4 of 4~~ 1 of 1
Company: GSI Environmental Inc	PWSID:			Job #: 6123
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			
City: Houston	TAT Requested (days): standard			
State, Zip: TX, 77098-4044	Compliance Project: Δ Yes Δ No			
Phone: 713-522-6300(Tel)	PO #: ~~45008635~~ 49200722			
Email: JAlanis@gsi-net.com	WO #:			
Project Name: Anniston CERCLA April 2022	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL	M Hexane
B NaOH	N None
C Zn Acetate	O AsNaO2
D - Nitric Acid	P - Na2O4S
E NaHSO4	Q Na2SO3
F MeOH	R Na2S2O3
G Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L EDA	Z other (specify)

680-213810 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A Mercury	8260B Trichloroethene	8081B_8082A - PCB	8081B_8082A - (MOD) Dissolved PCBs Field Filtered	6010C - (MOD) Cobalt/Manganese	680 PCB Homologs	6010C - Manganese	8141B Parathion	8270D (MOD) 4-NP	6010C (MOD) Cobalt/Manganese FF	Homologs Field Filtered	~~nese - Field Filtered~~	~~ntainers~~
			Preservation Code:				D	A	N	N	D	N	D	N	N	D			
T-09	4-7-22	1003	G	Water					X					X	X				6
T-09F	4-7-22	1003	G	Water	X				X										2
Field Duplicate 3	4-7-22	—	G	Water					X					X	X				6
OWR-13	4-7-22	948	G	Water					X			X							4
OWR-13F	4-7-22	948	G	W	X				X			X							4
T-10	4-7-22	1123	G	W					X					X	X				6
T-20	4-7-22	1535	G	W			X		X				X						3
T-20F	4-7-22	1535	G	W	X				X				X						3
OWR-11	4-7-22	1642	G	W					X		X								3
OWR-11F	4-7-22	1642	G	W	X				X		X								3

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify) Level II

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jessica Alanis	4/8/22 0900	GSI		4/9 1000	
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.	Ver: 06/08/2021
		1.4-1.3 0.8-0.2 1.4-0.8 3.4-2.8 2.7-2.1	

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

680-213810 Chain of Custody

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampl	Carrier Tracking No(s):	COC No: 680-690051.1
Client Contact: Shipping/Receiving	Phone	E-Mail: amy.weinberg@et.eurofinsus.com	State of Origin: Alabama
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Alabama	Page: Page 1 of 1
Address: 4955 Yarrow Street, ,	Due Date Requested: 4/21/2022		Job #: 680-213810-1
City: Arvada	TAT Requested (days):		
State, Zip: CO, 80002			
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #		
Email:	WO #.		
Project Name: Anniston CERCLA April 2022	Project #: 68020284		
Site:	SSOW#		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3510C Parathion	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
T-09 (680-213810-1)	4/7/22	10:03 Central		Water			X	2	
Field Duplicate 3 (680-213810-3)	4/7/22	Central		Water			X	2	
T-10 (680-213810-6)	4/7/22	11:23 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Southeast, LLC

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time: 4/12 1400	Company	Received by:	Date/Time: 4/13/22 11:30	Company
Relinquished by	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.8 IR12 CF+0.1

Ver: 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Weinberg, Amy	Carrier Tracking No(s):	COC No: 680-690057.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: amy.weinberg@et.eurofinsus.com	State of Origin: Alabama	Page: Page 1 of 1
Company: Eurofins Environment Testing Lancaster L		Accreditations Required (See note): State Program - Alabama		Job #: 680-213810-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 4/21/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Anniston CERCLA April 2022	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	680/680_P_Liquid PCB Homologs	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
OWR-13 (680-213810-4)	4/7/22	09:48 Central		Water			X	2	
OWR-13F (680-213810-5)	4/7/22	09:48 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 4/12 1400	Company	Received by	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by	Date/Time: 4/13/22 1135	Company: EUE

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.5

TAR

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-213810-1

Login Number: 213810
List Number: 1
Creator: Watters, David

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-213810-1

Login Number: 213810
List Number: 3
Creator: Lee, Jerry

List Source: Eurofins Denver
List Creation: 04/13/22 04:23 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-213810-1

Login Number: 213810
List Number: 2
Creator: Bryan, Debra A

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 04/13/22 01:03 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: RCRA Groundwater Monitoring Project Number: 680-213811-1
Reviewer: Jessica Alanis Validation Date: 08 August 2022

Laboratory: Eurofins TestAmerica Savannah SDG #: 680-213811-1
Analytical Method (type and no.): VOCS (8260B), SVOCS (8270D), PCBs (8081B/8082A), Pesticides (8141B)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: MW-01B, MW-16, MW-16F, MW-15, MW-15F, OW-06A, Tripblank 20220408

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?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	Tripblank 20220408
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☐	☒	☐	Temperature correction for ORP standard value incorrectly calculated. Correct value at 14.8°C is 241 mV but was calculated and calibrated to 303 mV (26% too high) for YSI serial number c2202 (used during purging and sampling of OW-06A, MW-15, and MW-01B). Incorrect ORP measurements for these three wells are not expected to impact the laboratory analytical data quality; therefore, no results are qualified on this basis. Additionally, for turbidity meter serial HI98703 (used during purging and sampling of OW-06A, MW-15, and MW-01B), the calibration form indicates "fail" for the lowest turbidity standard because its numeric deviation (14%) slightly exceeded the calibration limit of 10%. Incorrect turbidity measurements for these three wells are not expected to impact the laboratory analytical quality data; therefore, no results are qualified on this basis.
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☒	☐	☐	

Note Deficiencies: The RPD between the primary and confirmation column exceeded control limits in surrogates of Method 8081B/8082A for samples MW-16F and MW-15F; however, all recoveries were within acceptance limits, so no qualification is required.

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☒	☐	☐	For sample MW-16, all method 8081B/8082A PCBs had a dilution factor of DL=5.
g) Were any matrix problems noted?	☒	☐	☐	Evidence of matrix interference in Method 8141B for MW-16 was present which caused surrogate recovery issues. Further discussion below in the Surrogate Spikes section.

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☐	☒	☐	See further discussion below in "Duplicates (d)" – the LCSD for PCB-1016 for method 8081B/8082A recovery (42%) was below the lower control limit (44%). All other LCS and LCSD recoveries met the accuracy criteria.

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	☐	☒	☐	
b) Were field dup. precision criteria met (note RPD)?	☐	☐	☒	
c) Were lab duplicates analyzed (note original and duplicate samples)?	☒	☐	☐	Multiple LCSDs
d) Were lab dup. precision criteria met (note RPD)?	☐	☒	☐	Except for the RPD for PCB-1016 by method 8081B/8082A (68%), all other LCS/LCSDs RPDs (≤ 26%) met precision criteria of ≤ 50%. The lab noted that "The LCSD had a very low volume of solvent after the 18-hour extraction process which is the cause of the failures. This issue was isolated only to the LCSD. The LCS passed all control limits. Re-extraction would have been outside of holding time." As such, all PCB-1016 results, which were non-detect for the entire sample group (MW-01B, MW-16, MW-16F, MW-15, MW-15F, and OW-06A), are qualified as estimated (UJ).

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☐	☒	

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☐	☒	☐	Tetrachloro-m-xylene (TCX) recovered low (below the lab standard of 40%) for sample LCSD (12%) for Aroclor analysis by 8081B/8082A but greater than the "expanded lower acceptance limit" (10%) specified in the National Functional Guidelines for Organic Superfund Methods Data Review (NFG, 2020). The case narrative stated that "The LCSD had a very low volume of solvent after the 18-hour extraction process which is the cause of the failures. This issue was isolated only to the LCSD. The LCS passed all control limits. Re-extraction would have been outside of holding time." TCX surrogate recoveries in the LCS and original samples were within limits with the exception of MW-16 which recovered high (293%) above the lab control limit of 130%. Since all Aroclor results were not detected in this sample, and matrix interference was present, no data are qualified on this basis.
b) Were surrogate recoveries not calculated due to dilutions?	☐	☒	☐	

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
MW-01B	PCB-1016	<0.5 ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria
MW-16	PCB-1016	<0.5 ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria
MW-16F	PCB-1016	<0.5 ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria
MW-15	PCB-1016	<0.5 ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria
MW-15F	PCB-1016	<0.5 ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria
OW-06A	PCB-1016	<0.5 ug/L	UJ	Low LCSD recovery and LCS/LCSD RPD above criteria

Signature: Jessica Adams Date: 08 August 2022

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: RCRA Groundwater Monitoring Project Number: 680-213811-1
Reviewer: Jessica Alanis Validation Date: 08 August 2022

Laboratory: Eurofins TestAmerica Savannah SDG #: 680-213811-1
Analytical Method (type and no.): Metals (6010C), Mercury (7470A)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: MW-01B, MW-16, MW-16F, MW-15, MW-15F, OW-06A

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?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☐	☒	☐	
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☐	☒	☐	Temperature correction for ORP standard value incorrectly calculated. Correct value at 14.8°C is 241 mV but was calculated and calibrated to 303 mV (26% too high) for YSI serial number c2202 (used during purging and sampling of OW-06A, MW-15, and MW-01B). Incorrect ORP measurements for these three wells are not expected to impact the laboratory analytical data quality; therefore, no results are qualified on this basis. Additionally, for turbidity meter serial HI98703 (used during purging and sampling of OW-06A, MW-15, and MW-01B), the calibration form indicates "fail" for the lowest turbidity standard because its numeric deviation (14%) slightly exceeded the calibration limit of 10%. Incorrect turbidity measurements for these three wells are not expected to impact the laboratory analytical quality data; therefore, no results are qualified on this basis.
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	
Note Deficiencies:				

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☐	☒	☐	
g) Were any matrix problems noted?	☐	☒	☐	

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?				
	☐	☒	☐	
b) Were field dup. precision criteria met (note RPD)?	☐	☐	☒	
c) Were lab duplicates analyzed (note original and duplicate samples)?				
	☐	☒	☐	
d) Were lab dup. precision criteria met (note RPD)?	☐	☐	☒	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☐	☒	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:
No data requires qualification.

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: Jessica Adams

Date: 04 August 2022

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ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-213811-1
Client Project/Site: Anniston RCRA April 2022

For:
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Attn: Ben Smith

Amy Weinberg

Authorized for release by:
4/27/2022 4:57:43 PM

Amy Weinberg, Project Manager II
(813)885-7427
amy.weinberg@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213811-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 680-213811-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-213811-1

Comments
No additional comments.

Receipt
The samples were received on 4/9/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.3º C, 0.7º C, 1.0º C and 1.3º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 3520C: The LCSD solvent volume was low after being extracted. MW-01B (680-213811-1), MW-16 (680-213811-2), MW-16F (680-213811-3), MW-15 (680-213811-4), MW-15F (680-213811-5) and OW-06A (680-213811-6)

Method 8081B/8082A: The laboratory control sample duplicate (LCSD) for preparation batch 680-716141 and analytical batch 680-716504 recovered outside control limits. The LCSD had a very low volume of solvent after the 18 hour extraction process which is the cause of the failures. This issue was isolated only to the LCSD. The LCS passed all control limits. Re-extraction would have been outside of holding time.

Method 8081B/8082A: The following sample was diluted due to the nature of the sample matrix: MW-16 (680-213811-2). Elevated reporting limits (RLs) are provided.

Method 8081B/8082A: Surrogate recovery for the following sample was outside control limits: MW-16 (680-213811-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: The following sample MW-01B (680-213811-1) was pink in color preparation batch 280-571965. Method: 8141B/8141A

Method 3510C: The following sample MW-16 (680-213811-2) was green in color preparation batch 280-571965. Method: 8141B/8141A

Method 3510C: The following sample formed emulsions during the extraction procedure: MW-01B (680-213811-1). The emulsions were broken up using the pour back method for all three extractions preparation batch 280-571965. Method: 8141B/8141A

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213811-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-213811-1	MW-01B	Water	04/08/22 09:54	04/09/22 10:00
680-213811-2	MW-16	Water	04/08/22 12:41	04/09/22 10:00
680-213811-3	MW-16F	Water	04/08/22 12:41	04/09/22 10:00
680-213811-4	MW-15	Water	04/08/22 12:27	04/09/22 10:00
680-213811-5	MW-15F	Water	04/08/22 12:27	04/09/22 10:00
680-213811-6	OW-06A	Water	04/08/22 15:36	04/09/22 10:00
680-213811-7	TRIP BLANK 20220408	Water	04/08/22 16:40	04/09/22 10:00

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213811-1

Client Sample ID: MW-01B — Lab Sample ID: 680-213811-1

No Detections.

Client Sample ID: MW-16 — Lab Sample ID: 680-213811-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Nitrophenol	87		25	1.8	ug/L	1		8270D	Total/NA
o,o',o''-Triethylphosphorothioate	47		10	0.97	ug/L	1		8270D	Total/NA
Mercury	0.0012		0.00020	0.000080	mg/L	1		7470A	Total/NA

Client Sample ID: MW-16F — Lab Sample ID: 680-213811-3

No Detections.

Client Sample ID: MW-15 — Lab Sample ID: 680-213811-4

No Detections.

Client Sample ID: MW-15F — Lab Sample ID: 680-213811-5

No Detections.

Client Sample ID: OW-06A — Lab Sample ID: 680-213811-6

No Detections.

Client Sample ID: TRIP BLANK 20220408 — Lab Sample ID: 680-213811-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-01B

Date Collected: 04/08/22 09:54
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213811-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/22/22 05:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*04/22/22 05:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*04/22/22 05:22*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*04/22/22 05:22*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*04/22/22 05:22*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.52	ug/L		04/14/22 20:00	04/21/22 01:11	1
1,4-Dichlorobenzene	<10		10	0.53	ug/L		04/14/22 20:00	04/21/22 01:11	1
4-Nitrophenol	<25		25	1.9	ug/L		04/14/22 20:00	04/21/22 01:11	1
o,o',o''-Triethylphosphorothioate	<10		10	0.99	ug/L		04/14/22 20:00	04/21/22 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*32 - 113*	*04/14/22 20:00*	*04/21/22 01:11*	*1*
2-Fluorophenol	*49*		*26 - 109*	*04/14/22 20:00*	*04/21/22 01:11*	*1*
Nitrobenzene-d5	*60*		*32 - 118*	*04/14/22 20:00*	*04/21/22 01:11*	*1*
Phenol-d5	*51*		*27 - 110*	*04/14/22 20:00*	*04/21/22 01:11*	*1*
Terphenyl-d14	*68*		*10 - 126*	*04/14/22 20:00*	*04/21/22 01:11*	*1*
2,4,6-Tribromophenol	*77*		*39 - 124*	*04/14/22 20:00*	*04/21/22 01:11*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50	*- *1	0.50	0.089	ug/L		04/16/22 18:41	04/19/22 22:09	1
PCB-1221	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 22:09	1
PCB-1232	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 22:09	1
PCB-1242	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 22:09	1
PCB-1248	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 22:09	1
PCB-1254	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 22:09	1
PCB-1260	<0.50		0.50	0.060	ug/L		04/16/22 18:41	04/19/22 22:09	1
PCB-1268	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*		*14 - 130*	*04/16/22 18:41*	*04/19/22 22:09*	*1*
Tetrachloro-m-xylene	*67*		*40 - 130*	*04/16/22 18:41*	*04/19/22 22:09*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/15/22 14:13	04/19/22 10:30	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.16	ug/L		04/15/22 14:13	04/19/22 10:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*87*		*60 - 154*	*04/15/22 14:13*	*04/19/22 10:30*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/13/22 10:09	04/13/22 20:11	1

Client Sample ID: MW-01B

Date Collected: 04/08/22 09:54
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213811-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/14/22 18:01	04/15/22 19:00	1

Client Sample ID: MW-16

Date Collected: 04/08/22 12:41
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213811-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/22/22 05:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*04/22/22 05:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*04/22/22 05:41*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*04/22/22 05:41*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*04/22/22 05:41*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.51	ug/L		04/14/22 20:00	04/21/22 01:35	1
1,4-Dichlorobenzene	<10		10	0.52	ug/L		04/14/22 20:00	04/21/22 01:35	1
4-Nitrophenol	**87**		25	1.8	ug/L		04/14/22 20:00	04/21/22 01:35	1
o,o',o''-Triethylphosphorothioate	**47**		10	0.97	ug/L		04/14/22 20:00	04/21/22 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*32 - 113*	*04/14/22 20:00*	*04/21/22 01:35*	*1*
2-Fluorophenol	*43*		*26 - 109*	*04/14/22 20:00*	*04/21/22 01:35*	*1*
Nitrobenzene-d5	*56*		*32 - 118*	*04/14/22 20:00*	*04/21/22 01:35*	*1*
Phenol-d5	*45*		*27 - 110*	*04/14/22 20:00*	*04/21/22 01:35*	*1*
Terphenyl-d14	*80*		*10 - 126*	*04/14/22 20:00*	*04/21/22 01:35*	*1*
2,4,6-Tribromophenol	*85*		*39 - 124*	*04/14/22 20:00*	*04/21/22 01:35*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50	*- *1	0.50	0.45	ug/L		04/16/22 18:41	04/21/22 16:12	5
PCB-1221	<0.50		0.50	0.45	ug/L		04/16/22 18:41	04/21/22 16:12	5
PCB-1232	<0.50		0.50	0.45	ug/L		04/16/22 18:41	04/21/22 16:12	5
PCB-1242	<0.50		0.50	0.45	ug/L		04/16/22 18:41	04/21/22 16:12	5
PCB-1248	<0.50		0.50	0.45	ug/L		04/16/22 18:41	04/21/22 16:12	5
PCB-1254	<0.50		0.50	0.45	ug/L		04/16/22 18:41	04/21/22 16:12	5
PCB-1260	<0.50		0.50	0.30	ug/L		04/16/22 18:41	04/21/22 16:12	5
PCB-1268	<0.50		0.50	0.45	ug/L		04/16/22 18:41	04/21/22 16:12	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*20*		*14 - 130*	*04/16/22 18:41*	*04/21/22 16:12*	*5*
Tetrachloro-m-xylene	*293*	*S1+*	*40 - 130*	*04/16/22 18:41*	*04/21/22 16:12*	*5*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/15/22 14:13	04/19/22 11:09	1
Sulfotepp	<1.5		1.5	0.16	ug/L		04/15/22 14:13	04/19/22 11:09	1

Client Sample ID: MW-16

Date Collected: 04/08/22 12:41
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213811-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*68*		*60 - 154*	*04/15/22 14:13*	*04/19/22 11:09*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/13/22 10:09	04/13/22 20:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0012**		0.00020	0.000080	mg/L		04/14/22 18:01	04/15/22 19:02	1

Client Sample ID: MW-16F

Date Collected: 04/08/22 12:41
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213811-3
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50	*- *1	0.50	0.086	ug/L		04/16/22 18:41	04/19/22 22:41	1
PCB-1221, Dissolved	<0.50		0.50	0.086	ug/L		04/16/22 18:41	04/19/22 22:41	1
PCB-1232, Dissolved	<0.50		0.50	0.086	ug/L		04/16/22 18:41	04/19/22 22:41	1
PCB-1242, Dissolved	<0.50		0.50	0.086	ug/L		04/16/22 18:41	04/19/22 22:41	1
PCB-1248, Dissolved	<0.50		0.50	0.086	ug/L		04/16/22 18:41	04/19/22 22:41	1
PCB-1254, Dissolved	<0.50		0.50	0.086	ug/L		04/16/22 18:41	04/19/22 22:41	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		04/16/22 18:41	04/19/22 22:41	1
PCB-1268, Dissolved	<0.50		0.50	0.086	ug/L		04/16/22 18:41	04/19/22 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*44*	*p*	*14 - 130*	*04/16/22 18:41*	*04/19/22 22:41*	*1*
Tetrachloro-m-xylene	*111*		*40 - 130*	*04/16/22 18:41*	*04/19/22 22:41*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/13/22 10:09	04/13/22 20:23	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/14/22 18:01	04/15/22 19:05	1

Client Sample ID: MW-15

Date Collected: 04/08/22 12:27
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213811-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/22/22 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*103*		*70 - 130*		*04/22/22 06:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*04/22/22 06:00*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*04/22/22 06:00*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*04/22/22 06:00*	*1*

Client Sample ID: MW-15

Date Collected: 04/08/22 12:27
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213811-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.51	ug/L		04/14/22 20:00	04/21/22 01:59	1
1,4-Dichlorobenzene	<10		10	0.52	ug/L		04/14/22 20:00	04/21/22 01:59	1
4-Nitrophenol	<25		25	1.8	ug/L		04/14/22 20:00	04/21/22 01:59	1
o,o',o''-Triethylphosphorothioate	<10		10	0.96	ug/L		04/14/22 20:00	04/21/22 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*32 - 113*	*04/14/22 20:00*	*04/21/22 01:59*	*1*
2-Fluorophenol	*49*		*26 - 109*	*04/14/22 20:00*	*04/21/22 01:59*	*1*
Nitrobenzene-d5	*63*		*32 - 118*	*04/14/22 20:00*	*04/21/22 01:59*	*1*
Phenol-d5	*50*		*27 - 110*	*04/14/22 20:00*	*04/21/22 01:59*	*1*
Terphenyl-d14	*77*		*10 - 126*	*04/14/22 20:00*	*04/21/22 01:59*	*1*
2,4,6-Tribromophenol	*79*		*39 - 124*	*04/14/22 20:00*	*04/21/22 01:59*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50	*- *1	0.50	0.087	ug/L		04/16/22 18:41	04/19/22 22:57	1
PCB-1221	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 22:57	1
PCB-1232	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 22:57	1
PCB-1242	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 22:57	1
PCB-1248	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 22:57	1
PCB-1254	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 22:57	1
PCB-1260	<0.50		0.50	0.058	ug/L		04/16/22 18:41	04/19/22 22:57	1
PCB-1268	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*107*		*14 - 130*	*04/16/22 18:41*	*04/19/22 22:57*	*1*
Tetrachloro-m-xylene	*61*		*40 - 130*	*04/16/22 18:41*	*04/19/22 22:57*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/15/22 14:13	04/19/22 11:48	1
Sulfotepp	<1.5		1.5	0.16	ug/L		04/15/22 14:13	04/19/22 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*91*		*60 - 154*	*04/15/22 14:13*	*04/19/22 11:48*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/13/22 10:09	04/13/22 20:25	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/14/22 18:01	04/15/22 19:07	1

Client Sample ID: MW-15F

Date Collected: 04/08/22 12:27
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213811-5
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50	*- *1	0.50	0.087	ug/L		04/16/22 18:41	04/19/22 23:13	1
PCB-1221, Dissolved	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 23:13	1

Client Sample ID: MW-15F

Date Collected: 04/08/22 12:27
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213811-5
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232, Dissolved	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 23:13	1
PCB-1242, Dissolved	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 23:13	1
PCB-1248, Dissolved	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 23:13	1
PCB-1254, Dissolved	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 23:13	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		04/16/22 18:41	04/19/22 23:13	1
PCB-1268, Dissolved	<0.50		0.50	0.087	ug/L		04/16/22 18:41	04/19/22 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*24*	*p*	*14 - 130*	*04/16/22 18:41*	*04/19/22 23:13*	*1*
Tetrachloro-m-xylene	*52*	*p*	*40 - 130*	*04/16/22 18:41*	*04/19/22 23:13*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/13/22 10:09	04/13/22 20:28	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/14/22 18:01	04/15/22 19:10	1

Client Sample ID: OW-06A

Date Collected: 04/08/22 15:36
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213811-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/22/22 06:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*04/22/22 06:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*04/22/22 06:19*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*04/22/22 06:19*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*04/22/22 06:19*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.52	ug/L		04/14/22 20:00	04/21/22 02:23	1
1,4-Dichlorobenzene	<10		10	0.53	ug/L		04/14/22 20:00	04/21/22 02:23	1
4-Nitrophenol	<25		25	1.9	ug/L		04/14/22 20:00	04/21/22 02:23	1
o,o',o''-Triethylphosphorothioate	<10		10	0.98	ug/L		04/14/22 20:00	04/21/22 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*32 - 113*	*04/14/22 20:00*	*04/21/22 02:23*	*1*
2-Fluorophenol	*58*		*26 - 109*	*04/14/22 20:00*	*04/21/22 02:23*	*1*
Nitrobenzene-d5	*74*		*32 - 118*	*04/14/22 20:00*	*04/21/22 02:23*	*1*
Phenol-d5	*51*		*27 - 110*	*04/14/22 20:00*	*04/21/22 02:23*	*1*
Terphenyl-d14	*83*		*10 - 126*	*04/14/22 20:00*	*04/21/22 02:23*	*1*
2,4,6-Tribromophenol	*92*		*39 - 124*	*04/14/22 20:00*	*04/21/22 02:23*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50	*- *1	0.50	0.089	ug/L		04/16/22 18:41	04/19/22 21:29	1

Client Sample ID: OW-06A

Lab Sample ID: 680-213811-6

Date Collected: 04/08/22 15:36
Matrix: Water
Date Received: 04/09/22 10:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 21:29	1
PCB-1232	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 21:29	1
PCB-1242	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 21:29	1
PCB-1248	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 21:29	1
PCB-1254	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 21:29	1
PCB-1260	<0.50		0.50	0.059	ug/L		04/16/22 18:41	04/19/22 21:29	1
PCB-1268	<0.50		0.50	0.089	ug/L		04/16/22 18:41	04/19/22 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*14 - 130*	*04/16/22 18:41*	*04/19/22 21:29*	*1*
Tetrachloro-m-xylene	*62*		*40 - 130*	*04/16/22 18:41*	*04/19/22 21:29*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/15/22 14:13	04/19/22 12:27	1
Sulfotepp	<1.5		1.5	0.16	ug/L		04/15/22 14:13	04/19/22 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*89*		*60 - 154*	*04/15/22 14:13*	*04/19/22 12:27*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/13/22 10:09	04/13/22 20:31	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/14/22 18:01	04/15/22 19:13	1

Client Sample ID: TRIP BLANK 20220408

Lab Sample ID: 680-213811-7

Date Collected: 04/08/22 16:40
Matrix: Water
Date Received: 04/09/22 10:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/22/22 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*04/22/22 01:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*04/22/22 01:02*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*04/22/22 01:02*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*04/22/22 01:02*	*1*

Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213811-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	DBFM	BFB
Lab Sample ID	Client Sample ID	(70-130)	(60-124)	(70-130)	(70-130)
680-213811-1	MW-01B	104	103	101	109
680-213811-2	MW-16	106	104	104	103
680-213811-4	MW-15	103	103	101	108
680-213811-6	OW-06A	104	101	101	108
680-213811-7	TRIP BLANK 20220408	105	103	101	108
LCS 680-716949/40	Lab Control Sample	101	112	103	97
LCSD 680-716949/41	Lab Control Sample Dup	101	111	103	98
MB 680-716949/45	Method Blank	101	100	98	110

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(32-113)	(26-109)	(32-118)	(27-110)	(10-126)	(39-124)
680-213811-1	MW-01B	63	49	60	51	68	77
680-213811-2	MW-16	59	43	56	45	80	85
680-213811-4	MW-15	66	49	63	50	77	79
680-213811-6	OW-06A	74	58	74	51	83	92
LCS 680-715834/16-A	Lab Control Sample	71	61	72	64	85	86
LCS 680-715834/18-A	Lab Control Sample	72	62	79	63	85	86
LCSD 680-715834/17-A	Lab Control Sample Dup	71	55	72	59	88	91
LCSD 680-715834/19-A	Lab Control Sample Dup	72	59	79	59	85	87
MB 680-715834/15-A	Method Blank	67	54	71	49	80	84

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-213811-1	MW-01B	73	67
680-213811-2	MW-16	20	293 S1+
MB 680-716141/17-A	Method Blank	109	57

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX1
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-213811-4	MW-15	107	61
LCS 680-716141/18-A	Lab Control Sample	113	69
LCSD 680-716141/19-A	Lab Control Sample Dup	76	12 S1-

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-213811-6	OW-06A	71	62

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-213811-3	MW-16F	44 p	111

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-213811-5	MW-15F	24 p	52 p

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: GSI Environmental, Inc
Job ID: 680-213811-1
Project/Site: Anniston RCRA April 2022

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		TPP1
Lab Sample ID	Client Sample ID	(60-154)
410-79574-D-14-A MSD	Matrix Spike Duplicate	93
410-79574-F-14-B MS	Matrix Spike	93
680-213811-1	MW-01B	87
680-213811-2	MW-16	68
680-213811-4	MW-15	91
680-213811-6	OW-06A	89
LCS 280-571965/2-A	Lab Control Sample	98
MB 280-571965/1-A	Method Blank	95

Surrogate Legend

TPP = Triphenylphosphate

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-716949/45
Matrix: Water
Analysis Batch: 716949

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/22/22 00:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*04/22/22 00:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*04/22/22 00:23*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/22/22 00:23*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*04/22/22 00:23*	*1*

Lab Sample ID: LCS 680-716949/40
Matrix: Water
Analysis Batch: 716949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorobenzene			50.0	46.4		ug/L		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*112*		*60 - 124*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 680-716949/41
Matrix: Water
Analysis Batch: 716949

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene			50.0	47.1		ug/L		94	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 124*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-715834/15-A
Matrix: Water
Analysis Batch: 716752

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715834

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.53	ug/L		04/14/22 20:00	04/20/22 19:07	1
1,4-Dichlorobenzene	<10		10	0.54	ug/L		04/14/22 20:00	04/20/22 19:07	1
4-Nitrophenol	<25		25	1.9	ug/L		04/14/22 20:00	04/20/22 19:07	1
o,o',o''-Triethylphosphorothioate	<10		10	1.0	ug/L		04/14/22 20:00	04/20/22 19:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-715834/15-A
Matrix: Water
Analysis Batch: 716752

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715834

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		32 - 113	04/14/22 20:00	04/20/22 19:07	1
2-Fluorophenol	54		26 - 109	04/14/22 20:00	04/20/22 19:07	1
Nitrobenzene-d5	71		32 - 118	04/14/22 20:00	04/20/22 19:07	1
Phenol-d5	49		27 - 110	04/14/22 20:00	04/20/22 19:07	1
Terphenyl-d14	80		10 - 126	04/14/22 20:00	04/20/22 19:07	1
2,4,6-Tribromophenol	84		39 - 124	04/14/22 20:00	04/20/22 19:07	1

Lab Sample ID: LCS 680-715834/16-A
Matrix: Water
Analysis Batch: 716752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715834

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	100	48.2		ug/L		48	31 - 130
1,4-Dichlorobenzene	100	48.3		ug/L		48	31 - 130
4-Nitrophenol	200	163		ug/L		81	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	71		32 - 113
2-Fluorophenol	61		26 - 109
Nitrobenzene-d5	72		32 - 118
Phenol-d5	64		27 - 110
Terphenyl-d14	85		10 - 126
2,4,6-Tribromophenol	86		39 - 124

Lab Sample ID: LCS 680-715834/18-A
Matrix: Water
Analysis Batch: 716752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715834

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o,o',o''-Triethylphosphorothioate	100	71.2		ug/L		71	23 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	72		32 - 113
2-Fluorophenol	62		26 - 109
Nitrobenzene-d5	79		32 - 118
Phenol-d5	63		27 - 110
Terphenyl-d14	85		10 - 126
2,4,6-Tribromophenol	86		39 - 124

Lab Sample ID: LCSD 680-715834/17-A
Matrix: Water
Analysis Batch: 716752

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 715834

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene	100	45.9		ug/L		46	31 - 130	5	50
1,4-Dichlorobenzene	100	44.7		ug/L		45	31 - 130	8	50
4-Nitrophenol	200	168		ug/L		84	44 - 130	3	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-715834/17-A
Matrix: Water
Analysis Batch: 716752

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 715834

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	71		32 - 113
2-Fluorophenol	55		26 - 109
Nitrobenzene-d5	72		32 - 118
Phenol-d5	59		27 - 110
Terphenyl-d14	88		10 - 126
2,4,6-Tribromophenol	91		39 - 124

Lab Sample ID: LCSD 680-715834/19-A
Matrix: Water
Analysis Batch: 716752

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 715834

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o,o',o''-Triethylphosphorothioate			100	76.7		ug/L		77	23 - 130	7	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	72		32 - 113
2-Fluorophenol	59		26 - 109
Nitrobenzene-d5	79		32 - 118
Phenol-d5	59		27 - 110
Terphenyl-d14	85		10 - 126
2,4,6-Tribromophenol	87		39 - 124

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-716141/17-A
Matrix: Water
Analysis Batch: 716504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1221	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1232	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1242	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1248	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1254	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1260	<0.50		0.50	0.060	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1268	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		04/16/22 18:41	04/19/22 18:11	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: MB 680-716141/17-A
Matrix: Water
Analysis Batch: 716504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716141

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	109		14 - 130	04/16/22 18:41	04/19/22 18:11	1
Tetrachloro-m-xylene	57		40 - 130	04/16/22 18:41	04/19/22 18:11	1

Lab Sample ID: LCS 680-716141/18-A
Matrix: Water
Analysis Batch: 716504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716141

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			3.00	2.57		ug/L		86	44 - 130		
PCB-1016, Dissolved			3.00	2.57		ug/L		86	44 - 130		
PCB-1260			3.00	3.22		ug/L		107	35 - 130		
PCB-1260, Dissolved			3.00	3.22		ug/L		107	35 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	113		14 - 130
Tetrachloro-m-xylene	69		40 - 130

Lab Sample ID: LCSD 680-716141/19-A
Matrix: Water
Analysis Batch: 716504

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 716141

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			3.00	1.27	*- *1	ug/L		42	44 - 130	68	30
PCB-1016, Dissolved			3.00	1.27	*- *1	ug/L		42	44 - 130	68	30
PCB-1260			3.00	2.49		ug/L		83	35 - 130	26	40
PCB-1260, Dissolved			3.00	2.49		ug/L		83	35 - 130	26	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	76		14 - 130
Tetrachloro-m-xylene	12	S1-	40 - 130

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-571965/1-A
Matrix: Water
Analysis Batch: 572157

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571965

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/15/22 14:13	04/19/22 01:24	1
Sulfotepp	<1.5		1.5	0.17	ug/L		04/15/22 14:13	04/19/22 01:24	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.17	ug/L		04/15/22 14:13	04/19/22 01:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	95		60 - 154	04/15/22 14:13	04/19/22 01:24	1

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: LCS 280-571965/2-A
Matrix: Water
Analysis Batch: 572157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	4.00	3.43		ug/L		86	55 - 107
Sulfotepp	4.00	3.31		ug/L		83	53 - 110
Tetraethyldithiopyrophosphate	4.00	3.31		ug/L		83	53 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*98*		*60 - 154*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-715574/1-A
Matrix: Water
Analysis Batch: 715792

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 715574

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/13/22 10:09	04/13/22 19:49	1
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/13/22 10:09	04/13/22 19:49	1

Lab Sample ID: LCS 680-715574/2-A
Matrix: Water
Analysis Batch: 715792

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 715574

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.0500	0.0478		mg/L		96	80 - 120
Cobalt, Dissolved	0.0500	0.0478		mg/L		96	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-715892/1-A
Matrix: Water
Analysis Batch: 716326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/14/22 18:01	04/15/22 18:29	1
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/14/22 18:01	04/15/22 18:29	1

Lab Sample ID: LCS 680-715892/2-A
Matrix: Water
Analysis Batch: 716326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00258		mg/L		103	80 - 120
Mercury, Dissolved	0.00250	0.00258		mg/L		103	80 - 120

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213811-1

GC/MS VOA

Analysis Batch: 716949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213811-1	MW-01B	Total/NA	Water	8260B	
680-213811-2	MW-16	Total/NA	Water	8260B	
680-213811-4	MW-15	Total/NA	Water	8260B	
680-213811-6	OW-06A	Total/NA	Water	8260B	
680-213811-7	TRIP BLANK 20220408	Total/NA	Water	8260B	
MB 680-716949/45	Method Blank	Total/NA	Water	8260B	
LCS 680-716949/40	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-716949/41	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 715834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213811-1	MW-01B	Total/NA	Water	3520C	
680-213811-2	MW-16	Total/NA	Water	3520C	
680-213811-4	MW-15	Total/NA	Water	3520C	
680-213811-6	OW-06A	Total/NA	Water	3520C	
MB 680-715834/15-A	Method Blank	Total/NA	Water	3520C	
LCS 680-715834/16-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-715834/18-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-715834/17-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 680-715834/19-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 716752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213811-1	MW-01B	Total/NA	Water	8270D	715834
680-213811-2	MW-16	Total/NA	Water	8270D	715834
680-213811-4	MW-15	Total/NA	Water	8270D	715834
680-213811-6	OW-06A	Total/NA	Water	8270D	715834
MB 680-715834/15-A	Method Blank	Total/NA	Water	8270D	715834
LCS 680-715834/16-A	Lab Control Sample	Total/NA	Water	8270D	715834
LCS 680-715834/18-A	Lab Control Sample	Total/NA	Water	8270D	715834
LCSD 680-715834/17-A	Lab Control Sample Dup	Total/NA	Water	8270D	715834
LCSD 680-715834/19-A	Lab Control Sample Dup	Total/NA	Water	8270D	715834

GC Semi VOA

Prep Batch: 571965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213811-1	MW-01B	Total/NA	Water	3510C	
680-213811-2	MW-16	Total/NA	Water	3510C	
680-213811-4	MW-15	Total/NA	Water	3510C	
680-213811-6	OW-06A	Total/NA	Water	3510C	
MB 280-571965/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-571965/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 572157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213811-1	MW-01B	Total/NA	Water	8141B	571965
680-213811-2	MW-16	Total/NA	Water	8141B	571965
680-213811-4	MW-15	Total/NA	Water	8141B	571965
680-213811-6	OW-06A	Total/NA	Water	8141B	571965

GC Semi VOA (Continued)

Analysis Batch: 572157 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-571965/1-A	Method Blank	Total/NA	Water	8141B	571965
LCS 280-571965/2-A	Lab Control Sample	Total/NA	Water	8141B	571965

Prep Batch: 716141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213811-1	MW-01B	Total/NA	Water	3520C	
680-213811-2	MW-16	Total/NA	Water	3520C	
680-213811-3	MW-16F	Dissolved	Water	3520C	
680-213811-4	MW-15	Total/NA	Water	3520C	
680-213811-5	MW-15F	Dissolved	Water	3520C	
680-213811-6	OW-06A	Total/NA	Water	3520C	
MB 680-716141/17-A	Method Blank	Total/NA	Water	3520C	
LCS 680-716141/18-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-716141/19-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 716496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213811-6	OW-06A	Total/NA	Water	8081B/8082A	716141

Analysis Batch: 716504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213811-1	MW-01B	Total/NA	Water	8081B/8082A	716141
680-213811-3	MW-16F	Dissolved	Water	8081B/8082A	716141
680-213811-4	MW-15	Total/NA	Water	8081B/8082A	716141
680-213811-5	MW-15F	Dissolved	Water	8081B/8082A	716141
MB 680-716141/17-A	Method Blank	Total/NA	Water	8081B/8082A	716141
LCS 680-716141/18-A	Lab Control Sample	Total/NA	Water	8081B/8082A	716141
LCSD 680-716141/19-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	716141

Analysis Batch: 716910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213811-2	MW-16	Total/NA	Water	8081B/8082A	716141

Metals

Prep Batch: 715574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213811-1	MW-01B	Total Recoverable	Water	3005A	
680-213811-2	MW-16	Total Recoverable	Water	3005A	
680-213811-3	MW-16F	Dissolved	Water	3005A	
680-213811-4	MW-15	Total Recoverable	Water	3005A	
680-213811-5	MW-15F	Dissolved	Water	3005A	
680-213811-6	OW-06A	Total Recoverable	Water	3005A	
MB 680-715574/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-715574/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 715792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213811-1	MW-01B	Total Recoverable	Water	6010C	715574
680-213811-2	MW-16	Total Recoverable	Water	6010C	715574
680-213811-3	MW-16F	Dissolved	Water	6010C	715574

Metals (Continued)

Analysis Batch: 715792 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213811-4	MW-15	Total Recoverable	Water	6010C	715574
680-213811-5	MW-15F	Dissolved	Water	6010C	715574
680-213811-6	OW-06A	Total Recoverable	Water	6010C	715574
MB 680-715574/1-A	Method Blank	Total Recoverable	Water	6010C	715574
LCS 680-715574/2-A	Lab Control Sample	Total Recoverable	Water	6010C	715574

Prep Batch: 715892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213811-1	MW-01B	Total/NA	Water	7470A	
680-213811-2	MW-16	Total/NA	Water	7470A	
680-213811-3	MW-16F	Dissolved	Water	7470A	
680-213811-4	MW-15	Total/NA	Water	7470A	
680-213811-5	MW-15F	Dissolved	Water	7470A	
680-213811-6	OW-06A	Total/NA	Water	7470A	
MB 680-715892/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-715892/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 716326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213811-1	MW-01B	Total/NA	Water	7470A	715892
680-213811-2	MW-16	Total/NA	Water	7470A	715892
680-213811-3	MW-16F	Dissolved	Water	7470A	715892
680-213811-4	MW-15	Total/NA	Water	7470A	715892
680-213811-5	MW-15F	Dissolved	Water	7470A	715892
680-213811-6	OW-06A	Total/NA	Water	7470A	715892
MB 680-715892/1-A	Method Blank	Total/NA	Water	7470A	715892
LCS 680-715892/2-A	Lab Control Sample	Total/NA	Water	7470A	715892

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213811-1

Client Sample ID: MW-01B

Date Collected: 04/08/22 09:54
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213811-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	716949	04/22/22 05:22	EMA	TAL SAV
	Instrument ID: CMSC									
Total/NA	Prep	3520C			1011.2 mL	1 mL	715834	04/14/22 20:00	IR	TAL SAV
Total/NA	Analysis	8270D		1			716752	04/21/22 01:11	T1C	TAL SAV
	Instrument ID: CMSE									
Total/NA	Prep	3520C			1007.4 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			716504	04/19/22 22:09	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			1020.5 mL	2 mL	571965	04/15/22 14:13	KJZ	TAL DEN
Total/NA	Analysis	8141B		1			572157	04/19/22 10:30	MKW	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	715574	04/13/22 10:09	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			715792	04/13/22 20:11	BCB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	715892	04/14/22 18:01	BCB	TAL SAV
Total/NA	Analysis	7470A		1			716326	04/15/22 19:00	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: MW-16

Date Collected: 04/08/22 12:41
Date Received: 04/09/22 10:00

Lab Sample ID: 680-213811-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	716949	04/22/22 05:41	EMA	TAL SAV
	Instrument ID: CMSC									
Total/NA	Prep	3520C			1030.6 mL	1 mL	715834	04/14/22 20:00	IR	TAL SAV
Total/NA	Analysis	8270D		1			716752	04/21/22 01:35	T1C	TAL SAV
	Instrument ID: CMSE									
Total/NA	Prep	3520C			1011.1 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		5			716910	04/21/22 16:12	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1024.9 mL	2 mL	571965	04/15/22 14:13	KJZ	TAL DEN
Total/NA	Analysis	8141B		1			572157	04/19/22 11:09	MKW	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	715574	04/13/22 10:09	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			715792	04/13/22 20:14	BCB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	715892	04/14/22 18:01	BCB	TAL SAV
Total/NA	Analysis	7470A		1			716326	04/15/22 19:02	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213811-1

Client Sample ID: MW-16F

Lab Sample ID: 680-213811-3

Date Collected: 04/08/22 12:41

Matrix: Water

Date Received: 04/09/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1041.8 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			716504	04/19/22 22:41	JCK	TAL SAV
	Instrument ID: CSGK									
Dissolved	Prep	3005A			50 mL	50 mL	715574	04/13/22 10:09	JE	TAL SAV
Dissolved	Analysis	6010C		1			715792	04/13/22 20:23	BCB	TAL SAV
	Instrument ID: ICPH									
Dissolved	Prep	7470A			50 mL	50 mL	715892	04/14/22 18:01	BCB	TAL SAV
Dissolved	Analysis	7470A		1			716326	04/15/22 19:05	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: MW-15

Lab Sample ID: 680-213811-4

Date Collected: 04/08/22 12:27

Matrix: Water

Date Received: 04/09/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	716949	04/22/22 06:00	EMA	TAL SAV
	Instrument ID: CMSC									
Total/NA	Prep	3520C			1039.7 mL	1 mL	715834	04/14/22 20:00	IR	TAL SAV
Total/NA	Analysis	8270D		1			716752	04/21/22 01:59	T1C	TAL SAV
	Instrument ID: CMSE									
Total/NA	Prep	3520C			1037.8 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			716504	04/19/22 22:57	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3510C			1029.2 mL	2 mL	571965	04/15/22 14:13	KJZ	TAL DEN
Total/NA	Analysis	8141B		1			572157	04/19/22 11:48	MKW	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	715574	04/13/22 10:09	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			715792	04/13/22 20:25	BCB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	715892	04/14/22 18:01	BCB	TAL SAV
Total/NA	Analysis	7470A		1			716326	04/15/22 19:07	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: MW-15F

Lab Sample ID: 680-213811-5

Date Collected: 04/08/22 12:27

Matrix: Water

Date Received: 04/09/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1028.8 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			716504	04/19/22 23:13	JCK	TAL SAV
	Instrument ID: CSGK									
Dissolved	Prep	3005A			50 mL	50 mL	715574	04/13/22 10:09	JE	TAL SAV
Dissolved	Analysis	6010C		1			715792	04/13/22 20:28	BCB	TAL SAV
	Instrument ID: ICPH									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213811-1

Client Sample ID: MW-15F

Lab Sample ID: 680-213811-5

Date Collected: 04/08/22 12:27

Matrix: Water

Date Received: 04/09/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			50 mL	50 mL	715892	04/14/22 18:01	BCB	TAL SAV
Dissolved	Analysis	7470A		1			716326	04/15/22 19:10	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: OW-06A

Lab Sample ID: 680-213811-6

Date Collected: 04/08/22 15:36

Matrix: Water

Date Received: 04/09/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	716949	04/22/22 06:19	EMA	TAL SAV
	Instrument ID: CMSC									
Total/NA	Prep	3520C			1024.4 mL	1 mL	715834	04/14/22 20:00	IR	TAL SAV
Total/NA	Analysis	8270D		1			716752	04/21/22 02:23	T1C	TAL SAV
	Instrument ID: CMSE									
Total/NA	Prep	3520C			1016.4 mL	5 mL	716141	04/16/22 18:41	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			716496	04/19/22 21:29	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1031.1 mL	2 mL	571965	04/15/22 14:13	KJZ	TAL DEN
Total/NA	Analysis	8141B		1			572157	04/19/22 12:27	MKW	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	715574	04/13/22 10:09	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			715792	04/13/22 20:31	BCB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	715892	04/14/22 18:01	BCB	TAL SAV
Total/NA	Analysis	7470A		1			716326	04/15/22 19:13	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: TRIP BLANK 20220408

Lab Sample ID: 680-213811-7

Date Collected: 04/08/22 16:40

Matrix: Water

Date Received: 04/09/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	716949	04/22/22 01:02	EMA	TAL SAV
	Instrument ID: CMSC									

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Job ID: 680-213811-1
Project/Site: Anniston RCRA April 2022

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-22

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-09-23
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	11-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213811-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	TAL DEN
6010C	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
7470A	Preparation, Mercury	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone. 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: JA, EGK, AJV	Lab PM: Weinberg Amy	Carrier Tracking No(s):	COC No: 680-134396-49183 8
Client Contact: Mr Jerry Hopper	Phone: 713-522-6300	E-Mail: amy weinberg@Eurofinset.com	State of Origin:	Page: ~~Page 8 of 13~~ 1 of 1
Company: Solutia Inc.	PWSID:			Job #: 6122
Address: 702 Clydesdale Ave.	Due Date Requested:			
City: Anniston	TAT Requested (days): Standard			
State Zip: AL, 36201-5328	Compliance Project: Δ Yes Δ No			
Phone: 713-522-6300(Tel)	PO #: ~~45008622~~ 4920068 81			
Email: johopp@eastman com	WO #:			
Project Name: Anniston RCRA April 2022	Project #: 68018993			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL M Hexane
B NaOH N None
C Zn Acetate O AsNaO2
D Nitric Acid P Na2O4S
E - NaHSO4 Q Na2SO3
F - MeOH R Na2S2O3
G Amchlor S - H2SO4
H - Ascorbic Acid T TSP Dodecahydrate
I Ice U - Acetone
J - DI Water V MCAA
K - EDTA W pH 4-5
L EDA Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B Chlorobenzene	8260B 1,2,4-TCB/ Chlorobenzene	8270D 1,2-DCB,/1,4-DCB/4-NP/ooo-TEPP	8270D 4-NP/ooo-TEPP	8270D 1,2-DCB,/1,4-DCB/4-NP/ooo-TEPP/2,4	8270D 1,2-DCB,/1,4-DCB/4-NP/ooo-TEPP/Ind	8081B_8082A - PCB	8141B - Parathion/Sulfotepp	8141B Parathion	6010C - Cobalt	6010C - Cobalt/Manganese	7470A - Total Hg		Total Number of containers	Special Instructions/Note
			Preservation Code.				A	A	N	N	N	N	N	N	N	D	D	D			
MW-01B	4/8/22	954	G	Water			X		X				X	X		X		X		10	
MW-16	4/8/22	1241	G	Water			X		X				X	X		X		X		10	
MW-16F	4/8/22	1241	G	Water	X								X			X		X		3	
MW-15	4/8/22	1227	G	Water			X		X				X	X		X		X		10	
MW-15F	4/8/22	1227	G	Water	X								X			X		X		3	
OW-06A	4/8/22	1536	G	Water			X		X				X	X		X		X		10	
TripblankK20220408	4/8/22	1640	—	Water				X												2	
				Water																	
				Water																	
				Water																	
				Water																	

680-213811 Chain of Custody

Poison B Unknown Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Return To Client Disposal By Lab Archive For _____ Months

Deliverable Requested I II III IV Other (specify) Level II

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Jessica Alanis	4/8/22 1650	GSI		4/9 0	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:
		09/16/13/9

Ver: 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

680-213811 Chain of Custody

eurofins Environment Testing The Lea

Client Information (Sub Contract Lab)	Sampler		Carrier Tracking No(s)	COC No
				680-690051.1
Client Contact: Shipping/Receiving	Phone	E-Mail: amy.weinberg@et.eurofinsus.com	State of Origin: Alabama	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Alabama		Job #: 680-213811-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 4/21/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #			
Email	WO #			
Project Name: Anniston RCRA April 2022	Project #: 68018993			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3510C Parathion/Sulfotepp	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-01B (680-213811-1)	4/8/22	09:54 Central		Water			X	2	
MW-16 (680-213811-2)	4/8/22	12:41 Central		Water			X	2	
MW-15 (680-213811-4)	4/8/22	12:27 Central		Water			X	2	
OW-06A (680-213811-6)	4/8/22	15:36 Central		Water			X	2	

Note. Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Southeast, LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by:	Date/Time: 4/12 1400	Company	Received by:	Date/Time 4/13/22 11:00	Company
Relinquished by	Date/Time.	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.1 IR12 CF+0.1

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-213811-1

Login Number: 213811
List Number: 1
Creator: Padayao, Abigail

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-213811-1

Login Number: 213811
List Number: 2
Creator: Lee, Jerry

List Source: Eurofins Denver
List Creation: 04/13/22 04:22 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg

Project Name: CERCLA Groundwater Monitoring Project Number: 680-213886-1

Reviewer: Jessica Alanis Validation Date: 15 August 2022

Laboratory: Eurofins TestAmerica Savannah SDG #: 680-213886-1

Analytical Method (type and no.): VOCs (8260B), SVOCs (8270D), PCBs (8081B/8082A), Pesticides (8141B), PCB Homologs (680)

Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____

Sample Names: Equipment Blank, Field Duplicate 4, Field Duplicate 4F, OW-10, OW-10F, OWR-15D, OWR-15DF, T-04, T-04F, WEL-01, WEL-01F, Tripblank20220411B

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?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	Equipment Blank, Tripblank20220411B, Field Duplicate 4 (@ OW-10), Field Duplicate 4F (@ OW-10F), MS/MSD (@ OW-10)
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☐	☒	☐	Temperature correction for ORP standard value incorrectly calculated on 10 April 2022. Correct value at 12.9°C is 244 mV but was calculated and calibrated to 265 mV (9% too high) for YSI serial number c2202 (used during purging and sampling of WEL-01) and was calculated and calibrated to 282 mV (16% too high) for YSI serial number c2207 (used during purging and sampling of T-04). Temperature correction for ORP standard value incorrectly calculated on 11 April 2022. Correct value at 16.8°C is 239 mV but was calculated and calibrated to 234 mV (2% too low) for YSI serial number c2202 (used during purging and sampling of OW-10) and was calculated and calibrated to 234 mV (2% too low) for YSI serial number c2207 (used during purging and sampling of OWR-15D). Incorrect ORP measurements for these wells are not expected to impact the laboratory analytical data quality; therefore, no results are qualified on this basis. Additionally, for YSI serial number c2202, the calibration form indicates "fail" for the dissolved oxygen (DO) calibration on 10 April 2022 and 11 April 2022, but the instrument was calibrated to the proper 10.62 mg/L and 9.82 mg/L value, respectively, as indicated by the "calibrate" note, and per personal communication with the field staff member who performed the calibration. Staff member has been instructed to record in the future the instrument response that indicates the instrument has been calibrated to the calibration standard value. Additionally, for turbidity meter serial HI98703 (used during purging and sampling of WEL-01 and OW-10), the calibration form indicates "fail" for the lowest turbidity standard because its numeric deviation (15%) slightly exceeded the calibration limit of 10%. Incorrect turbidity measurements for these wells are not expected to impact the laboratory analytical quality data; therefore, no results are qualified on this basis.
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☒	☐	☐	

Note Deficiencies: The RPD between the primary and confirmation column exceeded control limits in surrogates of Method 8081B/8082A for sample T-04; however, all recoveries were within acceptance limits, so no qualification is required.

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☐	☒	☐	As a result of dilution, a subset of analytes for method 8081B/8082A in T-04 and OWR-15D did not achieve the appropriate RL of 0.5 ug/L. However, these analytes were detected above 0.5 ug/L, so no qualification is made on this basis.
f) Were any sample dilutions noted?	☒	☐	☐	For sample T-04, PCB-1248 and PCB-1254 both had a dilution factor of DL=10. For sample OWR-15D, all method 8081B/8082A compounds except for PCB-1221, had a dilution factor of DL=5. For sample OWR-15D, PCB-1221 had a dilution factor of DL=10.
g) Were any matrix problems noted?	☐	☒	☐	

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☒	☐	
d) Were analytes detected in the trip blank(s)?	☐	☒	☐	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	☒	☐	☐	Originals = OW-10 and OW-10F Duplicates (respectively) = Field Duplicate 4 and Field Duplicate 4F
b) Were field dup. precision criteria met (note RPD)?	☒	☐	☐	OW-10 and Field Duplicate 4: PCB-1248 = 11.1%, Trichloroethene = 2.7%.
c) Were lab duplicates analyzed (note original and duplicate samples)?	☒	☐	☐	Multiple LCSDs.
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	All RPDs ≤ 19%.

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☒	☐	PCB-1260 recovered low (22%) below the lab standard of 35%, but greater than the “expanded lower acceptance limit” (20%) specified in the National Functional

Guidelines for Organic Superfund Methods Data Review (NFG, 2020). Associated sample results are non-detect and are qualified UJ.

Recovery could not be calculated since sample contained high concentration of analyte? ☐ ☒ ☐ _____

b) Was MSD accuracy criteria met? ☐ ☒ ☐ PCB-1260 recovered low (21%) below the lab standard of 35%, but greater than the "expanded lower acceptance limit" (20%) specified in NFG, 2020. Associated sample results are non-detect and are qualified UJ.

Recovery could not be calculated since sample contained high concentration of analyte? ☐ ☒ ☐ _____

c) Were MS/MSD precision criteria met? ☒ ☐ ☐ _____

Surrogate Spikes	**YES**	**NO**	**NA**	**COMMENTS**
a) Were surrogate recoveries within control limits?	☐	☒	☐	Tetrachloro-m-xylene (TCX) recovered low (below the lab standard of 40%) for sample MS (32%), MSD (32%), OW-10 (33%), and Field Duplicate 4 (32%) for Aroclor analysis by Method 8081B/8082A, but greater than the "expanded lower acceptance limit" (10%) specified in the NFG, 2020. Associated sample results a qualified UJ if non-detect and J if detected.
b) Were surrogate recoveries not calculated due to dilutions?	☐	☒	☐	_____

Comments/Notes:

_____

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
OW-10	PCB-1260	<0.5 ug/L	UJ	Low MS/MSD recovery, low TCX recovery
OW-10	PCB-1016	<0.5 ug/L	UJ	Low TCX recovery
OW-10	PCB-1221	<0.5 ug/L	UJ	Low TCX recovery
OW-10	PCB-1232	<0.5 ug/L	UJ	Low TCX recovery
OW-10	PCB-1242	<0.5 ug/L	UJ	Low TCX recovery
OW-10	PCB-1248	1.7 ug/L	J	Low TCX recovery
OW-10	PCB-1254	<0.5 ug/L	UJ	Low TCX recovery
OW-10	PCB-1268	<0.5 ug/L	UJ	Low TCX recovery
Field Duplicate 4	PCB-1016	<0.5 ug/L	UJ	Low TCX recovery
Field Duplicate 4	PCB-1221	<0.5 ug/L	UJ	Low TCX recovery
Field Duplicate 4	PCB-1232	<0.5 ug/L	UJ	Low TCX recovery
Field Duplicate 4	PCB-1242	<0.5 ug/L	UJ	Low TCX recovery
Field Duplicate 4	PCB-1248	1.9 ug/L	J	Low TCX recovery
Field Duplicate 4	PCB-1254	<0.5 ug/L	UJ	Low TCX recovery
Field Duplicate 4	PCB-1260	<0.5 ug/L	UJ	Low TCX recovery
Field Duplicate 4	PCB-1268	<0.5 ug/L	UJ	Low TCX recovery

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Signature: Jessica Adams Date: 15 August 2022

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: CERCLA Groundwater Monitoring Project Number: 680-213886-1
Reviewer: Jessica Alanis Validation Date: 15 August 2022

Laboratory: Eurofins TestAmerica Savannah SDG #: 680-213886-1
Analytical Method (type and no.): Metals (6010C), Mercury (7470A)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: Equipment Blank, Field Duplicate 4, Field Duplicate 4F, OW-10, OW-10F, T-04, T-04F, WEL-01, WEL-01F

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?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	Equipment Blank, Field Duplicate 4 (@OW-10), Field Duplicate 4F (@OW-10F), MS/MSD (@ OW-10)
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☐	☒	☐	Temperature correction for ORP standard value incorrectly calculated on 10 April 2022. Correct value at 12.9°C is 244 mV but was calculated and calibrated to 265 mV (9% too high) for YSI serial number c2202 (used during purging and sampling of WEL-01) and was calculated and calibrated to 282 mV (16% too high) for YSI serial number c2207 (used during purging and sampling of T-04). Temperature correction for ORP standard value incorrectly calculated on 11 April 2022. Correct value at 16.8°C is 239 mV but was calculated and calibrated to 234 mV (2% too low) for YSI serial number c2202 (used during purging and sampling of OW-10). Incorrect ORP measurements for these wells are not expected to impact the laboratory analytical data quality; therefore, no results are qualified on this basis. Additionally, for YSI serial number c2202, the calibration form indicates "fail" for the dissolved oxygen (DO) calibration on 10 April 2022 and 11 April 2022, but the instrument was calibrated to the proper 10.62 mg/L and 9.82 mg/L value, respectively as indicated by the "calibrate" note, and per personal communication with the field staff member who performed the calibration. Staff member has been instructed to record in the future the instrument response that indicates the instrument has been calibrated to the calibration standard value. Additionally, for turbidity meter serial HI98703 (used during purging and sampling of WEL-01 and OW-10), the calibration form indicates "fail" for the lowest turbidity standard because its numeric deviation (15%) slightly exceeded the calibration limit of 10%. Incorrect turbidity measurements for these wells are not expected to impact the laboratory analytical quality data; therefore, no results are qualified on this basis.
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	

Note Deficiencies: _____

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☐	☒	☐	As a result of dilution, a subset of analytes for Method 7470A in OW-10 and OW-10F did not achieve the appropriate RL of 0.2 ug/L. However, these analytes were detected above 0.2 ug/L, so no qualification is made on this basis.
f) Were any sample dilutions noted?	☐	☒	☐	For samples OW-10 and OW-10F, Mercury had a dilution factor of DL= 10.
g) Were any matrix problems noted?	☐	☒	☐	

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☒	☐	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	☒	☐	☐	Originals = OW-10 and OW-10F Duplicates (respectively) = Field Duplicate 4 and Field Duplicate 4F
b) Were field dup. precision criteria met (note RPD)?	☐	☒	☐	OW-10 and Field Duplicate 4: Manganese = 0%, Mercury = 135.7%. OW-10F and Field Duplicate 4F: Manganese = 9.5%, Mercury = 142.1%. Mercury detections for OW-10, OW10F, Field Duplicate 4, and Field Duplicate 4F are qualified (J) on this basis.
c) Were lab duplicates analyzed (note original and duplicate samples)?	☐	☒	☐	
d) Were lab dup. precision criteria met (note RPD)?	☐	☐	☒	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☐	☒	For Method 7470A, the MS accuracy could not be evaluated since the sample contained high concentration of the analyte.
Recovery could not be calculated since sample contained high concentration of analyte?	☒	☐	☐	For Method 7470A, the analyte concentration in the original sample is more than four times greater than the spike concentration.
b) Was MSD accuracy criteria met?	☐	☐	☒	For Method 7470A, the MSD accuracy could not be evaluated since the sample contained high concentration of the analyte.
Recovery could not be calculated since sample contained high concentration of analyte?	☒	☐	☐	For Method 7470A, the analyte concentration in the original sample is more than four times greater than the spike concentration. All applicable recovery limits were met in the MSD.
Were MS/MSD precision criteria met?	☐	☐	☒	For Method 7470A, the MS/MSD precision criteria could not be evaluated since the sample contained high concentration of the analyte.

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
OW-10	Mercury	12 ug/L	J	Original and duplicate sample RPD exceeds control limits
Field Duplicate 4	Mercury	2.3 ug/L	J	Original and duplicate sample RPD exceeds control limits
OW-10F	Mercury	13 ug/L	J	Original and duplicate sample RPD exceeds control limits
Field Duplicate 4F	Mercury	2.2 ug/L	J	Original and duplicate sample RPD exceeds control limits

Signature: Jessica Adams

Date: 15 August 2022

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-213886-1
Client Project/Site: Anniston CERCLA April 2022

For:
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Attn: Ben Smith

Amy Weinberg

Authorized for release by:
4/29/2022 10:21:53 AM

Amy Weinberg, Project Manager II
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213886-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-213886-1	T-04	Water	04/10/22 15:26	04/12/22 10:40
680-213886-2	T-04F	Water	04/10/22 15:26	04/12/22 10:40
680-213886-3	WEL-01	Water	04/10/22 15:52	04/12/22 10:40
680-213886-4	WEL-01F	Water	04/10/22 15:52	04/12/22 10:40
680-213886-5	OW-10	Water	04/11/22 07:58	04/12/22 10:40
680-213886-6	Field Duplicate 4	Water	04/11/22 00:00	04/12/22 10:40
680-213886-7	OW-10F	Water	04/11/22 07:58	04/12/22 10:40
680-213886-8	Field Duplicate 4F	Water	04/11/22 00:00	04/12/22 10:40
680-213886-9	OWR-15D	Water	04/11/22 10:55	04/12/22 10:40
680-213886-10	OWR-15DF	Water	04/11/22 10:55	04/12/22 10:40
680-213886-11	Trip Blank 20220411B	Water	04/11/22 13:50	04/12/22 10:40
680-213886-12	Equipment Blank	Water	04/11/22 14:00	04/12/22 10:40

Job ID: 680-213886-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-213886-1

Comments
No additional comments.

Receipt
The samples were received on 4/12/2022 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.2º C, 0.6º C, 1.1º C and 2.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8081B/8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: OW-10 (680-213886-5), OW-10 MS (680-213886-5[MS]), OW-10 MSD (680-213886-5[MSD]) and Field Duplicate 4 (680-213886-6). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 7470A: The following samples were diluted to bring the concentration of target analytes within the calibration range: OW-10 (680-213886-5), OW-10 MS (680-213886-5[MS]), OW-10 MSD (680-213886-5[MSD]) and OW-10F (680-213886-7). Elevated reporting limits (RLs) are provided.

Method 7470A: The matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 680-716458 and analytical batch 680-716634 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Dioxin Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: T-04

Date Collected: 04/10/22 15:26
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213886-1

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:15	1
PCB-1221	**1.2**		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:15	1
PCB-1232	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:15	1
PCB-1242	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:15	1
PCB-1248	**59**		0.88	0.88	ug/L		04/22/22 22:30	04/27/22 18:31	10
PCB-1254	**16**		0.88	0.88	ug/L		04/22/22 22:30	04/27/22 18:31	10
PCB-1260	<0.50		0.50	0.059	ug/L		04/22/22 22:30	04/27/22 18:15	1
PCB-1268	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*14 - 130*	*04/22/22 22:30*	*04/27/22 18:15*	*1*
Tetrachloro-m-xylene	*42*	*p*	*40 - 130*	*04/22/22 22:30*	*04/27/22 18:15*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.16**		0.010	0.0013	mg/L		04/14/22 15:38	04/18/22 19:24	1

Client Sample ID: T-04F

Date Collected: 04/10/22 15:26
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213886-2

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 18:47	1
PCB-1221, Dissolved	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 18:47	1
PCB-1232, Dissolved	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 18:47	1
PCB-1242, Dissolved	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 18:47	1
PCB-1248, Dissolved	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 18:47	1
PCB-1254, Dissolved	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 18:47	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		04/22/22 22:30	04/27/22 18:47	1
PCB-1268, Dissolved	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*15*		*14 - 130*	*04/22/22 22:30*	*04/27/22 18:47*	*1*
Tetrachloro-m-xylene	*59*		*40 - 130*	*04/22/22 22:30*	*04/27/22 18:47*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**0.14**		0.010	0.0013	mg/L		04/14/22 16:21	04/18/22 16:25	1

Client Sample ID: WEL-01

Date Collected: 04/10/22 15:52
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213886-3

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 16:48	1
PCB-1221	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 16:48	1
PCB-1232	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 16:48	1
PCB-1242	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 16:48	1
PCB-1248	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 16:48	1

Client Sample ID: WEL-01

Date Collected: 04/10/22 15:52
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213886-3
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 16:48	1
PCB-1260	<0.50		0.50	0.059	ug/L		04/22/22 22:30	04/27/22 16:48	1
PCB-1268	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*14 - 130*	*04/22/22 22:30*	*04/27/22 16:48*	*1*
Tetrachloro-m-xylene	*59*		*40 - 130*	*04/22/22 22:30*	*04/27/22 16:48*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.032**		0.010	0.0013	mg/L		04/14/22 16:21	04/18/22 16:27	1

Client Sample ID: WEL-01F

Date Collected: 04/10/22 15:52
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213886-4
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:59	1
PCB-1221, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:59	1
PCB-1232, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:59	1
PCB-1242, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:59	1
PCB-1248, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:59	1
PCB-1254, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:59	1
PCB-1260, Dissolved	<0.50		0.50	0.059	ug/L		04/22/22 22:30	04/27/22 17:59	1
PCB-1268, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*14*		*14 - 130*	*04/22/22 22:30*	*04/27/22 17:59*	*1*
Tetrachloro-m-xylene	*59*		*40 - 130*	*04/22/22 22:30*	*04/27/22 17:59*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	**0.016**		0.010	0.0013	mg/L		04/14/22 16:21	04/18/22 16:30	1

Client Sample ID: OW-10

Date Collected: 04/11/22 07:58
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213886-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**3.7**		1.0	0.20	ug/L			04/22/22 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*04/22/22 20:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*04/22/22 20:46*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/22/22 20:46*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*04/22/22 20:46*	*1*

Client Sample ID: OW-10

Date Collected: 04/11/22 07:58
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213886-5

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:02	1
PCB-1221	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:02	1
PCB-1232	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:02	1
PCB-1242	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:02	1
PCB-1248	**1.7**		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:02	1
PCB-1254	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:02	1
PCB-1260	<0.50	F1	0.50	0.059	ug/L		04/22/22 22:30	04/27/22 17:02	1
PCB-1268	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*17*		*14 - 130*	*04/22/22 22:30*	*04/27/22 17:02*	*1*
Tetrachloro-m-xylene	*33*	*S1-*	*40 - 130*	*04/22/22 22:30*	*04/27/22 17:02*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.00030	mg/L		04/14/22 16:21	04/18/22 16:10	1
Manganese	**1.1**		0.010	0.0013	mg/L		04/14/22 16:21	04/18/22 16:10	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.012**		0.00080	0.00080	mg/L		04/19/22 10:38	04/20/22 08:29	10

Client Sample ID: Field Duplicate 4

Date Collected: 04/11/22 00:00
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213886-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**3.6**		1.0	0.20	ug/L			04/22/22 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*04/22/22 14:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*04/22/22 14:54*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/22/22 14:54*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/22/22 14:54*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:16	1
PCB-1221	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:16	1
PCB-1232	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:16	1
PCB-1242	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:16	1
PCB-1248	**1.9**		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:16	1
PCB-1254	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:16	1
PCB-1260	<0.50		0.50	0.059	ug/L		04/22/22 22:30	04/27/22 17:16	1
PCB-1268	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*15*		*14 - 130*	*04/22/22 22:30*	*04/27/22 17:16*	*1*
Tetrachloro-m-xylene	*32*	*S1-*	*40 - 130*	*04/22/22 22:30*	*04/27/22 17:16*	*1*

Client Sample ID: Field Duplicate 4

Lab Sample ID: 680-213886-6
Matrix: Water
Date Collected: 04/11/22 00:00
Date Received: 04/12/22 10:40

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.00030	mg/L		04/14/22 16:21	04/18/22 17:20	1
Manganese	**1.1**		0.010	0.0013	mg/L		04/14/22 16:21	04/18/22 17:20	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0023**		0.00020	0.000080	mg/L		04/19/22 10:38	04/19/22 18:25	1

Client Sample ID: OW-10F

Lab Sample ID: 680-213886-7
Matrix: Water
Date Collected: 04/11/22 07:58
Date Received: 04/12/22 10:40

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 17:31	1
PCB-1221, Dissolved	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 17:31	1
PCB-1232, Dissolved	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 17:31	1
PCB-1242, Dissolved	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 17:31	1
PCB-1248, Dissolved	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 17:31	1
PCB-1254, Dissolved	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 17:31	1
PCB-1260, Dissolved	<0.50		0.50	0.058	ug/L		04/22/22 22:30	04/27/22 17:31	1
PCB-1268, Dissolved	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*28*		*14 - 130*	*04/22/22 22:30*	*04/27/22 17:31*	*1*
Tetrachloro-m-xylene	*40*		*40 - 130*	*04/22/22 22:30*	*04/27/22 17:31*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium, Dissolved	<0.0040		0.0040	0.00030	mg/L		04/14/22 16:21	04/18/22 17:23	1
Manganese, Dissolved	**1.1**		0.010	0.0013	mg/L		04/14/22 16:21	04/18/22 17:23	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	**0.013**		0.00080	0.00080	mg/L		04/19/22 10:38	04/20/22 08:37	10

Client Sample ID: Field Duplicate 4F

Lab Sample ID: 680-213886-8
Matrix: Water
Date Collected: 04/11/22 00:00
Date Received: 04/12/22 10:40

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 17:45	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 17:45	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 17:45	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 17:45	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 17:45	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 17:45	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		04/22/22 22:30	04/27/22 17:45	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*25*		*14 - 130*	*04/22/22 22:30*	*04/27/22 17:45*	*1*

Client Sample ID: Field Duplicate 4F

Lab Sample ID: 680-213886-8
Matrix: Water
Date Collected: 04/11/22 00:00
Date Received: 04/12/22 10:40

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*44*		*40 - 130*	*04/22/22 22:30*	*04/27/22 17:45*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium, Dissolved	<0.0040		0.0040	0.00030	mg/L		04/14/22 16:21	04/18/22 17:26	1
Manganese, Dissolved	**1.0**		0.010	0.0013	mg/L		04/14/22 16:21	04/18/22 17:26	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	**0.0022**		0.00020	0.000080	mg/L		04/19/22 10:38	04/19/22 18:30	1

Client Sample ID: OWR-15D

Lab Sample ID: 680-213886-9
Matrix: Water
Date Collected: 04/11/22 10:55
Date Received: 04/12/22 10:40

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.44	ug/L		04/22/22 22:30	04/27/22 19:19	5
PCB-1221	**51**		0.89	0.89	ug/L		04/22/22 22:30	04/27/22 19:35	10
PCB-1232	<0.50		0.50	0.44	ug/L		04/22/22 22:30	04/27/22 19:19	5
PCB-1242	<0.50		0.50	0.44	ug/L		04/22/22 22:30	04/27/22 19:19	5
PCB-1248	<0.50		0.50	0.44	ug/L		04/22/22 22:30	04/27/22 19:19	5
PCB-1254	**0.84**		0.50	0.44	ug/L		04/22/22 22:30	04/27/22 19:19	5
PCB-1260	<0.50		0.50	0.30	ug/L		04/22/22 22:30	04/27/22 19:19	5
PCB-1268	<0.50		0.50	0.44	ug/L		04/22/22 22:30	04/27/22 19:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*17*		*14 - 130*	*04/22/22 22:30*	*04/27/22 19:19*	*5*
Tetrachloro-m-xylene	*44*		*40 - 130*	*04/22/22 22:30*	*04/27/22 19:19*	*5*

Client Sample ID: OWR-15DF

Lab Sample ID: 680-213886-10
Matrix: Water
Date Collected: 04/11/22 10:55
Date Received: 04/12/22 10:40

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:59	1
PCB-1221, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:59	1
PCB-1232, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:59	1
PCB-1242, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:59	1
PCB-1248, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:59	1
PCB-1254, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:59	1
PCB-1260, Dissolved	<0.50		0.50	0.059	ug/L		04/22/22 22:30	04/27/22 17:59	1
PCB-1268, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*14*		*14 - 130*	*04/22/22 22:30*	*04/27/22 17:59*	*1*
Tetrachloro-m-xylene	*54*		*40 - 130*	*04/22/22 22:30*	*04/27/22 17:59*	*1*

Client Sample ID: Trip Blank 20220411B

Lab Sample ID: 680-213886-11

Date Collected: 04/11/22 13:50

Matrix: Water

Date Received: 04/12/22 10:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.0		1.0	0.20	ug/L			04/22/22 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*04/22/22 14:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*04/22/22 14:10*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/22/22 14:10*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/22/22 14:10*	*1*

Client Sample ID: Equipment Blank

Lab Sample ID: 680-213886-12

Date Collected: 04/11/22 14:00

Matrix: Water

Date Received: 04/12/22 10:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.0		1.0	0.20	ug/L			04/22/22 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*04/22/22 15:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*04/22/22 15:16*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*04/22/22 15:16*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/22/22 15:16*	*1*

Method: 680 - Polychlorinated Biphenyls by GCMS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	<0.10		0.10	0.019	ug/L		04/17/22 15:00	04/19/22 16:57	1
Total Heptachlorobiphenyls	<0.30		0.30	0.039	ug/L		04/17/22 15:00	04/19/22 16:57	1
Total Hexachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 16:57	1
Total Monochlorobiphenyls	<0.10		0.10	0.019	ug/L		04/17/22 15:00	04/19/22 16:57	1
Total Nonachlorobiphenyls	<0.50		0.50	0.19	ug/L		04/17/22 15:00	04/19/22 16:57	1
Total Octachlorobiphenyls	<0.30		0.30	0.049	ug/L		04/17/22 15:00	04/19/22 16:57	1
Total Pentachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 16:57	1
Total Tetrachlorobiphenyls	<0.20		0.20	0.029	ug/L		04/17/22 15:00	04/19/22 16:57	1
Total Trichlorobiphenyls	<0.10		0.10	0.019	ug/L		04/17/22 15:00	04/19/22 16:57	1
DCB Decachlorobiphenyl	<0.50		0.50	0.19	ug/L		04/17/22 15:00	04/19/22 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-52L	*62*		*42 - 105*	*04/17/22 15:00*	*04/19/22 16:57*	*1*
PCB-138L	*65*		*39 - 131*	*04/17/22 15:00*	*04/19/22 16:57*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		04/14/22 20:00	04/20/22 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*32 - 113*	*04/14/22 20:00*	*04/20/22 00:41*	*1*
2-Fluorophenol	*57*		*26 - 109*	*04/14/22 20:00*	*04/20/22 00:41*	*1*
Nitrobenzene-d5	*69*		*32 - 118*	*04/14/22 20:00*	*04/20/22 00:41*	*1*
Phenol-d5	*58*		*27 - 110*	*04/14/22 20:00*	*04/20/22 00:41*	*1*
Terphenyl-d14	*62*		*10 - 126*	*04/14/22 20:00*	*04/20/22 00:41*	*1*
2,4,6-Tribromophenol	*72*		*39 - 124*	*04/14/22 20:00*	*04/20/22 00:41*	*1*

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213886-1

Client Sample ID: Equipment Blank

Date Collected: 04/11/22 14:00
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213886-12
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.086	ug/L		04/22/22 22:30	04/27/22 18:14	1
PCB-1221	<0.50		0.50	0.086	ug/L		04/22/22 22:30	04/27/22 18:14	1
PCB-1232	<0.50		0.50	0.086	ug/L		04/22/22 22:30	04/27/22 18:14	1
PCB-1242	<0.50		0.50	0.086	ug/L		04/22/22 22:30	04/27/22 18:14	1
PCB-1248	<0.50		0.50	0.086	ug/L		04/22/22 22:30	04/27/22 18:14	1
PCB-1254	<0.50		0.50	0.086	ug/L		04/22/22 22:30	04/27/22 18:14	1
PCB-1260	<0.50		0.50	0.057	ug/L		04/22/22 22:30	04/27/22 18:14	1
PCB-1268	<0.50		0.50	0.086	ug/L		04/22/22 22:30	04/27/22 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*14 - 130*	*04/22/22 22:30*	*04/27/22 18:14*	*1*
Tetrachloro-m-xylene	*70*		*40 - 130*	*04/22/22 22:30*	*04/27/22 18:14*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/18/22 21:41	04/23/22 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*88*		*60 - 154*	*04/18/22 21:41*	*04/23/22 00:46*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.00030	mg/L		04/14/22 16:21	04/18/22 17:28	1
Manganese	<0.010		0.010	0.0013	mg/L		04/14/22 16:21	04/18/22 17:28	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/19/22 10:38	04/19/22 18:32	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-717079/9
Matrix: Water
Analysis Batch: 717079

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.0		1.0	0.20	ug/L			04/22/22 13:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/22/22 13:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*04/22/22 13:48*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*04/22/22 13:48*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*04/22/22 13:48*	*1*

Lab Sample ID: LCS 680-717079/4
Matrix: Water
Analysis Batch: 717079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene			50.0	49.4		ug/L		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 680-717079/5
Matrix: Water
Analysis Batch: 717079

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene			50.0	49.5		ug/L		99	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 680-213886-5 MS
Matrix: Water
Analysis Batch: 717079

Client Sample ID: OW-10 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene	3.7		50.0	53.1		ug/L		99	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-213886-5 MSD
Matrix: Water
Analysis Batch: 717079

Client Sample ID: OW-10 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene	3.7		50.0	52.9		ug/L		99	70 - 130	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

Method: 680 - Polychlorinated Biphenyls by GCMS

Lab Sample ID: MB 410-245356/1-A
Matrix: Water
Analysis Batch: 245972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245356

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dichlorobiphenyls	<0.10		0.10	0.020	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Heptachlorobiphenyls	<0.30		0.30	0.040	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Hexachlorobiphenyls	<0.20		0.20	0.030	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Monochlorobiphenyls	<0.10		0.10	0.020	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Nonachlorobiphenyls	<0.50		0.50	0.20	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Octachlorobiphenyls	<0.30		0.30	0.050	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Pentachlorobiphenyls	<0.20		0.20	0.030	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Tetrachlorobiphenyls	<0.20		0.20	0.030	ug/L		04/17/22 15:00	04/19/22 12:26	1
Total Trichlorobiphenyls	<0.10		0.10	0.020	ug/L		04/17/22 15:00	04/19/22 12:26	1
DCB Decachlorobiphenyl	<0.50		0.50	0.20	ug/L		04/17/22 15:00	04/19/22 12:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-52L	*61*		*42 - 105*	*04/17/22 15:00*	*04/19/22 12:26*	*1*
PCB-138L	*70*		*39 - 131*	*04/17/22 15:00*	*04/19/22 12:26*	*1*

Lab Sample ID: LCS 410-245356/2-A
Matrix: Water
Analysis Batch: 245972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245356

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dichlorobiphenyls	1.25	0.850		ug/L		68	37 - 100
Total Heptachlorobiphenyls	3.76	2.67		ug/L		71	47 - 115
Total Hexachlorobiphenyls	2.51	1.78		ug/L		71	48 - 115
Total Monochlorobiphenyls	1.25	0.821		ug/L		66	33 - 91
Total Octachlorobiphenyls	3.75	2.68		ug/L		71	50 - 115
Total Pentachlorobiphenyls	2.50	1.73		ug/L		69	49 - 111
Total Tetrachlorobiphenyls	2.50	1.78		ug/L		71	41 - 96
Total Trichlorobiphenyls	1.26	0.896		ug/L		71	37 - 96
DCB Decachlorobiphenyl	6.28	5.10		ug/L		81	52 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-52L	*68*		*42 - 105*
PCB-138L	*67*		*39 - 131*

Method: 680 - Polychlorinated Biphenyls by GCMS

Lab Sample ID: LCSD 410-245356/3-A
Matrix: Water
Analysis Batch: 245972

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 245356

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dichlorobiphenyls			1.25	0.884		ug/L		71	37 - 100	4	30
Total Heptachlorobiphenyls			3.76	2.69		ug/L		72	47 - 115	1	30
Total Hexachlorobiphenyls			2.51	1.85		ug/L		74	48 - 115	4	30
Total Monochlorobiphenyls			1.25	0.820		ug/L		66	33 - 91	0	30
Total Octachlorobiphenyls			3.75	2.82		ug/L		75	50 - 115	5	30
Total Pentachlorobiphenyls			2.50	1.82		ug/L		73	49 - 111	5	30
Total Tetrachlorobiphenyls			2.50	1.80		ug/L		72	41 - 96	1	30
Total Trichlorobiphenyls			1.26	0.884		ug/L		70	37 - 96	1	30
DCB Decachlorobiphenyl			6.28	5.17		ug/L		82	52 - 119	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
PCB-52L	*68*		*42 - 105*
PCB-138L	*70*		*39 - 131*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-715834/15-A
Matrix: Water
Analysis Batch: 716544

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715834

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		04/14/22 20:00	04/19/22 19:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*32 - 113*	*04/14/22 20:00*	*04/19/22 19:31*	*1*
2-Fluorophenol	*53*		*26 - 109*	*04/14/22 20:00*	*04/19/22 19:31*	*1*
Nitrobenzene-d5	*73*		*32 - 118*	*04/14/22 20:00*	*04/19/22 19:31*	*1*
Phenol-d5	*53*		*27 - 110*	*04/14/22 20:00*	*04/19/22 19:31*	*1*
Terphenyl-d14	*85*		*10 - 126*	*04/14/22 20:00*	*04/19/22 19:31*	*1*
2,4,6-Tribromophenol	*78*		*39 - 124*	*04/14/22 20:00*	*04/19/22 19:31*	*1*

Lab Sample ID: LCS 680-715834/16-A
Matrix: Water
Analysis Batch: 716544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715834

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitrophenol			200	164		ug/L		82	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*32 - 113*
2-Fluorophenol	*62*		*26 - 109*
Nitrobenzene-d5	*72*		*32 - 118*
Phenol-d5	*66*		*27 - 110*
Terphenyl-d14	*88*		*10 - 126*
2,4,6-Tribromophenol	*80*		*39 - 124*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-715834/17-A
Matrix: Water
Analysis Batch: 716544

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 715834

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitrophenol			200	163		ug/L		82	44 - 130	0	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*68*		*32 - 113*
2-Fluorophenol	*63*		*26 - 109*
Nitrobenzene-d5	*70*		*32 - 118*
Phenol-d5	*66*		*27 - 110*
Terphenyl-d14	*89*		*10 - 126*
2,4,6-Tribromophenol	*80*		*39 - 124*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-717264/21-A
Matrix: Water
Analysis Batch: 718000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 717264

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1221	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1232	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1242	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1248	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1254	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1260	<0.50		0.50	0.060	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1268	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*14 - 130*	*04/22/22 22:30*	*04/27/22 16:19*	*1*
Tetrachloro-m-xylene	*68*		*40 - 130*	*04/22/22 22:30*	*04/27/22 16:19*	*1*

Lab Sample ID: LCS 680-717264/22-A
Matrix: Water
Analysis Batch: 718000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 717264

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			3.00	2.06		ug/L		69	44 - 130		
PCB-1016, Dissolved			3.00	2.06		ug/L		69	44 - 130		
PCB-1260			3.00	2.30		ug/L		77	35 - 130		
PCB-1260, Dissolved			3.00	2.30		ug/L		77	35 - 130		

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	70		14 - 130
Tetrachloro-m-xylene	69		40 - 130

Lab Sample ID: 680-213886-5 MS
Matrix: Water
Analysis Batch: 718000

Client Sample ID: OW-10 MS
Prep Type: Total/NA
Prep Batch: 717264

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<0.50		2.88	1.86		ug/L		65	44 - 130
PCB-1260	<0.50	F1	2.88	0.623	F1	ug/L		22	35 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	16		14 - 130
Tetrachloro-m-xylene	32	S1-	40 - 130

Lab Sample ID: 680-213886-5 MSD
Matrix: Water
Analysis Batch: 718000

Client Sample ID: OW-10 MSD
Prep Type: Total/NA
Prep Batch: 717264

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.50		2.96	1.76		ug/L		59	44 - 130	6	50
PCB-1260	<0.50	F1	2.96	0.614	F1	ug/L		21	35 - 130	1	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	15		14 - 130
Tetrachloro-m-xylene	32	S1-	40 - 130

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-572218/1-A
Matrix: Water
Analysis Batch: 572720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 572218

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/18/22 21:41	04/22/22 14:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	75		60 - 154	04/18/22 21:41	04/22/22 14:22	1

Lab Sample ID: LCS 280-572218/2-A
Matrix: Water
Analysis Batch: 572720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 572218

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	4.00	3.02		ug/L		75	55 - 107

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Triphenylphosphate	89		60 - 154

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: LCSD 280-572218/3-A
Matrix: Water
Analysis Batch: 572720

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 572218

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Parathion			4.00	3.65		ug/L		91	55 - 107	19	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Triphenylphosphate	*98*		*60 - 154*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-715858/1-A
Matrix: Water
Analysis Batch: 716429

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 715858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.010		0.010	0.0013	mg/L		04/14/22 15:38	04/18/22 19:04	1

Lab Sample ID: LCS 680-715858/2-A
Matrix: Water
Analysis Batch: 716429

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 715858

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese			0.400	0.406		mg/L		101	80 - 120

Lab Sample ID: MB 680-715873/1-A
Matrix: Water
Analysis Batch: 716429

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 715873

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0040		0.0040	0.00030	mg/L		04/14/22 16:21	04/18/22 16:04	1
Beryllium, Dissolved	<0.0040		0.0040	0.00030	mg/L		04/14/22 16:21	04/18/22 16:04	1
Manganese	<0.010		0.010	0.0013	mg/L		04/14/22 16:21	04/18/22 16:04	1
Manganese, Dissolved	<0.010		0.010	0.0013	mg/L		04/14/22 16:21	04/18/22 16:04	1

Lab Sample ID: LCS 680-715873/2-A
Matrix: Water
Analysis Batch: 716429

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 715873

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium			0.0500	0.0520		mg/L		104	80 - 120
Beryllium, Dissolved			0.0500	0.0520		mg/L		104	80 - 120
Manganese			0.400	0.412		mg/L		103	80 - 120
Manganese, Dissolved			0.400	0.412		mg/L		103	80 - 120

Lab Sample ID: 680-213886-5 MS
Matrix: Water
Analysis Batch: 716429

Client Sample ID: OW-10 MS
Prep Type: Total Recoverable
Prep Batch: 715873

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0040		0.0500	0.0524		mg/L		98	75 - 125
Manganese	1.1		0.400	1.46		mg/L		86	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 680-213886-5 MSD
Matrix: Water
Analysis Batch: 716429

Client Sample ID: OW-10 MSD
Prep Type: Total Recoverable
Prep Batch: 715873

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.0040		0.0500	0.0521		mg/L		97	75 - 125	1	20
Manganese	1.1		0.400	1.44		mg/L		81	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-716458/1-A
Matrix: Water
Analysis Batch: 716636

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716458

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/19/22 10:38	04/19/22 18:12	1
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/19/22 10:38	04/19/22 18:12	1

Lab Sample ID: LCS 680-716458/2-A
Matrix: Water
Analysis Batch: 716636

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716458

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00254		mg/L		102	80 - 120
Mercury, Dissolved	0.00250	0.00254		mg/L		102	80 - 120

Lab Sample ID: 680-213886-5 MS
Matrix: Water
Analysis Batch: 716634

Client Sample ID: OW-10 MS
Prep Type: Total/NA
Prep Batch: 716458

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.012		0.00100	0.0111	4	mg/L		-51	80 - 120

Lab Sample ID: 680-213886-5 MSD
Matrix: Water
Analysis Batch: 716634

Client Sample ID: OW-10 MSD
Prep Type: Total/NA
Prep Batch: 716458

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.012		0.00100	0.0127	4	mg/L		107	80 - 120	13	20

GC/MS VOA

Analysis Batch: 717079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213886-5	OW-10	Total/NA	Water	8260B	
680-213886-6	Field Duplicate 4	Total/NA	Water	8260B	
680-213886-11	Trip Blank 20220411B	Total/NA	Water	8260B	
680-213886-12	Equipment Blank	Total/NA	Water	8260B	
MB 680-717079/9	Method Blank	Total/NA	Water	8260B	
LCS 680-717079/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-717079/5	Lab Control Sample Dup	Total/NA	Water	8260B	
680-213886-5 MS	OW-10 MS	Total/NA	Water	8260B	
680-213886-5 MSD	OW-10 MSD	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 245356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213886-12	Equipment Blank	Total/NA	Water	680	
MB 410-245356/1-A	Method Blank	Total/NA	Water	680	
LCS 410-245356/2-A	Lab Control Sample	Total/NA	Water	680	
LCSD 410-245356/3-A	Lab Control Sample Dup	Total/NA	Water	680	

Analysis Batch: 245972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213886-12	Equipment Blank	Total/NA	Water	680	245356
MB 410-245356/1-A	Method Blank	Total/NA	Water	680	245356
LCS 410-245356/2-A	Lab Control Sample	Total/NA	Water	680	245356
LCSD 410-245356/3-A	Lab Control Sample Dup	Total/NA	Water	680	245356

Prep Batch: 715834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213886-12	Equipment Blank	Total/NA	Water	3520C	
MB 680-715834/15-A	Method Blank	Total/NA	Water	3520C	
LCS 680-715834/16-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-715834/17-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 716544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213886-12	Equipment Blank	Total/NA	Water	8270D	715834
MB 680-715834/15-A	Method Blank	Total/NA	Water	8270D	715834
LCS 680-715834/16-A	Lab Control Sample	Total/NA	Water	8270D	715834
LCSD 680-715834/17-A	Lab Control Sample Dup	Total/NA	Water	8270D	715834

GC Semi VOA

Prep Batch: 572218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213886-12	Equipment Blank	Total/NA	Water	3510C	
MB 280-572218/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-572218/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-572218/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 572720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213886-12	Equipment Blank	Total/NA	Water	8141B	572218

GC Semi VOA (Continued)

Analysis Batch: 572720 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-572218/1-A	Method Blank	Total/NA	Water	8141B	572218
LCS 280-572218/2-A	Lab Control Sample	Total/NA	Water	8141B	572218
LCSD 280-572218/3-A	Lab Control Sample Dup	Total/NA	Water	8141B	572218

Prep Batch: 717264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213886-1	T-04	Total/NA	Water	3520C	
680-213886-2	T-04F	Dissolved	Water	3520C	
680-213886-3	WEL-01	Total/NA	Water	3520C	
680-213886-4	WEL-01F	Dissolved	Water	3520C	
680-213886-5	OW-10	Total/NA	Water	3520C	
680-213886-6	Field Duplicate 4	Total/NA	Water	3520C	
680-213886-7	OW-10F	Dissolved	Water	3520C	
680-213886-8	Field Duplicate 4F	Dissolved	Water	3520C	
680-213886-9	OWR-15D	Total/NA	Water	3520C	
680-213886-10	OWR-15DF	Dissolved	Water	3520C	
680-213886-12	Equipment Blank	Total/NA	Water	3520C	
MB 680-717264/21-A	Method Blank	Total/NA	Water	3520C	
LCS 680-717264/22-A	Lab Control Sample	Total/NA	Water	3520C	
680-213886-5 MS	OW-10 MS	Total/NA	Water	3520C	
680-213886-5 MSD	OW-10 MSD	Total/NA	Water	3520C	

Analysis Batch: 718000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213886-3	WEL-01	Total/NA	Water	8081B/8082A	717264
680-213886-5	OW-10	Total/NA	Water	8081B/8082A	717264
680-213886-6	Field Duplicate 4	Total/NA	Water	8081B/8082A	717264
680-213886-7	OW-10F	Dissolved	Water	8081B/8082A	717264
680-213886-8	Field Duplicate 4F	Dissolved	Water	8081B/8082A	717264
680-213886-10	OWR-15DF	Dissolved	Water	8081B/8082A	717264
680-213886-12	Equipment Blank	Total/NA	Water	8081B/8082A	717264
MB 680-717264/21-A	Method Blank	Total/NA	Water	8081B/8082A	717264
LCS 680-717264/22-A	Lab Control Sample	Total/NA	Water	8081B/8082A	717264
680-213886-5 MS	OW-10 MS	Total/NA	Water	8081B/8082A	717264
680-213886-5 MSD	OW-10 MSD	Total/NA	Water	8081B/8082A	717264

Analysis Batch: 718008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213886-1	T-04	Total/NA	Water	8081B/8082A	717264
680-213886-1	T-04	Total/NA	Water	8081B/8082A	717264
680-213886-2	T-04F	Dissolved	Water	8081B/8082A	717264
680-213886-4	WEL-01F	Dissolved	Water	8081B/8082A	717264
680-213886-9	OWR-15D	Total/NA	Water	8081B/8082A	717264
680-213886-9	OWR-15D	Total/NA	Water	8081B/8082A	717264

Metals

Prep Batch: 715858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213886-1	T-04	Total Recoverable	Water	3005A	
MB 680-715858/1-A	Method Blank	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 715858 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-715858/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 715873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213886-2	T-04F	Dissolved	Water	3005A	
680-213886-3	WEL-01	Total Recoverable	Water	3005A	
680-213886-4	WEL-01F	Dissolved	Water	3005A	
680-213886-5	OW-10	Total Recoverable	Water	3005A	
680-213886-6	Field Duplicate 4	Total Recoverable	Water	3005A	
680-213886-7	OW-10F	Dissolved	Water	3005A	
680-213886-8	Field Duplicate 4F	Dissolved	Water	3005A	
680-213886-12	Equipment Blank	Total Recoverable	Water	3005A	
MB 680-715873/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-715873/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-213886-5 MS	OW-10 MS	Total Recoverable	Water	3005A	
680-213886-5 MSD	OW-10 MSD	Total Recoverable	Water	3005A	

Analysis Batch: 716429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213886-1	T-04	Total Recoverable	Water	6010C	715858
680-213886-2	T-04F	Dissolved	Water	6010C	715873
680-213886-3	WEL-01	Total Recoverable	Water	6010C	715873
680-213886-4	WEL-01F	Dissolved	Water	6010C	715873
680-213886-5	OW-10	Total Recoverable	Water	6010C	715873
680-213886-6	Field Duplicate 4	Total Recoverable	Water	6010C	715873
680-213886-7	OW-10F	Dissolved	Water	6010C	715873
680-213886-8	Field Duplicate 4F	Dissolved	Water	6010C	715873
680-213886-12	Equipment Blank	Total Recoverable	Water	6010C	715873
MB 680-715858/1-A	Method Blank	Total Recoverable	Water	6010C	715858
MB 680-715873/1-A	Method Blank	Total Recoverable	Water	6010C	715873
LCS 680-715858/2-A	Lab Control Sample	Total Recoverable	Water	6010C	715858
LCS 680-715873/2-A	Lab Control Sample	Total Recoverable	Water	6010C	715873
680-213886-5 MS	OW-10 MS	Total Recoverable	Water	6010C	715873
680-213886-5 MSD	OW-10 MSD	Total Recoverable	Water	6010C	715873

Prep Batch: 716458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213886-5	OW-10	Total/NA	Water	7470A	
680-213886-6	Field Duplicate 4	Total/NA	Water	7470A	
680-213886-7	OW-10F	Dissolved	Water	7470A	
680-213886-8	Field Duplicate 4F	Dissolved	Water	7470A	
680-213886-12	Equipment Blank	Total/NA	Water	7470A	
MB 680-716458/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-716458/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-213886-5 MS	OW-10 MS	Total/NA	Water	7470A	
680-213886-5 MSD	OW-10 MSD	Total/NA	Water	7470A	

Analysis Batch: 716634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213886-5	OW-10	Total/NA	Water	7470A	716458
680-213886-7	OW-10F	Dissolved	Water	7470A	716458

Metals (Continued)

Analysis Batch: 716634 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213886-5 MS	OW-10 MS	Total/NA	Water	7470A	716458
680-213886-5 MSD	OW-10 MSD	Total/NA	Water	7470A	716458

Analysis Batch: 716636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213886-6	Field Duplicate 4	Total/NA	Water	7470A	716458
680-213886-8	Field Duplicate 4F	Dissolved	Water	7470A	716458
680-213886-12	Equipment Blank	Total/NA	Water	7470A	716458
MB 680-716458/1-A	Method Blank	Total/NA	Water	7470A	716458
LCS 680-716458/2-A	Lab Control Sample	Total/NA	Water	7470A	716458

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213886-1

Client Sample ID: T-04

Lab Sample ID: 680-213886-1

Date Collected: 04/10/22 15:26

Matrix: Water

Date Received: 04/12/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1023.8 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			718008	04/27/22 18:15	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3520C			1023.8 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		10			718008	04/27/22 18:31	JCK	TAL SAV
	Instrument ID: CSGK									
Total Recoverable	Prep	3005A			50 mL	50 mL	715858	04/14/22 15:38	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			716429	04/18/22 19:24	BJB	TAL SAV
	Instrument ID: ICPH									

Client Sample ID: T-04F

Lab Sample ID: 680-213886-2

Date Collected: 04/10/22 15:26

Matrix: Water

Date Received: 04/12/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1035.2 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			718008	04/27/22 18:47	JCK	TAL SAV
	Instrument ID: CSGK									
Dissolved	Prep	3005A			50 mL	50 mL	715873	04/14/22 16:21	JE	TAL SAV
Dissolved	Analysis	6010C		1			716429	04/18/22 16:25	BJB	TAL SAV
	Instrument ID: ICPH									

Client Sample ID: WEL-01

Lab Sample ID: 680-213886-3

Date Collected: 04/10/22 15:52

Matrix: Water

Date Received: 04/12/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1021 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			718000	04/27/22 16:48	JCK	TAL SAV
	Instrument ID: CSGAA									
Total Recoverable	Prep	3005A			50 mL	50 mL	715873	04/14/22 16:21	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			716429	04/18/22 16:27	BJB	TAL SAV
	Instrument ID: ICPH									

Client Sample ID: WEL-01F

Lab Sample ID: 680-213886-4

Date Collected: 04/10/22 15:52

Matrix: Water

Date Received: 04/12/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1022.3 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			718008	04/27/22 17:59	JCK	TAL SAV
	Instrument ID: CSGK									
Dissolved	Prep	3005A			50 mL	50 mL	715873	04/14/22 16:21	JE	TAL SAV
Dissolved	Analysis	6010C		1			716429	04/18/22 16:30	BJB	TAL SAV
	Instrument ID: ICPH									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213886-1

Client Sample ID: OW-10

Date Collected: 04/11/22 07:58
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213886-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	717079	04/22/22 20:46	P1C	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3520C			1022.6 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			718000	04/27/22 17:02	JCK	TAL SAV
	Instrument ID: CSGAA									
Total Recoverable	Prep	3005A			50 mL	50 mL	715873	04/14/22 16:21	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			716429	04/18/22 16:10	BJB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	716458	04/19/22 10:38	JKL	TAL SAV
Total/NA	Analysis	7470A		10			716634	04/20/22 08:29	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: Field Duplicate 4

Date Collected: 04/11/22 00:00
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213886-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	717079	04/22/22 14:54	P1C	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3520C			1019 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			718000	04/27/22 17:16	JCK	TAL SAV
	Instrument ID: CSGAA									
Total Recoverable	Prep	3005A			50 mL	50 mL	715873	04/14/22 16:21	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			716429	04/18/22 17:20	BJB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	716458	04/19/22 10:38	JKL	TAL SAV
Total/NA	Analysis	7470A		1			716636	04/19/22 18:25	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: OW-10F

Date Collected: 04/11/22 07:58
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213886-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1029.4 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			718000	04/27/22 17:31	JCK	TAL SAV
	Instrument ID: CSGAA									
Dissolved	Prep	3005A			50 mL	50 mL	715873	04/14/22 16:21	JE	TAL SAV
Dissolved	Analysis	6010C		1			716429	04/18/22 17:23	BJB	TAL SAV
	Instrument ID: ICPH									
Dissolved	Prep	7470A			50 mL	50 mL	716458	04/19/22 10:38	JKL	TAL SAV
Dissolved	Analysis	7470A		10			716634	04/20/22 08:37	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: Field Duplicate 4F

Lab Sample ID: 680-213886-8

Date Collected: 04/11/22 00:00

Matrix: Water

Date Received: 04/12/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1003.8 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			718000	04/27/22 17:45	JCK	TAL SAV
	Instrument ID: CSGAA									
Dissolved	Prep	3005A			50 mL	50 mL	715873	04/14/22 16:21	JE	TAL SAV
Dissolved	Analysis	6010C		1			716429	04/18/22 17:26	BJB	TAL SAV
	Instrument ID: ICPH									
Dissolved	Prep	7470A			50 mL	50 mL	716458	04/19/22 10:38	JKL	TAL SAV
Dissolved	Analysis	7470A		1			716636	04/19/22 18:30	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: OWR-15D

Lab Sample ID: 680-213886-9

Date Collected: 04/11/22 10:55

Matrix: Water

Date Received: 04/12/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1016 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		5			718008	04/27/22 19:19	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3520C			1016 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		10			718008	04/27/22 19:35	JCK	TAL SAV
	Instrument ID: CSGK									

Client Sample ID: OWR-15DF

Lab Sample ID: 680-213886-10

Date Collected: 04/11/22 10:55

Matrix: Water

Date Received: 04/12/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1021.5 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			718000	04/27/22 17:59	JCK	TAL SAV
	Instrument ID: CSGAA									

Client Sample ID: Trip Blank 20220411B

Lab Sample ID: 680-213886-11

Date Collected: 04/11/22 13:50

Matrix: Water

Date Received: 04/12/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	717079	04/22/22 14:10	P1C	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: Equipment Blank

Lab Sample ID: 680-213886-12

Date Collected: 04/11/22 14:00

Matrix: Water

Date Received: 04/12/22 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	717079	04/22/22 15:16	P1C	TAL SAV
	Instrument ID: CMSO2									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213886-1

Client Sample ID: Equipment Blank

Date Collected: 04/11/22 14:00
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213886-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	680			1028.4 mL	1.0 mL	245356	04/17/22 15:00	CPV9	ELLE
Total/NA	Analysis	680		1			245972	04/19/22 16:57	UAD3	ELLE
	Instrument ID: 21949									
Total/NA	Prep	3520C			1045 mL	1 mL	715834	04/14/22 20:00	IR	TAL SAV
Total/NA	Analysis	8270D		1			716544	04/20/22 00:41	DC	TAL SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1044.4 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			718000	04/27/22 18:14	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1051.3 mL	2 mL	572218	04/18/22 21:41	KJZ	TAL DEN
Total/NA	Analysis	8141B		1			572720	04/23/22 00:46	MKW	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	715873	04/14/22 16:21	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			716429	04/18/22 17:28	BJB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	716458	04/19/22 10:38	JKL	TAL SAV
Total/NA	Analysis	7470A		1			716636	04/19/22 18:32	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Job ID: 680-213886-1
Project/Site: Anniston CERCLA April 2022

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-22

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-09-23
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	11-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-22
A2LA	ISO/IEC 17025	0001.01	11-30-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Client: GSI Environmental, Inc
Job ID: 680-213886-1
Project/Site: Anniston CERCLA April 2022

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska	State	PA00009	06-30-22
Alaska (UST)	State	17-027	02-28-23
Arizona	State	AZ0780	03-12-23
Arkansas DEQ	State	88-0660	08-10-22
California	State	2792	02-02-22 *
Colorado	State	PA00009	06-30-22
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-23
Delaware (DW)	State	N/A	01-31-23
Florida	NELAP	E87997	06-30-22
Georgia (DW)	State	C048	01-31-22 *
Hawaii	State	N/A	01-31-23
Illinois	NELAP	200027	01-31-23
Iowa	State	361	03-02-22 *
Kansas	NELAP	E-10151	10-31-22
Kentucky (DW)	State	KY90088	12-31-22
Kentucky (UST)	State	1.01	11-30-22
Kentucky (WW)	State	KY90088	01-01-23
Louisiana	NELAP	02055	06-30-22
Maine	State	2019012	03-12-23
Maryland	State	100	06-30-22
Massachusetts	State	M-PA009	06-30-22
Michigan	State	9930	01-31-23
Minnesota	NELAP	042-999-487	12-31-22
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-23
Montana (UST)	State	<cert No.>	02-01-23
Nebraska	State	NE-OS-32-17	01-31-23
New Hampshire	NELAP	2730	01-10-23
New Jersey	NELAP	PA011	06-30-22
New York	NELAP	10670	04-01-23
North Carolina (DW)	State	42705	07-31-22
North Carolina (WW/SW)	State	521	12-31-22
North Dakota	State	R-205	01-31-23
Oklahoma	NELAP	R-205	08-31-22
Oregon	NELAP	PA200001	09-11-22
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-23
Rhode Island	State	LAO00338	12-30-22
South Carolina	State	89002	01-31-23
Tennessee	State	02838	01-31-23
Texas	NELAP	T104704194-21-40	08-31-22
USDA	US Federal Programs	P330-19-00197	07-03-22
Vermont	State	VT - 36037	10-28-22
Virginia	NELAP	460182	06-14-22
Washington	State	C457	04-12-22 *
West Virginia (DW)	State	9906 C	12-31-22
West Virginia DEP	State	055	05-16-23
Wyoming	State	8TMS-L	01-31-23
Wyoming (UST)	A2LA	1.01	11-30-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston CERCLA April 2022

Job ID: 680-213886-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
680	Polychlorinated Biphenyls by GCMS	EPA	ELLE
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	TAL DEN
6010C	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
680	Polychlorinated Biphenyls by GCMS Preparation for Liquids	EPA	ELLE
7470A	Preparation, Mercury	SW846	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: JA EGK AJV	Lab PM: Weinberg Amy	Carrier Tracking No(s):	COC No: 680-134402-49188 3
Client Contact: Jessica Alanis	Phone: 713-522-6300	E-Mail: amy.weinberg@Eurofinset.com	State of Origin:	Page: Page ~~3 of 4~~ 1 of 2
Company: GSI Environmental Inc	PWSID:	Analysis Requested		Job #: 6128
Address: 2211 Norfolk, Suite 1000	Due Date Requested			Preservation Codes.
City: Houston	TAT Requested (days): standard			A - HCL M - Hexane B - NaOH N None C - Zn Acetate O - AsNaO2 D Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U Acetone J - DI Water V MCAA K - EDTA W - pH 4-5 L - EDA Z other (specify)
State, Zip: TX, 77098-4044	Compliance Project: Δ Yes Δ No			
Phone: 713-522-6300(Tel)	PO #: ~~45008635~~ 49200722			
Email: JAlanis@gsi-net.com	WO #:			Other:
Project Name: Anniston CERCLA April 2022	Project #: 68020284			
	SSOW#:			

680-213886 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A Beryllium, Manganese, Mercury	8260B - Trichloroethene	8081B_8082A - PCB	8081B_8082A - (MOD) Dissolved PCBs Field Filtered	6010C (MOD) Cobalt/Manganese	680 - PCB Homologs	6010C Manganese	8141B - Parathion	8270D - (MOD) 4-NP	6010C (MOD) Manganese- FF Beryllium, Mercury	680 Dissolved PCB Homologs Field Filtered	6010C (MOD) Manganese Field Filtered	8270D SVOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N	D	N	D	N	N	D	N	D	N		
T-04	4/10/22	1524	G	Water					X				X							3	
T-04F	4/10/22	1526	G	Water	X					X								X		3	
WEL-01	4/10/22	1552	G	Water					X				X							3	
WEL-01F	4/10/22	1552	G	Water	X					X								X		3	
OW-10	4/11/22	758	G	Water		X	X	X	X											18	
Field Duplicate 4	4/11/22	—	G	Water			X	X	X											6	
OW-10F	4/11/22	758	G	Water	X					X						X				3	
Field Duplicate 4F	4/11/22	—	G	Water	X					X						X				3	
OWR-15D	4/11/22	1055	G	Water					X											2	
OWR-15DF	4/11/22	1055	G	Water						X										2	
Tripblank 20220411B	4/11/22	1350	—	Water				X												2	

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Level II	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Jessica Alanis	4/11/22 1430	GSI	[illegible]	04/12 10 40	ETS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.
		0.9 / 1.0 2

1-7/0.3 1-2/0.6

Ver: 06/08/2021

3-4/2-8

4/29/2022

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone. 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler	Lab PM: Weinberg Amy	Carrier Tracking No(s)	COC No: 680-134402-49188 4
Client Contact: Jessica Alanis	Phone:	E-Mail: amy weinberg@Eurofinset.com	State of Origin:	Page: ~~Page 4 of 4~~ 2 of 2
Company: GSI Environmental Inc	PWSID:			Job #: 6123
Address: 2211 Norfolk, Suite 1000	Due Date Requested			
City: Houston	TAT Requested (days)			
State, Zip: TX, 77098-4044	Compliance Project: Δ Yes Δ No			
Phone: 713-522-6300(Tel)	PO #: 45008635			
Email: JAlanis@gsi-net.com	WO #:			
Project Name: Anniston CERCLA April 2022	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL	M Hexane
B NaOH	N None
C Zn Acetate	O AsNaO2
D Nitric Acid	P Na2O4S
E - NaHSO4	Q Na2SO3
F - MeOH	R Na2S2O3
G Amchlor	S H2SO4
H Ascorbic Acid	T TSP Dodecahydrate
I Ice	U Acetone
J DI Water	V - MCAA
K - EDTA	W pH 4-5
L - EDA	Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A Beryllium, Manganese, Mercury	8260B Trichloroethene	8081B_8082A PCB	8081B_8082A (MOD) Dissolved PCBs - Field Filtered	6010C (MOD) Cobalt/Manganese	680 PCB Homologs	6010C Manganese	8141B Parathion	8270D (MOD) 4-NP	6010C (MOD) Cobalt/Manganese FF	680 Dissolved PCB Homologs Field Filtered	6010C - (MOD) Manganese - Field Filtered	8270D SVOC	Total Number of containers	Special Instructions/Note
			Preservation Code:				D	A	N	N	D	N	D	N	N	D	N	D	N		
Equipment Blank	4/11/22	1400	G	Water			X	X	X			X		X	X					12	
				Water																	
				Water																	
				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jessica Alanis	4/11/22 1400	GSI		04/12 10.40	
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.
		6.8 10.2

1.7/10.3 1.2/10.6 3.4/12.8

Ver: 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler	Lab PM	Carrier Tracking No(s)	COC No
		Weinberg, Amy		680-690149.1
Client Contact	**Phone**	**E-Mail**	**State of Origin**	**Page**
Shipping/Receiving		amy weinberg@et.eurofinsus.com	Alabama	Page 1 of 1
Company		**Accreditations Required (See note)**		**Job #**
TestAmerica Laboratories, Inc.		State Program - Alabama		680-213886-1
Address	**Due Date Requested:**			
4955 Yarrow Street, ,	4/25/2022			
City	**TAT Requested (days):**			
Arvada				
State, Zip				
CO, 80002				
Phone	**PO #**			
303-736-0100(Tel) 303-431-7171(Fax)				
Email	**WO #**			
Project Name	**Project #**			
Anniston CERCLA April 2022	68020284			
Site	**SSOW#**			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3510C Parathion	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Equipment Blank (680-213886-12)	4/11/22	14:00 Central		Water			X	2	

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	4/13 1000			4/14/22 1135	GAGEN
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks
☒ Yes ☐ No	1577757, 1577756	0.5, 0.1 IR12 CF+0.1

Ver: 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Weinberg, Amy	Carrier Tracking No(s):	COC No: 680-690150.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: amy.weinberg@et.eurofinsus.com	State of Origin: Alabama	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State Program - Alabama		Job #: 680-213886-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 4/25/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Anniston CERCLA April 2022	Project #: 68020284			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	680/680_P_Liquid PCB Homologs	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Equipment Blank (680-213886-12)	4/11/22	14:00 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		4/13 1030				
2	Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
3	Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: 4/14/22 1130	Company: EELET

Custody Seals Intact: Δ Yes Δ No — Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.8

Ver: 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone 912-354-7858 Fax 912-352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Hoffman, Sheila B	Carrier Tracking No(s):	COC No: 680-690150.1
Client Contact: Shipping/Receiving	Phone	E-Mail: Sheila.Hoffman@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State Program - Georgia		Job #: 680-213926-2
Address: 2425 New Holland Pike,	Due Date Requested: 4/25/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Cluster Rule & Misc	Project #: 68000135			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1613B/1613B_P_Sep (MOD) TCDD/TCDF Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Final Effluent-4/12/2022 (680-213926-2)	4/12/22	12:22 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	4/13 1022				
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				4/14/22 1130	ELLET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:
		1.8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-213886-1

Login Number: 213886
List Number: 1
Creator: Padayao, Abigail

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-213886-1

Login Number: 213886
List Number: 3
Creator: Lee, Jerry

List Source: Eurofins Denver
List Creation: 04/14/22 09:10 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-213886-1

Login Number: 213886
List Number: 2
Creator: Metzger, Katherine A

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 04/14/22 08:22 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: RCRA Groundwater Monitoring Project Number: 680-213916-1
Reviewer: Jessica Alanis Validation Date: 15 August 2022

Laboratory: Eurofins TestAmerica Savannah SDG #: 680-213916-1
Analytical Method (type and no.): VOCS (8260B), SVOCS (8270D), PCBs (8081B/8082A), Pesticides (8141B)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: MW-09A, MW-08, OW-22, OW-22F, MW-12A, MW-14, OW-21A, OW-21AF, PURGEWATER, Tripblank20220411A

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?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	Tripblank 202204011A
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☐	☒	☐	Temperature correction for ORP standard value incorrectly calculated. Correct value at 12.89°C is 244 mV but was calculated and calibrated to 265 mV (9% too high) for YSI serial number c2202 (used during purging and sampling of MW-14, OW-21A, and MW-12A) and was calculated and calibrated to 282 (16% too high) for YSI serial number c2207 (used during the purging and sampling of MW-09A, MW-08, and OW-22). Incorrect ORP measurements for these wells are not expected to impact the laboratory analytical data quality; therefore, no results are qualified on this basis. Additionally, for YSI serial number c2202, the calibration form indicates "fail" for DO, ORP, and pH 7, but the instrument was calibrated to the proper 10.62 mg/L, 244 mV, and 7 values, respectively, as indicated by the "calibrate" notes and per personal communication with the field staff member who performed the calibration. Staff member has been instructed to record the instrument response that indicates the instrument has been calibrated to the calibration standard value. Additionally, for turbidity meter serial HI98703 (used during purging and sampling of MW-14, OW-21A, and MW-12A), the calibration form indicates "fail" for the lowest turbidity standard because its numeric deviation (15%) slightly exceeded the calibration limit of 10%. Incorrect turbidity measurements for these wells are not expected to impact the laboratory analytical quality data; therefore, no results are qualified on this basis.
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	

Note Deficiencies: _____

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☐	☒	☐	Chlorobenzene in sample OW-21A was analyzed outside of holding time (15 days after sample collection). As such, this detection is qualified as estimated J.
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☐	☒	☐	As a result of dilution, Parathion, 4-Nitrophenol, and Chlorobenzene in OW-21A did not achieve the appropriate RLs of 1.0, 25, and 1.0 ug/L, respectively. However, all compounds were detected above these limits, so no qualification is made on this basis.
f) Were any sample dilutions noted?	☒	☐	☐	Sample OW-21A underwent dilutions for PCB-1221 and PCB-1248 (DL=5), Sulfotepp and Chlorobenzene (DL= 10), and Parathion and 4-Nitrophenol (DL=50).
g) Were any matrix problems noted?	☐	☒	☐	

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☒	☐	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?				
	☐	☒	☐	
b) Were field dup. precision criteria met (note RPD)?	☐	☐	☒	
c) Were lab duplicates analyzed (note original and duplicate samples)?				Multiple LCSDs
	☒	☐	☐	
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	All RPDs ≤ 8%

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☐	☒	

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☐	☒	☐	DCB Decachlorobiphenyl recovered low (below the lab standard of 14%) for sample OW-22F (11%) and PURGEWATER (12%) for Aroclor analysis by 8081B/8082A but greater than the "expanded lower acceptance limit" (10%) specified in the National Functional Guidelines for Organic Superfund Methods Data Review (NFG, 2020). As such, associated samples are qualified as estimated UJ for non-detects and J for detections.
b) Were surrogate recoveries not calculated due to dilutions?	☒	☐	☐	Note that surrogate recoveries for sample OW-21A under Method 8141B were calculated from diluted samples. As a result, Triphenylphosphate surrogate spike concentrations were reduced to a level where recovery calculations do not provide useful information and recovered low at 0% (below the lab standard of 60% and below the expanded lower acceptance limit of 10% specified in NFG, 2020). Because this recovery could not be calculated due to dilutions, and all other method surrogates were within control limits, no qualification is made on this basis.

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
OW-21A	Chlorobenzene	8.8 ug/L	J	Analyzed outside holding time
OW-22F	PCB-1016	<0.5 ug/L	UJ	Low DCB recovery
OW-22F	PCB-1221	<0.5 ug/L	UJ	Low DCB recovery
OW-22F	PCB-1232	<0.5 ug/L	UJ	Low DCB recovery
OW-22F	PCB-1242	<0.5 ug/L	UJ	Low DCB recovery
OW-22F	PCB-1248	<0.5 ug/L	UJ	Low DCB recovery
OW-22F	PCB-1254	<0.5 ug/L	UJ	Low DCB recovery
OW-22F	PCB-1260	<0.5 ug/L	UJ	Low DCB recovery
OW-22F	PCB-1268	<0.5 ug/L	UJ	Low DCB recovery
PURGEWATER	PCB-1016	<0.5 ug/L	UJ	Low DCB recovery
PURGEWATER	PCB-1221	<0.5 ug/L	UJ	Low DCB recovery
PURGEWATER	PCB-1232	<0.5 ug/L	UJ	Low DCB recovery
PURGEWATER	PCB-1242	<0.5 ug/L	UJ	Low DCB recovery
PURGEWATER	PCB-1248	<0.5 ug/L	UJ	Low DCB recovery
PURGEWATER	PCB-1254	<0.5 ug/L	UJ	Low DCB recovery
PURGEWATER	PCB-1260	<0.5 ug/L	UJ	Low DCB recovery

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

PURGEWATER	PCB-1268	<0.5 ug/L	UJ	Low DCB recovery

Signature: Jessica Adams Date: 15 August 2022

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Amy Weinberg
Project Name: RCRA Groundwater Monitoring Project Number: 680-213916-1
Reviewer: Jessica Alanis Validation Date: 15 August 2022

Laboratory: Eurofins TestAmerica Savannah SDG #: 680-213916-1
Analytical Method (type and no.): Metals (6010C), Mercury (7470A)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: MW-09A, MW-08, OW-22, OW-22F, MW-14, OW-21A, OW-21AF

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?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☐	☒	☐	
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☐	☒	☐	Temperature correction for ORP standard value incorrectly calculated. Correct value at 12.89°C is 244 mV but was calculated and calibrated to 265 mV (9% too high) for YSI serial number c2202 (used during purging and sampling of MW-14 and OW-21A) and was calculated and calibrated to 282 (16% too high) for YSI serial number c2207 (used during the purging and sampling of MW-09A, MW-08, and OW-22). Incorrect ORP measurements for these wells are not expected to impact the laboratory analytical data quality; therefore, no results are qualified on this basis. Additionally, for YSI serial number c2202, the calibration form indicates "fail" for DO, ORP, and pH 7, but the instrument was calibrated to the 10.62 mg/L, 244 mV, and 7 values, respectively, as indicated by the "calibrate" notes and per personal communication with the field staff member who performed the calibration. Staff member has been instructed to record the instrument response that indicates the instrument has been calibrated to the calibration standard value. Additionally, for turbidity meter serial HI98703 (used during purging and sampling of MW-14 and OW-21A), the calibration form indicates "fail" for the lowest turbidity standard because its numeric deviation (15%) slightly exceeded the calibration limit of 10%. Incorrect turbidity measurements for these wells are not expected to impact the laboratory analytical quality data; therefore, no results are qualified on this basis.
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	
Note Deficiencies:				

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☐	☒	☐	
g) Were any matrix problems noted?	☐	☒	☐	

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?				
	☐	☒	☐	
b) Were field dup. precision criteria met (note RPD)?	☐	☐	☒	
c) Were lab duplicates analyzed (note original and duplicate samples)?				
	☐	☒	☐	
d) Were lab dup. precision criteria met (note RPD)?	☐	☐	☒	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☐	☒	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:
No data requires qualification.

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: Jessica Adams

Date: 15 August 2022

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-213916-1
Client Project/Site: Anniston RCRA April 2022

For:
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Attn: Ben Smith

Amy Weinberg

Authorized for release by:
4/29/2022 11:55:10 AM

Amy Weinberg, Project Manager II
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amy.weinberg@et.eurofinsus.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213916-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

GC Semi VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 680-213916-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-213916-1

Comments
No additional comments.

Receipt
The samples were received on 4/12/2022 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.5º C, 0.7º C, 0.7º C, 1.0º C and 3.0º C.

GC/MS VOA
Method 8260B: The following sample was diluted due to the abundance of non-target analytes: OW-21A (680-213916-7). Elevated reporting limits (RLs) are provided.

Method 8260B: Reanalysis of the following sample was performed outside of the analytical holding time due to over dilution : OW-21A (680-213916-7).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: OW-21A (680-213916-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8081B/8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: OW-22F (680-213916-4), (680-213886-A-5-A), (680-213886-A-5-B MS) and (680-213886-A-5-C MSD). These results have been reported and qualified.

Method 8081B/8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: PURGEWATER (680-213916-10). These results have been reported and qualified.

Method 8141B: The following samples in preparation batch 280-571965 and analytical batch 280-572329 was diluted due to the nature of the sample matrix: OW-21A (680-213916-7). Elevated reporting limits (RLs) are provided.

Method 8141B: The following sample required a dilution due to the nature of the sample matrix: OW-21A (680-213916-7). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: The following samples MW-08 (680-213916-2), OW-22 (680-213916-3) and MW-14 (680-213916-6) were cloudy preparation batch 280-571965. Method: 8141B/8141A

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213916-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-213916-1	MW-09A	Water	04/10/22 08:37	04/12/22 10:40
680-213916-2	MW-08	Water	04/10/22 09:46	04/12/22 10:40
680-213916-3	OW-22	Water	04/10/22 13:03	04/12/22 10:40
680-213916-4	OW-22F	Water	04/10/22 11:33	04/12/22 10:40
680-213916-5	MW-12A	Water	04/10/22 08:06	04/12/22 10:40
680-213916-6	MW-14	Water	04/10/22 09:39	04/12/22 10:40
680-213916-7	OW-21A	Water	04/10/22 11:46	04/12/22 10:40
680-213916-8	OW-21AF	Water	04/10/22 11:46	04/12/22 10:40
680-213916-9	Tripblank 20220411A	Water	04/11/22 13:50	04/12/22 10:40
680-213916-10	PURGEWATER	Water	04/11/22 09:52	04/12/22 10:40

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213916-1

Client Sample ID: MW-09A — Lab Sample ID: 680-213916-1

No Detections.

Client Sample ID: MW-08 — Lab Sample ID: 680-213916-2

No Detections.

Client Sample ID: OW-22 — Lab Sample ID: 680-213916-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.84		0.50	0.088	ug/L	1		8081B/8082A	Total/NA

Client Sample ID: OW-22F — Lab Sample ID: 680-213916-4

No Detections.

Client Sample ID: MW-12A — Lab Sample ID: 680-213916-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o,o',o''-Triethylphosphorothioate	21		10	0.96	ug/L	1		8270D	Total/NA

Client Sample ID: MW-14 — Lab Sample ID: 680-213916-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.027		0.010	0.0013	mg/L	1		6010C	Total Recoverable

Client Sample ID: OW-21A — Lab Sample ID: 680-213916-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	8.8	H	1.5	1.5	ug/L	10		8260B	Total/NA
1,2-Dichlorobenzene	15		10	0.53	ug/L	1		8270D	Total/NA
o,o',o''-Triethylphosphorothioate	150		10	0.99	ug/L	1		8270D	Total/NA
4-Nitrophenol - DL	9800		94	94	ug/L	50		8270D	Total/NA
PCB-1221	12		0.50	0.43	ug/L	5		8081B/8082A	Total/NA
PCB-1248	19		0.50	0.43	ug/L	5		8081B/8082A	Total/NA
PCB-1260	0.88		0.50	0.058	ug/L	1		8081B/8082A	Total/NA
Parathion - DL	280		7.0	7.0	ug/L	50		8141B	Total/NA
Cobalt	0.037		0.010	0.0014	mg/L	1		6010C	Total Recoverable
Manganese	0.90		0.010	0.0013	mg/L	1		6010C	Total Recoverable

Client Sample ID: OW-21AF — Lab Sample ID: 680-213916-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt, Dissolved	0.032		0.010	0.0014	mg/L	1		6010C	Dissolved
Manganese, Dissolved	0.80		0.010	0.0013	mg/L	1		6010C	Dissolved

Client Sample ID: Tripblank 20220411A — Lab Sample ID: 680-213916-9

No Detections.

Client Sample ID: PURGEWATER — Lab Sample ID: 680-213916-10

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample ID: MW-09A

Date Collected: 04/10/22 08:37
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/22/22 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/22/22 22:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*04/22/22 22:51*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*04/22/22 22:51*	*1*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*		*04/22/22 22:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.51	ug/L		04/14/22 20:00	04/21/22 02:47	1
1,4-Dichlorobenzene	<10		10	0.52	ug/L		04/14/22 20:00	04/21/22 02:47	1
4-Nitrophenol	<25		25	1.8	ug/L		04/14/22 20:00	04/21/22 02:47	1
o,o',o''-Triethylphosphorothioate	<10		10	0.96	ug/L		04/14/22 20:00	04/21/22 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*32 - 113*	*04/14/22 20:00*	*04/21/22 02:47*	*1*
2-Fluorophenol	*54*		*26 - 109*	*04/14/22 20:00*	*04/21/22 02:47*	*1*
Nitrobenzene-d5	*69*		*32 - 118*	*04/14/22 20:00*	*04/21/22 02:47*	*1*
Phenol-d5	*54*		*27 - 110*	*04/14/22 20:00*	*04/21/22 02:47*	*1*
Terphenyl-d14	*75*		*10 - 126*	*04/14/22 20:00*	*04/21/22 02:47*	*1*
2,4,6-Tribromophenol	*77*		*39 - 124*	*04/14/22 20:00*	*04/21/22 02:47*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.089	ug/L		04/22/22 22:30	04/27/22 18:28	1
PCB-1221	<0.50		0.50	0.089	ug/L		04/22/22 22:30	04/27/22 18:28	1
PCB-1232	<0.50		0.50	0.089	ug/L		04/22/22 22:30	04/27/22 18:28	1
PCB-1242	<0.50		0.50	0.089	ug/L		04/22/22 22:30	04/27/22 18:28	1
PCB-1248	<0.50		0.50	0.089	ug/L		04/22/22 22:30	04/27/22 18:28	1
PCB-1254	<0.50		0.50	0.089	ug/L		04/22/22 22:30	04/27/22 18:28	1
PCB-1260	<0.50		0.50	0.060	ug/L		04/22/22 22:30	04/27/22 18:28	1
PCB-1268	<0.50		0.50	0.089	ug/L		04/22/22 22:30	04/27/22 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*14 - 130*	*04/22/22 22:30*	*04/27/22 18:28*	*1*
Tetrachloro-m-xylene	*56*		*40 - 130*	*04/22/22 22:30*	*04/27/22 18:28*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/15/22 14:13	04/19/22 17:03	1
Sulfotepp	<1.5		1.5	0.17	ug/L		04/15/22 14:13	04/19/22 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*83*		*60 - 154*	*04/15/22 14:13*	*04/19/22 17:03*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/14/22 16:21	04/18/22 16:39	1

Client Sample ID: MW-09A

Date Collected: 04/10/22 08:37
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/14/22 17:08	04/15/22 14:58	1

Client Sample ID: MW-08

Date Collected: 04/10/22 09:46
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/22/22 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*04/22/22 23:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*04/22/22 23:15*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*04/22/22 23:15*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*04/22/22 23:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.51	ug/L		04/14/22 20:00	04/21/22 03:12	1
1,4-Dichlorobenzene	<10		10	0.52	ug/L		04/14/22 20:00	04/21/22 03:12	1
4-Nitrophenol	<25		25	1.8	ug/L		04/14/22 20:00	04/21/22 03:12	1
o,o',o''-Triethylphosphorothioate	<10		10	0.97	ug/L		04/14/22 20:00	04/21/22 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*32 - 113*	*04/14/22 20:00*	*04/21/22 03:12*	*1*
2-Fluorophenol	*59*		*26 - 109*	*04/14/22 20:00*	*04/21/22 03:12*	*1*
Nitrobenzene-d5	*78*		*32 - 118*	*04/14/22 20:00*	*04/21/22 03:12*	*1*
Phenol-d5	*57*		*27 - 110*	*04/14/22 20:00*	*04/21/22 03:12*	*1*
Terphenyl-d14	*58*		*10 - 126*	*04/14/22 20:00*	*04/21/22 03:12*	*1*
2,4,6-Tribromophenol	*78*		*39 - 124*	*04/14/22 20:00*	*04/21/22 03:12*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:42	1
PCB-1221	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:42	1
PCB-1232	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:42	1
PCB-1242	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:42	1
PCB-1248	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:42	1
PCB-1254	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:42	1
PCB-1260	<0.50		0.50	0.059	ug/L		04/22/22 22:30	04/27/22 18:42	1
PCB-1268	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*		*14 - 130*	*04/22/22 22:30*	*04/27/22 18:42*	*1*
Tetrachloro-m-xylene	*72*		*40 - 130*	*04/22/22 22:30*	*04/27/22 18:42*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/15/22 14:13	04/19/22 17:43	1
Sulfotepp	<1.5		1.5	0.16	ug/L		04/15/22 14:13	04/19/22 17:43	1

Client Sample ID: MW-08

Date Collected: 04/10/22 09:46
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*77*		*60 - 154*	*04/15/22 14:13*	*04/19/22 17:43*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/14/22 16:21	04/18/22 16:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/14/22 17:34	04/15/22 15:16	1

Client Sample ID: OW-22

Date Collected: 04/10/22 13:03
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/22/22 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*101*		*70 - 130*		*04/22/22 20:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*04/22/22 20:49*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*04/22/22 20:49*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*04/22/22 20:49*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.51	ug/L		04/14/22 20:00	04/21/22 18:43	1
1,4-Dichlorobenzene	<10		10	0.52	ug/L		04/14/22 20:00	04/21/22 18:43	1
4-Nitrophenol	<25		25	1.8	ug/L		04/14/22 20:00	04/21/22 18:43	1
o,o',o''-Triethylphosphorothioate	<10		10	0.96	ug/L		04/14/22 20:00	04/21/22 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*70*		*32 - 113*	*04/14/22 20:00*	*04/21/22 18:43*	*1*
2-Fluorophenol	*55*		*26 - 109*	*04/14/22 20:00*	*04/21/22 18:43*	*1*
Nitrobenzene-d5	*71*		*32 - 118*	*04/14/22 20:00*	*04/21/22 18:43*	*1*
Phenol-d5	*55*		*27 - 110*	*04/14/22 20:00*	*04/21/22 18:43*	*1*
Terphenyl-d14	*65*		*10 - 126*	*04/14/22 20:00*	*04/21/22 18:43*	*1*
2,4,6-Tribromophenol	*83*		*39 - 124*	*04/14/22 20:00*	*04/21/22 18:43*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:57	1
PCB-1221	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:57	1
PCB-1232	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:57	1
PCB-1242	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:57	1
PCB-1248	**0.84**		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:57	1
PCB-1254	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:57	1
PCB-1260	<0.50		0.50	0.059	ug/L		04/22/22 22:30	04/27/22 18:57	1
PCB-1268	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*49*		*14 - 130*	*04/22/22 22:30*	*04/27/22 18:57*	*1*

Client Sample ID: OW-22

Date Collected: 04/10/22 13:03
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-3

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*40 - 130*	*04/22/22 22:30*	*04/27/22 18:57*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/15/22 14:13	04/19/22 18:22	1
Sulfotepp	<1.5		1.5	0.16	ug/L		04/15/22 14:13	04/19/22 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*83*		*60 - 154*	*04/15/22 14:13*	*04/19/22 18:22*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/14/22 16:21	04/18/22 16:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/14/22 17:34	04/15/22 15:19	1

Client Sample ID: OW-22F

Date Collected: 04/10/22 11:33
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-4

Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.086	ug/L		04/22/22 22:30	04/27/22 19:11	1
PCB-1221, Dissolved	<0.50		0.50	0.086	ug/L		04/22/22 22:30	04/27/22 19:11	1
PCB-1232, Dissolved	<0.50		0.50	0.086	ug/L		04/22/22 22:30	04/27/22 19:11	1
PCB-1242, Dissolved	<0.50		0.50	0.086	ug/L		04/22/22 22:30	04/27/22 19:11	1
PCB-1248, Dissolved	<0.50		0.50	0.086	ug/L		04/22/22 22:30	04/27/22 19:11	1
PCB-1254, Dissolved	<0.50		0.50	0.086	ug/L		04/22/22 22:30	04/27/22 19:11	1
PCB-1260, Dissolved	<0.50		0.50	0.057	ug/L		04/22/22 22:30	04/27/22 19:11	1
PCB-1268, Dissolved	<0.50		0.50	0.086	ug/L		04/22/22 22:30	04/27/22 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*11*	*S1-*	*14 - 130*	*04/22/22 22:30*	*04/27/22 19:11*	*1*
Tetrachloro-m-xylene	*64*		*40 - 130*	*04/22/22 22:30*	*04/27/22 19:11*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/14/22 16:21	04/18/22 16:48	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/14/22 17:34	04/15/22 15:21	1

Client Sample ID: MW-12A

Date Collected: 04/10/22 08:06
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-5

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		04/14/22 20:00	04/21/22 19:07	1
o,o',o''-Triethylphosphorothioate	21		10	0.96	ug/L		04/14/22 20:00	04/21/22 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*32 - 113*	*04/14/22 20:00*	*04/21/22 19:07*	*1*
2-Fluorophenol	*56*		*26 - 109*	*04/14/22 20:00*	*04/21/22 19:07*	*1*
Nitrobenzene-d5	*72*		*32 - 118*	*04/14/22 20:00*	*04/21/22 19:07*	*1*
Phenol-d5	*53*		*27 - 110*	*04/14/22 20:00*	*04/21/22 19:07*	*1*
Terphenyl-d14	*76*		*10 - 126*	*04/14/22 20:00*	*04/21/22 19:07*	*1*
2,4,6-Tribromophenol	*83*		*39 - 124*	*04/14/22 20:00*	*04/21/22 19:07*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 19:25	1
PCB-1221	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 19:25	1
PCB-1232	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 19:25	1
PCB-1242	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 19:25	1
PCB-1248	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 19:25	1
PCB-1254	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 19:25	1
PCB-1260	<0.50		0.50	0.058	ug/L		04/22/22 22:30	04/27/22 19:25	1
PCB-1268	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*14 - 130*	*04/22/22 22:30*	*04/27/22 19:25*	*1*
Tetrachloro-m-xylene	*62*		*40 - 130*	*04/22/22 22:30*	*04/27/22 19:25*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/15/22 14:13	04/19/22 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*87*		*60 - 154*	*04/15/22 14:13*	*04/19/22 19:01*	*1*

Client Sample ID: MW-14

Date Collected: 04/10/22 09:39
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/22/22 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*04/22/22 21:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*04/22/22 21:13*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*04/22/22 21:13*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*04/22/22 21:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.51	ug/L		04/14/22 20:00	04/21/22 19:31	1
1,4-Dichlorobenzene	<10		10	0.52	ug/L		04/14/22 20:00	04/21/22 19:31	1
4-Nitrophenol	<25		25	1.8	ug/L		04/14/22 20:00	04/21/22 19:31	1

Client Sample ID: MW-14

Date Collected: 04/10/22 09:39
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-6

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o,o',o''-Triethylphosphorothioate	<10		10	0.96	ug/L		04/14/22 20:00	04/21/22 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*32 - 113*	*04/14/22 20:00*	*04/21/22 19:31*	*1*
2-Fluorophenol	*52*		*26 - 109*	*04/14/22 20:00*	*04/21/22 19:31*	*1*
Nitrobenzene-d5	*70*		*32 - 118*	*04/14/22 20:00*	*04/21/22 19:31*	*1*
Phenol-d5	*51*		*27 - 110*	*04/14/22 20:00*	*04/21/22 19:31*	*1*
Terphenyl-d14	*48*		*10 - 126*	*04/14/22 20:00*	*04/21/22 19:31*	*1*
2,4,6-Tribromophenol	*79*		*39 - 124*	*04/14/22 20:00*	*04/21/22 19:31*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 19:39	1
PCB-1221	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 19:39	1
PCB-1232	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 19:39	1
PCB-1242	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 19:39	1
PCB-1248	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 19:39	1
PCB-1254	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 19:39	1
PCB-1260	<0.50		0.50	0.059	ug/L		04/22/22 22:30	04/27/22 19:39	1
PCB-1268	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*		*14 - 130*	*04/22/22 22:30*	*04/27/22 19:39*	*1*
Tetrachloro-m-xylene	*72*		*40 - 130*	*04/22/22 22:30*	*04/27/22 19:39*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/15/22 14:13	04/19/22 19:40	1
Sulfotepp	<1.5		1.5	0.16	ug/L		04/15/22 14:13	04/19/22 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*79*		*60 - 154*	*04/15/22 14:13*	*04/19/22 19:40*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/14/22 16:21	04/18/22 16:51	1
Manganese	**0.027**		0.010	0.0013	mg/L		04/14/22 16:21	04/18/22 16:51	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/14/22 17:34	04/15/22 15:36	1

Client Sample ID: OW-21A

Date Collected: 04/10/22 11:46
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**8.8**	**H**	1.5	1.5	ug/L			04/25/22 18:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*04/25/22 18:41*	*10*

Client Sample ID: OW-21A

Date Collected: 04/10/22 11:46
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*04/25/22 18:41*	*10*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*04/25/22 18:41*	*10*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*04/25/22 18:41*	*10*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	**15**		10	0.53	ug/L		04/14/22 20:00	04/21/22 19:56	1
1,4-Dichlorobenzene	<10		10	0.54	ug/L		04/14/22 20:00	04/21/22 19:56	1
o,o',o''-Triethylphosphorothioate	**150**		10	0.99	ug/L		04/14/22 20:00	04/21/22 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*58*		*32 - 113*	*04/14/22 20:00*	*04/21/22 19:56*	*1*
2-Fluorophenol	*36*		*26 - 109*	*04/14/22 20:00*	*04/21/22 19:56*	*1*
Nitrobenzene-d5	*61*		*32 - 118*	*04/14/22 20:00*	*04/21/22 19:56*	*1*
Phenol-d5	*42*		*27 - 110*	*04/14/22 20:00*	*04/21/22 19:56*	*1*
Terphenyl-d14	*40*		*10 - 126*	*04/14/22 20:00*	*04/21/22 19:56*	*1*
2,4,6-Tribromophenol	*80*		*39 - 124*	*04/14/22 20:00*	*04/21/22 19:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	**9800**		94	94	ug/L		04/14/22 20:00	04/21/22 20:20	50

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 19:54	1
PCB-1221	**12**		0.50	0.43	ug/L		04/22/22 22:30	04/28/22 18:25	5
PCB-1232	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 19:54	1
PCB-1242	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 19:54	1
PCB-1248	**19**		0.50	0.43	ug/L		04/22/22 22:30	04/28/22 18:25	5
PCB-1254	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 19:54	1
PCB-1260	**0.88**		0.50	0.058	ug/L		04/22/22 22:30	04/27/22 19:54	1
PCB-1268	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/27/22 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*52*		*14 - 130*	*04/22/22 22:30*	*04/27/22 19:54*	*1*
Tetrachloro-m-xylene	*56*		*40 - 130*	*04/22/22 22:30*	*04/27/22 19:54*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfotepp	<1.6		1.6	1.6	ug/L		04/15/22 14:13	04/19/22 20:19	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*79*	*D*	*60 - 154*	*04/15/22 14:13*	*04/19/22 20:19*	*10*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	**280**		7.0	7.0	ug/L		04/15/22 14:13	04/20/22 16:58	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*0*	*S1- D*	*60 - 154*	*04/15/22 14:13*	*04/20/22 16:58*	*50*

Client Sample ID: OW-21A

Lab Sample ID: 680-213916-7

Date Collected: 04/10/22 11:46
Matrix: Water
Date Received: 04/12/22 10:40

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	**0.037**		0.010	0.0014	mg/L		04/14/22 16:21	04/18/22 16:54	1
Manganese	**0.90**		0.010	0.0013	mg/L		04/14/22 16:21	04/18/22 16:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/14/22 17:34	04/15/22 15:44	1

Client Sample ID: OW-21AF

Lab Sample ID: 680-213916-8

Date Collected: 04/10/22 11:46
Matrix: Water
Date Received: 04/12/22 10:40

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolve

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 20:08	1
PCB-1221, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 20:08	1
PCB-1232, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 20:08	1
PCB-1242, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 20:08	1
PCB-1248, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 20:08	1
PCB-1254, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 20:08	1
PCB-1260, Dissolved	<0.50		0.50	0.059	ug/L		04/22/22 22:30	04/27/22 20:08	1
PCB-1268, Dissolved	<0.50		0.50	0.088	ug/L		04/22/22 22:30	04/27/22 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*18*		*14 - 130*	*04/22/22 22:30*	*04/27/22 20:08*	*1*
Tetrachloro-m-xylene	*65*		*40 - 130*	*04/22/22 22:30*	*04/27/22 20:08*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt, Dissolved	**0.032**		0.010	0.0014	mg/L		04/14/22 16:21	04/18/22 16:56	1
Manganese, Dissolved	**0.80**		0.010	0.0013	mg/L		04/14/22 16:21	04/18/22 16:56	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/14/22 17:34	04/15/22 15:06	1

Client Sample ID: Tripblank 20220411A

Lab Sample ID: 680-213916-9

Date Collected: 04/11/22 13:50
Matrix: Water
Date Received: 04/12/22 10:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/23/22 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*04/23/22 18:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*04/23/22 18:14*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/23/22 18:14*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*04/23/22 18:14*	*1*

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213916-1

Client Sample ID: PURGEWATER
Date Collected: 04/11/22 09:52
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-10
Matrix: Water

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/28/22 18:43	1
PCB-1221	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/28/22 18:43	1
PCB-1232	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/28/22 18:43	1
PCB-1242	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/28/22 18:43	1
PCB-1248	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/28/22 18:43	1
PCB-1254	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/28/22 18:43	1
PCB-1260	<0.50		0.50	0.058	ug/L		04/22/22 22:30	04/28/22 18:43	1
PCB-1268	<0.50		0.50	0.087	ug/L		04/22/22 22:30	04/28/22 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*12*	*S1-*	*14 - 130*	*04/22/22 22:30*	*04/28/22 18:43*	*1*
Tetrachloro-m-xylene	*60*		*40 - 130*	*04/22/22 22:30*	*04/28/22 18:43*	*1*

Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213916-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	DBFM	BFB
Lab Sample ID	Client Sample ID	(70-130)	(60-124)	(70-130)	(70-130)
680-213916-1	MW-09A	100	103	104	114
680-213916-2	MW-08	102	103	105	109
680-213916-3	OW-22	101	106	104	109
680-213916-6	MW-14	101	103	106	108
680-213916-7	OW-21A	104	84	102	89
680-213916-9	Tripblank 20220411A	99	103	98	109
LCS 680-717147/5	Lab Control Sample	101	103	106	104
LCS 680-717329/5	Lab Control Sample	97	113	99	99
LCS 680-717445/4	Lab Control Sample	101	86	100	89
LCSD 680-717147/6	Lab Control Sample Dup	104	103	105	103
LCSD 680-717329/6	Lab Control Sample Dup	97	115	102	101
LCSD 680-717445/5	Lab Control Sample Dup	101	86	98	91
MB 680-717147/10	Method Blank	102	103	104	110
MB 680-717329/9	Method Blank	100	102	97	109
MB 680-717445/9	Method Blank	103	83	101	90

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(32-113)	(26-109)	(32-118)	(27-110)	(10-126)	(39-124)
680-213916-1	MW-09A	70	54	69	54	75	77
680-213916-2	MW-08	73	59	78	57	58	78
680-213916-3	OW-22	70	55	71	55	65	83
680-213916-5	MW-12A	70	56	72	53	76	83
680-213916-6	MW-14	71	52	70	51	48	79
680-213916-7	OW-21A	58	36	61	42	40	80
LCS 680-715834/16-A	Lab Control Sample	71	61	72	64	85	86
LCS 680-715834/18-A	Lab Control Sample	72	62	79	63	85	86
LCSD 680-715834/17-A	Lab Control Sample Dup	71	55	72	59	88	91
LCSD 680-715834/19-A	Lab Control Sample Dup	72	59	79	59	85	87
MB 680-715834/15-A	Method Blank	67	54	71	49	80	84

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Surrogate Summary

Client: GSI Environmental, Inc
Job ID: 680-213916-1
Project/Site: Anniston RCRA April 2022

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-213886-A-5-B MS	Matrix Spike	16	32 S1-
680-213886-A-5-C MSD	Matrix Spike Duplicate	15	32 S1-
680-213916-1	MW-09A	77	56
680-213916-2	MW-08	52	72
680-213916-5	MW-12A	65	62
680-213916-6	MW-14	52	72
680-213916-7	OW-21A	52	56
LCS 680-717264/22-A	Lab Control Sample	70	69
MB 680-717264/21-A	Method Blank	67	68

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-213916-10	PURGEWATER	12 S1-	60

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-213916-3	OW-22	49	58

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-213916-4	OW-22F	11 S1-	64
680-213916-8	OW-21AF	18	65

Surrogate Legend

Surrogate Summary

Client: GSI Environmental, Inc
Job ID: 680-213916-1
Project/Site: Anniston RCRA April 2022

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPP1
Lab Sample ID	Client Sample ID	(60-154)
410-79574-D-14-A MSD	Matrix Spike Duplicate	93
410-79574-F-14-B MS	Matrix Spike	93
680-213916-1	MW-09A	83
680-213916-2	MW-08	77
680-213916-3	OW-22	83
680-213916-5	MW-12A	87
680-213916-6	MW-14	79
680-213916-7	OW-21A	79 D
LCS 280-571965/2-A	Lab Control Sample	98
MB 280-571965/1-A	Method Blank	95

Surrogate Legend
TPP = Triphenylphosphate

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPP2
Lab Sample ID	Client Sample ID	(60-154)
680-213916-7 - DL	OW-21A	0 S1- D

Surrogate Legend
TPP = Triphenylphosphate

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-717147/10
Matrix: Water
Analysis Batch: 717147

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/22/22 17:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*04/22/22 17:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*04/22/22 17:10*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*04/22/22 17:10*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*04/22/22 17:10*	*1*

Lab Sample ID: LCS 680-717147/5
Matrix: Water
Analysis Batch: 717147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorobenzene			50.0	51.5		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 680-717147/6
Matrix: Water
Analysis Batch: 717147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene			50.0	52.2		ug/L		104	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 680-717329/9
Matrix: Water
Analysis Batch: 717329

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/23/22 17:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/23/22 17:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*04/23/22 17:36*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*04/23/22 17:36*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*04/23/22 17:36*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-717329/5
Matrix: Water
Analysis Batch: 717329

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorobenzene			50.0	45.0		ug/L		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 124*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 680-717329/6
Matrix: Water
Analysis Batch: 717329

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene			50.0	45.3		ug/L		91	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 124*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 680-717445/9
Matrix: Water
Analysis Batch: 717445

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			04/25/22 13:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*04/25/22 13:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*04/25/22 13:04*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*04/25/22 13:04*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/25/22 13:04*	*1*

Lab Sample ID: LCS 680-717445/4
Matrix: Water
Analysis Batch: 717445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorobenzene			50.0	48.1		ug/L		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-717445/5
Matrix: Water
Analysis Batch: 717445

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene			50.0	47.8		ug/L		96	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-715834/15-A
Matrix: Water
Analysis Batch: 716752

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715834

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10	0.53	ug/L		04/14/22 20:00	04/20/22 19:07	1
1,4-Dichlorobenzene	<10		10	0.54	ug/L		04/14/22 20:00	04/20/22 19:07	1
4-Nitrophenol	<25		25	1.9	ug/L		04/14/22 20:00	04/20/22 19:07	1
o,o',o''-Triethylphosphorothioate	<10		10	1.0	ug/L		04/14/22 20:00	04/20/22 19:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*32 - 113*	*04/14/22 20:00*	*04/20/22 19:07*	*1*
2-Fluorophenol	*54*		*26 - 109*	*04/14/22 20:00*	*04/20/22 19:07*	*1*
Nitrobenzene-d5	*71*		*32 - 118*	*04/14/22 20:00*	*04/20/22 19:07*	*1*
Phenol-d5	*49*		*27 - 110*	*04/14/22 20:00*	*04/20/22 19:07*	*1*
Terphenyl-d14	*80*		*10 - 126*	*04/14/22 20:00*	*04/20/22 19:07*	*1*
2,4,6-Tribromophenol	*84*		*39 - 124*	*04/14/22 20:00*	*04/20/22 19:07*	*1*

Lab Sample ID: LCS 680-715834/16-A
Matrix: Water
Analysis Batch: 716752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715834

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene			100	48.2		ug/L		48	31 - 130
1,4-Dichlorobenzene			100	48.3		ug/L		48	31 - 130
4-Nitrophenol			200	163		ug/L		81	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*32 - 113*
2-Fluorophenol	*61*		*26 - 109*
Nitrobenzene-d5	*72*		*32 - 118*
Phenol-d5	*64*		*27 - 110*
Terphenyl-d14	*85*		*10 - 126*
2,4,6-Tribromophenol	*86*		*39 - 124*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-715834/18-A
Matrix: Water
Analysis Batch: 716752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715834

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o,o',o''-Triethylphosphorothioate			100	71.2		ug/L		71	23 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*72*		*32 - 113*
2-Fluorophenol	*62*		*26 - 109*
Nitrobenzene-d5	*79*		*32 - 118*
Phenol-d5	*63*		*27 - 110*
Terphenyl-d14	*85*		*10 - 126*
2,4,6-Tribromophenol	*86*		*39 - 124*

Lab Sample ID: LCSD 680-715834/17-A
Matrix: Water
Analysis Batch: 716752

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 715834

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene			100	45.9		ug/L		46	31 - 130	5	50
1,4-Dichlorobenzene			100	44.7		ug/L		45	31 - 130	8	50
4-Nitrophenol			200	168		ug/L		84	44 - 130	3	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*32 - 113*
2-Fluorophenol	*55*		*26 - 109*
Nitrobenzene-d5	*72*		*32 - 118*
Phenol-d5	*59*		*27 - 110*
Terphenyl-d14	*88*		*10 - 126*
2,4,6-Tribromophenol	*91*		*39 - 124*

Lab Sample ID: LCSD 680-715834/19-A
Matrix: Water
Analysis Batch: 716752

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 715834

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o,o',o''-Triethylphosphorothioate			100	76.7		ug/L		77	23 - 130	7	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*72*		*32 - 113*
2-Fluorophenol	*59*		*26 - 109*
Nitrobenzene-d5	*79*		*32 - 118*
Phenol-d5	*59*		*27 - 110*
Terphenyl-d14	*85*		*10 - 126*
2,4,6-Tribromophenol	*87*		*39 - 124*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-717264/21-A
Matrix: Water
Analysis Batch: 718000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 717264

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1221	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1232	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1242	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1248	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1254	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1260	<0.50		0.50	0.060	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1268	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		04/22/22 22:30	04/27/22 16:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*14 - 130*	*04/22/22 22:30*	*04/27/22 16:19*	*1*
Tetrachloro-m-xylene	*68*		*40 - 130*	*04/22/22 22:30*	*04/27/22 16:19*	*1*

Lab Sample ID: LCS 680-717264/22-A
Matrix: Water
Analysis Batch: 718000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 717264

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	3.00	2.06		ug/L		69	44 - 130
PCB-1016, Dissolved	3.00	2.06		ug/L		69	44 - 130
PCB-1260	3.00	2.30		ug/L		77	35 - 130
PCB-1260, Dissolved	3.00	2.30		ug/L		77	35 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*70*		*14 - 130*
Tetrachloro-m-xylene	*69*		*40 - 130*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-571965/1-A
Matrix: Water
Analysis Batch: 572157

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571965

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		04/15/22 14:13	04/19/22 01:24	1
Sulfotepp	<1.5		1.5	0.17	ug/L		04/15/22 14:13	04/19/22 01:24	1

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: MB 280-571965/1-A
Matrix: Water
Analysis Batch: 572157

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571965

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	95		60 - 154	04/15/22 14:13	04/19/22 01:24	1

Lab Sample ID: LCS 280-571965/2-A
Matrix: Water
Analysis Batch: 572157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	4.00	3.43		ug/L		86	55 - 107
Sulfotepp	4.00	3.31		ug/L		83	53 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Triphenylphosphate	98		60 - 154

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-715873/1-A
Matrix: Water
Analysis Batch: 716429

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 715873

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		04/14/22 16:21	04/18/22 16:04	1
Cobalt, Dissolved	<0.010		0.010	0.0014	mg/L		04/14/22 16:21	04/18/22 16:04	1
Manganese	<0.010		0.010	0.0013	mg/L		04/14/22 16:21	04/18/22 16:04	1
Manganese, Dissolved	<0.010		0.010	0.0013	mg/L		04/14/22 16:21	04/18/22 16:04	1

Lab Sample ID: LCS 680-715873/2-A
Matrix: Water
Analysis Batch: 716429

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 715873

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.0500	0.0521		mg/L		104	80 - 120
Cobalt, Dissolved	0.0500	0.0521		mg/L		104	80 - 120
Manganese	0.400	0.412		mg/L		103	80 - 120
Manganese, Dissolved	0.400	0.412		mg/L		103	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-715883/1-A
Matrix: Water
Analysis Batch: 716326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715883

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/14/22 17:08	04/15/22 13:45	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 680-715883/2-A
Matrix: Water
Analysis Batch: 716326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715883

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00250	0.00236		mg/L		94	80 - 120		

Lab Sample ID: MB 680-715888/1-A
Matrix: Water
Analysis Batch: 716326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000080	mg/L		04/14/22 17:34	04/15/22 15:01	1
Mercury, Dissolved	<0.00020		0.00020	0.000080	mg/L		04/14/22 17:34	04/15/22 15:01	1

Lab Sample ID: LCS 680-715888/2-A
Matrix: Water
Analysis Batch: 716326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715888

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00250	0.00256		mg/L		102	80 - 120		
Mercury, Dissolved			0.00250	0.00256		mg/L		102	80 - 120		

Lab Sample ID: 680-213916-8 MS
Matrix: Water
Analysis Batch: 716326

Client Sample ID: OW-21AF
Prep Type: Dissolved
Prep Batch: 715888

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	<0.00020		0.00100	0.000922		mg/L		92	80 - 120		
Mercury, Dissolved	<0.00020		0.00100	0.000922		mg/L		92	80 - 120		

Lab Sample ID: 680-213916-8 MSD
Matrix: Water
Analysis Batch: 716326

Client Sample ID: OW-21AF
Prep Type: Dissolved
Prep Batch: 715888

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000930		mg/L		93	80 - 120	1	20
Mercury, Dissolved	<0.00020		0.00100	0.000930		mg/L		93	80 - 120	1	20

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Analysis Batch: 717147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213916-1	MW-09A	Total/NA	Water	8260B	
680-213916-2	MW-08	Total/NA	Water	8260B	
680-213916-3	OW-22	Total/NA	Water	8260B	
680-213916-6	MW-14	Total/NA	Water	8260B	
MB 680-717147/10	Method Blank	Total/NA	Water	8260B	
LCS 680-717147/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-717147/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 717329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213916-9	Tripblank 20220411A	Total/NA	Water	8260B	
MB 680-717329/9	Method Blank	Total/NA	Water	8260B	
LCS 680-717329/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-717329/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 717445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213916-7	OW-21A	Total/NA	Water	8260B	
MB 680-717445/9	Method Blank	Total/NA	Water	8260B	
LCS 680-717445/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-717445/5	Lab Control Sample Dup	Total/NA	Water	8260B	

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Prep Batch: 715834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213916-1	MW-09A	Total/NA	Water	3520C	
680-213916-2	MW-08	Total/NA	Water	3520C	
680-213916-3	OW-22	Total/NA	Water	3520C	
680-213916-5	MW-12A	Total/NA	Water	3520C	
680-213916-6	MW-14	Total/NA	Water	3520C	
680-213916-7	OW-21A	Total/NA	Water	3520C	
680-213916-7 - DL	OW-21A	Total/NA	Water	3520C	
MB 680-715834/15-A	Method Blank	Total/NA	Water	3520C	
LCS 680-715834/16-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-715834/18-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-715834/17-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 680-715834/19-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 716752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213916-1	MW-09A	Total/NA	Water	8270D	715834
680-213916-2	MW-08	Total/NA	Water	8270D	715834
MB 680-715834/15-A	Method Blank	Total/NA	Water	8270D	715834
LCS 680-715834/16-A	Lab Control Sample	Total/NA	Water	8270D	715834
LCS 680-715834/18-A	Lab Control Sample	Total/NA	Water	8270D	715834
LCSD 680-715834/17-A	Lab Control Sample Dup	Total/NA	Water	8270D	715834
LCSD 680-715834/19-A	Lab Control Sample Dup	Total/NA	Water	8270D	715834

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Analysis Batch: 716958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213916-3	OW-22	Total/NA	Water	8270D	715834
680-213916-5	MW-12A	Total/NA	Water	8270D	715834
680-213916-6	MW-14	Total/NA	Water	8270D	715834
680-213916-7	OW-21A	Total/NA	Water	8270D	715834
680-213916-7 - DL	OW-21A	Total/NA	Water	8270D	715834

GC Semi VOA

Prep Batch: 571965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213916-1	MW-09A	Total/NA	Water	3510C	
680-213916-2	MW-08	Total/NA	Water	3510C	
680-213916-3	OW-22	Total/NA	Water	3510C	
680-213916-5	MW-12A	Total/NA	Water	3510C	
680-213916-6	MW-14	Total/NA	Water	3510C	
680-213916-7 - DL	OW-21A	Total/NA	Water	3510C	
680-213916-7	OW-21A	Total/NA	Water	3510C	
MB 280-571965/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-571965/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 572157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-571965/1-A	Method Blank	Total/NA	Water	8141B	571965
LCS 280-571965/2-A	Lab Control Sample	Total/NA	Water	8141B	571965

Analysis Batch: 572329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213916-1	MW-09A	Total/NA	Water	8141B	571965
680-213916-2	MW-08	Total/NA	Water	8141B	571965
680-213916-3	OW-22	Total/NA	Water	8141B	571965
680-213916-5	MW-12A	Total/NA	Water	8141B	571965
680-213916-6	MW-14	Total/NA	Water	8141B	571965
680-213916-7	OW-21A	Total/NA	Water	8141B	571965

Analysis Batch: 572415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213916-7 - DL	OW-21A	Total/NA	Water	8141B	571965

Prep Batch: 717264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213916-1	MW-09A	Total/NA	Water	3520C	
680-213916-2	MW-08	Total/NA	Water	3520C	
680-213916-3	OW-22	Total/NA	Water	3520C	
680-213916-4	OW-22F	Dissolved	Water	3520C	
680-213916-5	MW-12A	Total/NA	Water	3520C	
680-213916-6	MW-14	Total/NA	Water	3520C	
680-213916-7	OW-21A	Total/NA	Water	3520C	
680-213916-8	OW-21AF	Dissolved	Water	3520C	
680-213916-10	PURGEWATER	Total/NA	Water	3520C	
MB 680-717264/21-A	Method Blank	Total/NA	Water	3520C	
LCS 680-717264/22-A	Lab Control Sample	Total/NA	Water	3520C	

GC Semi VOA

Analysis Batch: 718000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213916-1	MW-09A	Total/NA	Water	8081B/8082A	717264
680-213916-2	MW-08	Total/NA	Water	8081B/8082A	717264
680-213916-3	OW-22	Total/NA	Water	8081B/8082A	717264
680-213916-4	OW-22F	Dissolved	Water	8081B/8082A	717264
680-213916-5	MW-12A	Total/NA	Water	8081B/8082A	717264
680-213916-6	MW-14	Total/NA	Water	8081B/8082A	717264
680-213916-7	OW-21A	Total/NA	Water	8081B/8082A	717264
680-213916-8	OW-21AF	Dissolved	Water	8081B/8082A	717264
MB 680-717264/21-A	Method Blank	Total/NA	Water	8081B/8082A	717264
LCS 680-717264/22-A	Lab Control Sample	Total/NA	Water	8081B/8082A	717264

Analysis Batch: 718199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213916-7	OW-21A	Total/NA	Water	8081B/8082A	717264
680-213916-10	PURGEWATER	Total/NA	Water	8081B/8082A	717264

Metals

Prep Batch: 715873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213916-1	MW-09A	Total Recoverable	Water	3005A	
680-213916-2	MW-08	Total Recoverable	Water	3005A	
680-213916-3	OW-22	Total Recoverable	Water	3005A	
680-213916-4	OW-22F	Dissolved	Water	3005A	
680-213916-6	MW-14	Total Recoverable	Water	3005A	
680-213916-7	OW-21A	Total Recoverable	Water	3005A	
680-213916-8	OW-21AF	Dissolved	Water	3005A	
MB 680-715873/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-715873/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 715883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213916-1	MW-09A	Total/NA	Water	7470A	
MB 680-715883/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-715883/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 715888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213916-2	MW-08	Total/NA	Water	7470A	
680-213916-3	OW-22	Total/NA	Water	7470A	
680-213916-4	OW-22F	Dissolved	Water	7470A	
680-213916-6	MW-14	Total/NA	Water	7470A	
680-213916-7	OW-21A	Total/NA	Water	7470A	
680-213916-8	OW-21AF	Dissolved	Water	7470A	
MB 680-715888/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-715888/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-213916-8 MS	OW-21AF	Dissolved	Water	7470A	
680-213916-8 MSD	OW-21AF	Dissolved	Water	7470A	

Metals

Analysis Batch: 716326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213916-1	MW-09A	Total/NA	Water	7470A	715883
680-213916-2	MW-08	Total/NA	Water	7470A	715888
680-213916-3	OW-22	Total/NA	Water	7470A	715888
680-213916-4	OW-22F	Dissolved	Water	7470A	715888
680-213916-6	MW-14	Total/NA	Water	7470A	715888
680-213916-7	OW-21A	Total/NA	Water	7470A	715888
680-213916-8	OW-21AF	Dissolved	Water	7470A	715888
MB 680-715883/1-A	Method Blank	Total/NA	Water	7470A	715883
MB 680-715888/1-A	Method Blank	Total/NA	Water	7470A	715888
LCS 680-715883/2-A	Lab Control Sample	Total/NA	Water	7470A	715883
LCS 680-715888/2-A	Lab Control Sample	Total/NA	Water	7470A	715888
680-213916-8 MS	OW-21AF	Dissolved	Water	7470A	715888
680-213916-8 MSD	OW-21AF	Dissolved	Water	7470A	715888

Analysis Batch: 716429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-213916-1	MW-09A	Total Recoverable	Water	6010C	715873
680-213916-2	MW-08	Total Recoverable	Water	6010C	715873
680-213916-3	OW-22	Total Recoverable	Water	6010C	715873
680-213916-4	OW-22F	Dissolved	Water	6010C	715873
680-213916-6	MW-14	Total Recoverable	Water	6010C	715873
680-213916-7	OW-21A	Total Recoverable	Water	6010C	715873
680-213916-8	OW-21AF	Dissolved	Water	6010C	715873
MB 680-715873/1-A	Method Blank	Total Recoverable	Water	6010C	715873
LCS 680-715873/2-A	Lab Control Sample	Total Recoverable	Water	6010C	715873

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213916-1

Client Sample ID: MW-09A

Date Collected: 04/10/22 08:37
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	717147	04/22/22 22:51	P1C	TAL SAV
	Instrument ID: CMSU									
Total/NA	Prep	3520C			1040.1 mL	1 mL	715834	04/14/22 20:00	IR	TAL SAV
Total/NA	Analysis	8270D		1			716752	04/21/22 02:47	T1C	TAL SAV
	Instrument ID: CMSE									
Total/NA	Prep	3520C			1007.9 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			718000	04/27/22 18:28	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1007.8 mL	2 mL	571965	04/15/22 14:13	KJZ	TAL DEN
Total/NA	Analysis	8141B		1			572329	04/19/22 17:03	MKW	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	715873	04/14/22 16:21	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			716429	04/18/22 16:39	BJB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	715883	04/14/22 17:08	BCB	TAL SAV
Total/NA	Analysis	7470A		1			716326	04/15/22 14:58	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: MW-08

Date Collected: 04/10/22 09:46
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	717147	04/22/22 23:15	P1C	TAL SAV
	Instrument ID: CMSU									
Total/NA	Prep	3520C			1032.4 mL	1 mL	715834	04/14/22 20:00	IR	TAL SAV
Total/NA	Analysis	8270D		1			716752	04/21/22 03:12	T1C	TAL SAV
	Instrument ID: CMSE									
Total/NA	Prep	3520C			1019.2 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			718000	04/27/22 18:42	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1038.2 mL	2 mL	571965	04/15/22 14:13	KJZ	TAL DEN
Total/NA	Analysis	8141B		1			572329	04/19/22 17:43	MKW	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	715873	04/14/22 16:21	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			716429	04/18/22 16:42	BJB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	715888	04/14/22 17:34	BCB	TAL SAV
Total/NA	Analysis	7470A		1			716326	04/15/22 15:16	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213916-1

Client Sample ID: OW-22

Date Collected: 04/10/22 13:03
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	717147	04/22/22 20:49	P1C	TAL SAV
	Instrument ID: CMSU									
Total/NA	Prep	3520C			1044.9 mL	1 mL	715834	04/14/22 20:00	IR	TAL SAV
Total/NA	Analysis	8270D		1			716958	04/21/22 18:43	T1C	TAL SAV
	Instrument ID: CMSE									
Total/NA	Prep	3520C			1017.6 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			718000	04/27/22 18:57	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1042.2 mL	2 mL	571965	04/15/22 14:13	KJZ	TAL DEN
Total/NA	Analysis	8141B		1			572329	04/19/22 18:22	MKW	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	715873	04/14/22 16:21	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			716429	04/18/22 16:45	BJB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	715888	04/14/22 17:34	BCB	TAL SAV
Total/NA	Analysis	7470A		1			716326	04/15/22 15:19	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: OW-22F

Date Collected: 04/10/22 11:33
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1046.1 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			718000	04/27/22 19:11	JCK	TAL SAV
	Instrument ID: CSGAA									
Dissolved	Prep	3005A			50 mL	50 mL	715873	04/14/22 16:21	JE	TAL SAV
Dissolved	Analysis	6010C		1			716429	04/18/22 16:48	BJB	TAL SAV
	Instrument ID: ICPH									
Dissolved	Prep	7470A			50 mL	50 mL	715888	04/14/22 17:34	BCB	TAL SAV
Dissolved	Analysis	7470A		1			716326	04/15/22 15:21	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: MW-12A

Date Collected: 04/10/22 08:06
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1037.9 mL	1 mL	715834	04/14/22 20:00	IR	TAL SAV
Total/NA	Analysis	8270D		1			716958	04/21/22 19:07	T1C	TAL SAV
	Instrument ID: CMSE									
Total/NA	Prep	3520C			1034.3 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			718000	04/27/22 19:25	JCK	TAL SAV
	Instrument ID: CSGAA									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213916-1

Client Sample ID: MW-12A
Date Collected: 04/10/22 08:06
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1044 mL	2 mL	571965	04/15/22 14:13	KJZ	TAL DEN
Total/NA	Analysis	8141B		1			572329	04/19/22 19:01	MKW	TAL DEN
	Instrument ID: SGC_D2									

Client Sample ID: MW-14
Date Collected: 04/10/22 09:39
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	717147	04/22/22 21:13	P1C	TAL SAV
	Instrument ID: CMSU									
Total/NA	Prep	3520C			1036.7 mL	1 mL	715834	04/14/22 20:00	IR	TAL SAV
Total/NA	Analysis	8270D		1			716958	04/21/22 19:31	T1C	TAL SAV
	Instrument ID: CMSE									
Total/NA	Prep	3520C			1024.9 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			718000	04/27/22 19:39	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1037.9 mL	2 mL	571965	04/15/22 14:13	KJZ	TAL DEN
Total/NA	Analysis	8141B		1			572329	04/19/22 19:40	MKW	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	715873	04/14/22 16:21	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			716429	04/18/22 16:51	BJB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	715888	04/14/22 17:34	BCB	TAL SAV
Total/NA	Analysis	7470A		1			716326	04/15/22 15:36	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: OW-21A
Date Collected: 04/10/22 11:46
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	717445	04/25/22 18:41	P1C	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3520C			1005.6 mL	1 mL	715834	04/14/22 20:00	IR	TAL SAV
Total/NA	Analysis	8270D		1			716958	04/21/22 19:56	T1C	TAL SAV
	Instrument ID: CMSE									
Total/NA	Prep	3520C	DL		1005.6 mL	1 mL	715834	04/14/22 20:00	IR	TAL SAV
Total/NA	Analysis	8270D	DL	50			716958	04/21/22 20:20	T1C	TAL SAV
	Instrument ID: CMSE									
Total/NA	Prep	3520C			1034.7 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			718000	04/27/22 19:54	JCK	TAL SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3520C			1034.7 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		5			718199	04/28/22 18:25	UI	TAL SAV
	Instrument ID: CSGJ									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213916-1

Client Sample ID: OW-21A
Date Collected: 04/10/22 11:46
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1026.3 mL	2 mL	571965	04/15/22 14:13	KJZ	TAL DEN
Total/NA	Analysis	8141B		10			572329	04/19/22 20:19	MKW	TAL DEN
	Instrument ID: SGC_D2									
Total/NA	Prep	3510C	DL		1026.3 mL	2 mL	571965	04/15/22 14:13	KJZ	TAL DEN
Total/NA	Analysis	8141B	DL	50			572415	04/20/22 16:58	MKW	TAL DEN
	Instrument ID: SGC_D2									
Total Recoverable	Prep	3005A			50 mL	50 mL	715873	04/14/22 16:21	JE	TAL SAV
Total Recoverable	Analysis	6010C		1			716429	04/18/22 16:54	BJB	TAL SAV
	Instrument ID: ICPH									
Total/NA	Prep	7470A			50 mL	50 mL	715888	04/14/22 17:34	BCB	TAL SAV
Total/NA	Analysis	7470A		1			716326	04/15/22 15:44	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: OW-21AF
Date Collected: 04/10/22 11:46
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			1021 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Dissolved	Analysis	8081B/8082A		1			718000	04/27/22 20:08	JCK	TAL SAV
	Instrument ID: CSGAA									
Dissolved	Prep	3005A			50 mL	50 mL	715873	04/14/22 16:21	JE	TAL SAV
Dissolved	Analysis	6010C		1			716429	04/18/22 16:56	BJB	TAL SAV
	Instrument ID: ICPH									
Dissolved	Prep	7470A			50 mL	50 mL	715888	04/14/22 17:34	BCB	TAL SAV
Dissolved	Analysis	7470A		1			716326	04/15/22 15:06	JKL	TAL SAV
	Instrument ID: QuickTrace2									

Client Sample ID: Tripblank 20220411A
Date Collected: 04/11/22 13:50
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	717329	04/23/22 18:14	Y1S	TAL SAV
	Instrument ID: CMSC									

Client Sample ID: PURGEWATER
Date Collected: 04/11/22 09:52
Date Received: 04/12/22 10:40

Lab Sample ID: 680-213916-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1031.3 mL	5 mL	717264	04/22/22 22:30	IR	TAL SAV
Total/NA	Analysis	8081B/8082A		1			718199	04/28/22 18:43	UI	TAL SAV
	Instrument ID: CSGJ									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213916-1

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Job ID: 680-213916-1
Project/Site: Anniston RCRA April 2022

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-22

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-23
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-09-23
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	11-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA April 2022

Job ID: 680-213916-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	TAL DEN
6010C	Metals (ICP)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV
7470A	Preparation, Mercury	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone. 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: JA EGK AJV	Lab PM: Weinberg Amy	Carrier Tracking No(s):	COC No: 680-134396-49183 11
Client Contact: Mr Jerry Hopper	Phone: 713-522-6300	E-Mail: amy.weinberg@Eurofinset.com	State of Origin:	Page: ~~Page 11 of 13~~ Page 1 of 1
Company: Solutia Inc.	PWSID:			Job #: 6122
Address: 702 Clydesdale Ave	Due Date Requested			
City: Anniston	TAT Requested (days): standard			
State, Zip: AL, 36201-5328	Compliance Project: Δ Yes Δ No			
Phone: 713-522-6300(Tel)	PO #: ~~45008622~~ 4920068			
Email: johopp@eastman.com	WO #:			
Project Name: Anniston RCRA April 2022	Project #: 68018993			
	SSOW#:			

680-213916 Chain of Custody

Analysis Requested

Preservation Codes

A - HCL	M Hexane
B NaOH	N None
C Zn Acetate	O AsNaO2
D Nitric Acid	P Na2O4S
E NaHSO4	Q Na2SO3
F - MeOH	R Na2S2O3
G Amchlor	S H2SO4
H - Ascorbic Acid	T TSP Dodecahydrate
I - Ice	U Acetone
J - DI Water	V - MCAA
K - EDTA	W pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Chlorobenzene	8260B 1,2,4-TCB/ Chlorobenzene	8270D - 1,2-DCB,/1,4-DCB/4-NP/ooo-TEPP	8270D 4 NP/ooo TEPP	8270D - 1,2-DCB,/1,4 DCB/4 NP/ooo TEPP/2,4	8270D 1,2-DCB,/1,4-DCB/4-NP/ooo TEPP/Ind	8081B_8082A PCB	8141B Parathion/Sulfotepp	8141B Parathion	6010C Cobalt	6010C Cobalt/Manganese	7470A - Total Hg	Total Number of containers	Special Instructions/Note
Preservation Code:						A	A	N	N	N	N	N	N	N	D	D	D		
MW-09A	4/10/22	937	G Water			X		X				X	X		X		X	10	
MW-08	4/10/22	946	G Water			X		X				X	X		X		X	10	
OW-22	4/10/22	1133	G Water			X		X				X	X		X		X	10	
OW-22F	4/10/22	1133	G Water	X								X			X		X	3	
~~T-04~~ MW-12A	4/10/22	806	G Water						X			X		X				6	
~~T-04F~~ MW-14	4/10/22	939	G Water			X		X				X	X			X	X	10	
OW-21A	4/10/22	1146	G Water			X		X				X	X			X	X	10	
OW-21AF	4/10/22	1146	G Water	X								X				X		3	
Tripblank20220411A	4/11/22	1350	— Water				X											2	
PURGEWATER	4/11/22	952	G Water									X						2	
			Water																

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify): Level II

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jessica Hanns	4/11/22 1400	GSI		4/12 10 40	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		1.3 | 1.3 | 1.6 | 1.1 | 3.6
		0.7 | 0.7 | 1.0 | 0.5 | 3.0 Ve

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Weinberg, Amy	Carrier Tracking No(s)	COC No: 680-690149.1
Client Contact: Shipping/Receiving	Phone	E-Mail: amy.weinberg@et.eurofinsus com	State of Origin: Alabama	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Alabama		Job #: 680-213916-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 4/25/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #			
Email	WO #			
Project Name: Anniston RCRA April 2022	Project #: 68018993			
Site.	SSOW#			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3510C Parathion/Sulfotepp	8141B/3510C Parathion	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-09A (680-213916-1)	4/10/22	08:37 Central		Water			X		2	
MW-08 (680-213916-2)	4/10/22	09:46 Central		Water			X		2	
OW-22 (680-213916-3)	4/10/22	13:03 Central		Water			X		2	
MW-12A (680-213916-5)	4/10/22	08:06 Central		Water				X	2	
MW-14 (680-213916-6)	4/10/22	09:39 Central		Water			X		2	
OW-21A (680-213916-7)	4/10/22	11:46 Central		Water			X		2	

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		4/13 1000			4/14/22 1135	EET DEN
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 577752, 577756	Cooler Temperature(s) °C and Other Remarks: 0.5, 0.1 IR12 CF+0.1

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-213916-1

Login Number: 213916
List Number: 1
Creator: Padayao, Abigail

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-213916-1

Login Number: 213916
List Number: 2
Creator: Lee, Jerry

List Source: Eurofins Denver
List Creation: 04/14/22 09:10 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

OCTOBER 2022 LABORATORY REPORTS

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QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Noel Savoie
Project Name: RCRA Groundwater Monitoring Project Number: 680-224226-1
Reviewer: Jessica Alanis Validation Date: 9 January 2023

Laboratory: Eurofins TestAmerica Savannah SDG #: 680-224226-1
Analytical Method (type and no.): VOCs (8260B), SVOCS (8270D), PCBs (8081A/8082B), Pesticides (8141B)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: MW-01B, MW-20A, MW-16, MW-11A, MW-12A, MW-15, DUPLICATE, Purge water, Trip Blank20221026

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?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	DUPLICATE collected at MW-20A, Trip Blank20221026
g) Field parameters collected (note types)?	☒	☐	☐	Temp., pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☒	☐	☐	
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☒	☐	☐	

Note Deficiencies: Internal standard recoveries for method 8141B in MW-12A, MW-15, MSD, MW-20A, MW-01B, DUPLICATE, MW-11A, and the method blank exceeded control limits on one column, but met the limit on the other, so no qualification is required. Recoveries of Parathion and Tetraethydithiopyrophosphate in Method 8141B CCV exceeded control limits. Associated samples were all non-detect, therefore the data have been reported and no qualification is required.

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

General (reference QAPP or Method)	**YES**	**NO**	**NA**	**COMMENTS**
a) Were hold times met for sample pretreatment?	☐	☒	☐	Extraction for method 8141B and method 8270D occurred longer than the technical holding time of 7 days for samples MW-16, MW-15, MW-12A, and MW-01B. Detected results are qualified J and non-detect results are qualified UJ.
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☒	☐	☐	
g) Were any matrix problems noted?	☐	☒	☐	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☒	☐	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	The RPD between the primary and confirmation columns of the LCS for method 8081B/ 8082A was >40%. The lower value was reported which was still within control limits; therefore, no sample results are qualified on this basis.

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?				Original = MW-20A
	☒	☐	☐	Duplicate = DUPLICATE
b) Were field dup. precision criteria met (note RPD)?	☒	☐	☐	Chlorobenzene = 25%, O,O,O-Triethylphosphorothioate = 14%
c) Were lab duplicates analyzed (note original and duplicate samples)?				Multiple LCSDs
	☒	☐	☐	
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	All RPDs ≤ 5 %

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☒	☐	☐	The case narrative indicated that "insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-749480. However, MS/MSD samples were collected and analyzed (as part of analytical batch 680-749434) at the correct frequency (once every 20 samples).
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☒	☐	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☒	☐	☐	

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☐	☒	☐	Surrogate DCB of method 8081B/8082A recovered low (below the lab standard of 14%) for sample MW-20A at 11% and for sample Purge water at 10%. Respective analytes are qualified on this basis as UJ. Surrogate Triphenylphosphate of method 8141B recovered low (below the lab

standard of 60%) for sample DUPLICATE at 58% and sample MW-11A at 57%. Respective analytes are qualified on this basis as UJ.

b) Were surrogate recoveries not calculated due to dilutions? ☐ ☐ ☒ _____

Comments/Notes:

_____

Data Qualification:

Sample Name	Constituent(s)	Result (ug/L)	Qualifier	Reason
MW-16	4-Nitrophenol	25	J	Extraction outside technical holding time.
MW-16	O,O,O-Triethylphosphorothioate	49	J	Extraction outside technical holding time.
MW-15	4-Nitrophenol	<25	UJ	Extraction outside technical holding time.
MW-15	O,O,O-Triethylphosphorothioate	<10	UJ	Extraction outside technical holding time.
MW-12A	4-Nitrophenol	<25	UJ	Extraction outside technical holding time.
MW-12A	O,O,O-Triethylphosphorothioate	<10	UJ	Extraction outside technical holding time.
MW-01B	4-Nitrophenol	<25	UJ	Extraction outside technical holding time.
MW-01B	O,O,O-Triethylphosphorothioate	<10	UJ	Extraction outside technical holding time.
MW-16	Parathion	<1	UJ	Extraction outside technical holding time.
MW-16	Tetraethyldithiopyrophosphate	<1.5	UJ	Extraction outside technical holding time.
MW-15	Parathion	<1	UJ	Extraction outside technical holding time.
MW-15	Tetraethyldithiopyrophosphate	<1.5	UJ	Extraction outside technical holding time.
MW-12A	Parathion	<1	UJ	Extraction outside technical holding time.
MW-01B	Parathion	<1	UJ	Extraction outside technical holding time.
MW-01B	Tetraethyldithiopyrophosphate	<1.5	UJ	Extraction outside technical holding time.
MW-20A	PCB-1016	<0.5	UJ	Low DCB recovery.
MW-20A	PCB-1221	<0.5	UJ	Low DCB recovery.
MW-20A	PCB-1232	<0.5	UJ	Low DCB recovery.
MW-20A	PCB-1242	<0.5	UJ	Low DCB recovery.
MW-20A	PCB-1248	<0.5	UJ	Low DCB recovery.
MW-20A	PCB-1254	<0.5	UJ	Low DCB recovery.
MW-20A	PCB-1260	<0.5	UJ	Low DCB recovery.
MW-20A	PCB-1268	<0.5	UJ	Low DCB recovery.
Purge water	PCB-1016	<0.5	UJ	Low DCB recovery.
Purge water	PCB-1221	<0.5	UJ	Low DCB recovery.
Purge water	PCB-1232	<0.5	UJ	Low DCB recovery.
Purge water	PCB-1242	<0.5	UJ	Low DCB recovery.
Purge water	PCB-1248	<0.5	UJ	Low DCB recovery.

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Purge water	PCB-1254	<0.5	UJ	Low DCB recovery.
Purge water	PCB-1260	<0.5	UJ	Low DCB recovery.
Purge water	PCB-1268	<0.5	UJ	Low DCB recovery.
DUPLICATE	Parathion	<1	UJ	Low Triphenylphosphate recovery.
DUPLICATE	Tetraethyldithiopyrophosphate	<1.5	UJ	Low Triphenylphosphate recovery.
MW-11A	Parathion	<1	UJ	Low Triphenylphosphate recovery.

Signature: Jessica Alanis Date: 9 January 2023

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Noel Savoie
Project Name: RCRA Groundwater Monitoring Project Number: 680-224226-1
Reviewer: Jessica Alanis Validation Date: 30 December 2022

Laboratory: Eurofins TestAmerica Savannah SDG #: 680-224226-1
Analytical Method (type and no.): Metals (6010C)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: MW-16, MW-15, MW-20A, MW-01B, DUPLICATE

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?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☒	☐	☐	DUPLICATE collected at MW-20A
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☒	☐	☐	
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	
Note Deficiencies:				

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

General (reference QAPP or Method)	**YES**	**NO**	**NA**	**COMMENTS**
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☐	☒	☐	
g) Were any matrix problems noted?	☐	☒	☐	

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Blanks	**YES**	**NO**	**NA**	**COMMENTS**
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	**YES**	**NO**	**NA**	**COMMENTS**
a) Were field duplicates collected (note original and duplicate sample names)?	☒	☐	☐	Original = MW-20A, Duplicate = DUPLICATE
b) Were field dup. precision criteria met (note RPD)?	☒	☐	☐	MW-20A and DUPLICATE results all ND.
c) Were lab duplicates analyzed (note original and duplicate samples)?	☐	☒	☐	
d) Were lab dup. precision criteria met (note RPD)?	☐	☐	☒	

Blind Standards	**YES**	**NO**	**NA**	**COMMENTS**
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was MS accuracy criteria met?	☒	☐	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☒	☐	☐	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☒	☐	☐	

Comments/Notes:
No data require qualification.

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: Jessica Adams Date: 30 December 2022

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Smith
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Generated 1/5/2023 9:29:35 AM Revision 2

JOB DESCRIPTION

Anniston RCRA Oct 2022

JOB NUMBER

680-224226-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Revision 2

Authorized for release by
Noel Savoie, Project Manager I
Noel.Savoie@et.eurofinsus.com
(850)254-0107

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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224226-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 680-224226-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-224226-1

Revision
The report being provided is a revision of the original report sent on 12/15/2022. The report (revision 1) is being revised due to correct case narrative.
The report being provided is a revision of the revised report sent on 12/16/2022. The report (revision 2) is being revised to remove the statement for 8082A (does not apply to prep 3520).

Receipt
The samples were received on 10/27/2022 10:30 AM and 10/28/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 1.3°C, 1.4°C, 1.8°C, 2.1°C, 2.1°C, 2.6°C, 2.9°C and 3.0°C

Receipt Exceptions
One cooler was received on 10/28/2022. The cooler contained the containers for method 8141 for sample MW-16 and method 8082 for sample MW-11A.

GC/MS VOA
Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-749480.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8141B: Surrogate Triphenylphosphate recovery for the following samples in preparation batch 280-592157 and analytical batch 280-592380 was outside control limits: DUPLICATE (680-224226-6) and MW-11A (680-224226-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8141B: Internal standard (ISTD) response for the following samples in preparation batch 280-592157 and analytical batch 280-592380 exceeded the control limit on the back column: MW-12A (680-224226-1), MW-15 (680-224226-3), MW-15 (680-224226-3[MSD]), MW-20A (680-224226-4), MW-01B (680-224226-5), DUPLICATE (680-224226-6), MW-11A (680-224226-7) and (MB 280-592157/1-A). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

Method 8141B: The following samples were analyzed outside of analytical holding time due to a scheduling error: MW-12A (680-224226-1), MW-15 (680-224226-3), MW-15 (680-224226-3[MSD]), MW-20A (680-224226-4), MW-01B (680-224226-5), and MW-16 (680-224330-1).

Method 8141B: The surrogate recovery for the MSD associated with preparation batch 280-592596 and analytical batch 280-592829 was outside the lower control limits. Surrogate is in control in the parent sample.

Method 8141B: The continuing calibration verification (CCV) associated with preparation batch 280-592596 and analytical batch 280-592829 recovered above the upper control limit for Tetraethyldithiopyrophosphate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-16 (680-224330-1), (CCV 280-592829/20), (CCV 280-592829/36), (680-224345-A-4-A), (680-224345-A-4-B MS) and (680-224345-B-4-A MSD).

Method 8141B: The continuing calibration verification (CCV) associated with preparation batch 280-592596 and analytical batch 280-592829 recovered above the upper control limit for Parathion and Tetraethyldithiopyrophosphate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-16

Job ID: 680-224226-1 (Continued)

Laboratory: Eurofins Savannah (Continued)

(680-224330-1), (CCVIS 280-592829/3), (680-224345-A-4-A), (680-224345-A-4-B MS) and (680-224345-B-4-A MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224226-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-224226-1	MW-12A	Water	10/25/22 12:02	10/27/22 10:30
680-224226-2	MW-16	Water	10/25/22 13:50	10/27/22 10:30
680-224226-3	MW-15	Water	10/25/22 16:18	10/27/22 10:30
680-224226-4	MW-20A	Water	10/26/22 08:06	10/27/22 10:30
680-224226-5	MW-01B	Water	10/25/22 08:29	10/27/22 10:30
680-224226-6	DUPLICATE	Water	10/26/22 00:00	10/27/22 10:30
680-224226-7	MW-11A	Water	10/26/22 11:49	10/27/22 10:30
680-224226-8	Trip Blank20221026	Water	10/26/22 00:00	10/27/22 10:30
680-224226-9	Purge water	Water	10/22/22 13:10	10/27/22 10:30
680-224330-1	MW-16	Water	10/25/22 13:50	10/28/22 10:30
680-224330-2	MW-11A	Water	10/26/22 11:49	10/28/22 10:30

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224226-1

Client Sample ID: MW-12A — Lab Sample ID: 680-224226-1

No Detections.

Client Sample ID: MW-16 — Lab Sample ID: 680-224226-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Nitrophenol	25		25	1.8	ug/L	1		8270D	Total/NA
o,o',o''-Triethylphosphorothioate	49		10	0.97	ug/L	1		8270D	Total/NA

Client Sample ID: MW-15 — Lab Sample ID: 680-224226-3

No Detections.

Client Sample ID: MW-20A — Lab Sample ID: 680-224226-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	1.4		1.0	0.15	ug/L	1		8260D	Total/NA
o,o',o''-Triethylphosphorothioate	39		10	0.96	ug/L	1		8270D	Total/NA

Client Sample ID: MW-01B — Lab Sample ID: 680-224226-5

No Detections.

Client Sample ID: DUPLICATE — Lab Sample ID: 680-224226-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	1.8		1.0	0.15	ug/L	1		8260D	Total/NA
o,o',o''-Triethylphosphorothioate	45		10	0.96	ug/L	1		8270D	Total/NA

Client Sample ID: MW-11A — Lab Sample ID: 680-224226-7

No Detections.

Client Sample ID: Trip Blank20221026 — Lab Sample ID: 680-224226-8

No Detections.

Client Sample ID: Purge water — Lab Sample ID: 680-224226-9

No Detections.

Client Sample ID: MW-16 — Lab Sample ID: 680-224330-1

No Detections.

Client Sample ID: MW-11A — Lab Sample ID: 680-224330-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Savannah

Client Sample ID: MW-12A

Date Collected: 10/25/22 12:02
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-1

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		11/02/22 20:50	11/06/22 22:23	1
o,o',o''-Triethylphosphorothioate	<10		10	0.96	ug/L		11/02/22 20:50	11/06/22 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*51*		*32 - 113*	*11/02/22 20:50*	*11/06/22 22:23*	*1*
2-Fluorophenol	*39*		*26 - 109*	*11/02/22 20:50*	*11/06/22 22:23*	*1*
Nitrobenzene-d5	*47*		*32 - 118*	*11/02/22 20:50*	*11/06/22 22:23*	*1*
Phenol-d5	*38*		*27 - 110*	*11/02/22 20:50*	*11/06/22 22:23*	*1*
Terphenyl-d14	*62*		*10 - 126*	*11/02/22 20:50*	*11/06/22 22:23*	*1*
2,4,6-Tribromophenol	*53*		*39 - 124*	*11/02/22 20:50*	*11/06/22 22:23*	*1*

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 18:33	1
PCB-1221	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 18:33	1
PCB-1232	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 18:33	1
PCB-1242	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 18:33	1
PCB-1248	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 18:33	1
PCB-1254	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 18:33	1
PCB-1260	<0.50		0.50	0.059	ug/L		11/29/22 20:20	12/01/22 18:33	1
PCB-1268	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*14 - 130*	*11/29/22 20:20*	*12/01/22 18:33*	*1*
Tetrachloro-m-xylene	*66*		*40 - 130*	*11/29/22 20:20*	*12/01/22 18:33*	*1*

Method: SW846 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0	H	1.0	0.14	ug/L		11/02/22 15:44	11/04/22 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*65*		*60 - 154*	*11/02/22 15:44*	*11/04/22 15:45*	*1*

Client Sample ID: MW-16

Date Collected: 10/25/22 13:50
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-2

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			11/08/22 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*11/08/22 19:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*11/08/22 19:46*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/08/22 19:46*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/08/22 19:46*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	**25**		25	1.8	ug/L		11/02/22 20:50	11/06/22 22:46	1
o,o',o''-Triethylphosphorothioate	**49**		10	0.97	ug/L		11/02/22 20:50	11/06/22 22:46	1

Client Sample ID: MW-16

Date Collected: 10/25/22 13:50
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		32 - 113	11/02/22 20:50	11/06/22 22:46	1
2-Fluorophenol	43		26 - 109	11/02/22 20:50	11/06/22 22:46	1
Nitrobenzene-d5	57		32 - 118	11/02/22 20:50	11/06/22 22:46	1
Phenol-d5	44		27 - 110	11/02/22 20:50	11/06/22 22:46	1
Terphenyl-d14	74		10 - 126	11/02/22 20:50	11/06/22 22:46	1
2,4,6-Tribromophenol	70		39 - 124	11/02/22 20:50	11/06/22 22:46	1

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		10/31/22 05:14	10/31/22 18:33	1

Client Sample ID: MW-15

Date Collected: 10/25/22 16:18
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			11/08/22 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		70 - 130		11/08/22 15:15	1
1,2-Dichloroethane-d4 (Surr)	121		60 - 124		11/08/22 15:15	1
Dibromofluoromethane (Surr)	128		70 - 130		11/08/22 15:15	1
4-Bromofluorobenzene (Surr)	86		70 - 130		11/08/22 15:15	1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		11/02/22 20:50	11/06/22 23:10	1
o,o',o''-Triethylphosphorothioate	<10		10	0.99	ug/L		11/02/22 20:50	11/06/22 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		32 - 113	11/02/22 20:50	11/06/22 23:10	1
2-Fluorophenol	46		26 - 109	11/02/22 20:50	11/06/22 23:10	1
Nitrobenzene-d5	57		32 - 118	11/02/22 20:50	11/06/22 23:10	1
Phenol-d5	47		27 - 110	11/02/22 20:50	11/06/22 23:10	1
Terphenyl-d14	83		10 - 126	11/02/22 20:50	11/06/22 23:10	1
2,4,6-Tribromophenol	70		39 - 124	11/02/22 20:50	11/06/22 23:10	1

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:48	1
PCB-1221	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:48	1
PCB-1232	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:48	1
PCB-1242	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:48	1
PCB-1248	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:48	1
PCB-1254	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:48	1
PCB-1260	<0.50		0.50	0.060	ug/L		11/29/22 20:20	12/01/22 18:48	1
PCB-1268	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	86		14 - 130	11/29/22 20:20	12/01/22 18:48	1
Tetrachloro-m-xylene	66		40 - 130	11/29/22 20:20	12/01/22 18:48	1

Client Sample ID: MW-15

Date Collected: 10/25/22 16:18
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-3
Matrix: Water

Method: SW846 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0	H	1.0	0.14	ug/L		11/02/22 15:44	11/04/22 16:23	1
Tetraethyldithiopyrophosphate	<1.5	H	1.5	0.17	ug/L		11/02/22 15:44	11/04/22 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*63*		*60 - 154*	*11/02/22 15:44*	*11/04/22 16:23*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		10/31/22 05:14	10/31/22 17:27	1

Client Sample ID: MW-20A

Date Collected: 10/26/22 08:06
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**1.4**		1.0	0.15	ug/L			11/08/22 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/08/22 20:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*11/08/22 20:10*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/08/22 20:10*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*11/08/22 20:10*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		11/02/22 20:50	11/06/22 23:34	1
o,o',o''-Triethylphosphorothioate	**39**		10	0.96	ug/L		11/02/22 20:50	11/06/22 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*32 - 113*	*11/02/22 20:50*	*11/06/22 23:34*	*1*
2-Fluorophenol	*43*		*26 - 109*	*11/02/22 20:50*	*11/06/22 23:34*	*1*
Nitrobenzene-d5	*58*		*32 - 118*	*11/02/22 20:50*	*11/06/22 23:34*	*1*
Phenol-d5	*45*		*27 - 110*	*11/02/22 20:50*	*11/06/22 23:34*	*1*
Terphenyl-d14	*64*		*10 - 126*	*11/02/22 20:50*	*11/06/22 23:34*	*1*
2,4,6-Tribromophenol	*74*		*39 - 124*	*11/02/22 20:50*	*11/06/22 23:34*	*1*

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		11/29/22 20:20	12/01/22 19:02	1
PCB-1221	<0.50		0.50	0.087	ug/L		11/29/22 20:20	12/01/22 19:02	1
PCB-1232	<0.50		0.50	0.087	ug/L		11/29/22 20:20	12/01/22 19:02	1
PCB-1242	<0.50		0.50	0.087	ug/L		11/29/22 20:20	12/01/22 19:02	1
PCB-1248	<0.50		0.50	0.087	ug/L		11/29/22 20:20	12/01/22 19:02	1
PCB-1254	<0.50		0.50	0.087	ug/L		11/29/22 20:20	12/01/22 19:02	1
PCB-1260	<0.50		0.50	0.058	ug/L		11/29/22 20:20	12/01/22 19:02	1
PCB-1268	<0.50		0.50	0.087	ug/L		11/29/22 20:20	12/01/22 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*11*	*p S1-*	*14 - 130*	*11/29/22 20:20*	*12/01/22 19:02*	*1*
Tetrachloro-m-xylene	*56*		*40 - 130*	*11/29/22 20:20*	*12/01/22 19:02*	*1*

Client Sample ID: MW-20A

Date Collected: 10/26/22 08:06
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-4
Matrix: Water

Method: SW846 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		11/02/22 15:44	11/04/22 18:19	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.16	ug/L		11/02/22 15:44	11/04/22 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*60*		*60 - 154*	*11/02/22 15:44*	*11/04/22 18:19*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		10/31/22 05:14	10/31/22 18:36	1

Client Sample ID: MW-01B

Date Collected: 10/25/22 08:29
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			11/08/22 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/08/22 16:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*11/08/22 16:39*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/08/22 16:39*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/08/22 16:39*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		11/02/22 20:50	11/06/22 23:58	1
o,o',o''-Triethylphosphorothioate	<10		10	1.0	ug/L		11/02/22 20:50	11/06/22 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*32 - 113*	*11/02/22 20:50*	*11/06/22 23:58*	*1*
2-Fluorophenol	*67*		*26 - 109*	*11/02/22 20:50*	*11/06/22 23:58*	*1*
Nitrobenzene-d5	*75*		*32 - 118*	*11/02/22 20:50*	*11/06/22 23:58*	*1*
Phenol-d5	*66*		*27 - 110*	*11/02/22 20:50*	*11/06/22 23:58*	*1*
Terphenyl-d14	*91*		*10 - 126*	*11/02/22 20:50*	*11/06/22 23:58*	*1*
2,4,6-Tribromophenol	*81*		*39 - 124*	*11/02/22 20:50*	*11/06/22 23:58*	*1*

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 19:17	1
PCB-1221	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 19:17	1
PCB-1232	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 19:17	1
PCB-1242	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 19:17	1
PCB-1248	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 19:17	1
PCB-1254	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 19:17	1
PCB-1260	<0.50		0.50	0.060	ug/L		11/29/22 20:20	12/01/22 19:17	1
PCB-1268	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*14 - 130*	*11/29/22 20:20*	*12/01/22 19:17*	*1*
Tetrachloro-m-xylene	*68*		*40 - 130*	*11/29/22 20:20*	*12/01/22 19:17*	*1*

Client Sample ID: MW-01B

Date Collected: 10/25/22 08:29
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-5
Matrix: Water

Method: SW846 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0	H	1.0	0.14	ug/L		11/02/22 15:44	11/04/22 18:58	1
Tetraethyldithiopyrophosphate	<1.5	H	1.5	0.16	ug/L		11/02/22 15:44	11/04/22 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*75*		*60 - 154*	*11/02/22 15:44*	*11/04/22 18:58*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		10/31/22 05:14	10/31/22 18:39	1

Client Sample ID: DUPLICATE

Date Collected: 10/26/22 00:00
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**1.8**		1.0	0.15	ug/L			11/08/22 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*70 - 130*		*11/08/22 16:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*11/08/22 16:59*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*11/08/22 16:59*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*11/08/22 16:59*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		11/02/22 20:50	11/07/22 00:22	1
o,o',o''-Triethylphosphorothioate	**45**		10	0.96	ug/L		11/02/22 20:50	11/07/22 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*32 - 113*	*11/02/22 20:50*	*11/07/22 00:22*	*1*
2-Fluorophenol	*42*		*26 - 109*	*11/02/22 20:50*	*11/07/22 00:22*	*1*
Nitrobenzene-d5	*60*		*32 - 118*	*11/02/22 20:50*	*11/07/22 00:22*	*1*
Phenol-d5	*45*		*27 - 110*	*11/02/22 20:50*	*11/07/22 00:22*	*1*
Terphenyl-d14	*64*		*10 - 126*	*11/02/22 20:50*	*11/07/22 00:22*	*1*
2,4,6-Tribromophenol	*72*		*39 - 124*	*11/02/22 20:50*	*11/07/22 00:22*	*1*

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.087	ug/L		11/29/22 20:20	12/01/22 19:31	1
PCB-1221	<0.50		0.50	0.087	ug/L		11/29/22 20:20	12/01/22 19:31	1
PCB-1232	<0.50		0.50	0.087	ug/L		11/29/22 20:20	12/01/22 19:31	1
PCB-1242	<0.50		0.50	0.087	ug/L		11/29/22 20:20	12/01/22 19:31	1
PCB-1248	<0.50		0.50	0.087	ug/L		11/29/22 20:20	12/01/22 19:31	1
PCB-1254	<0.50		0.50	0.087	ug/L		11/29/22 20:20	12/01/22 19:31	1
PCB-1260	<0.50		0.50	0.058	ug/L		11/29/22 20:20	12/01/22 19:31	1
PCB-1268	<0.50		0.50	0.087	ug/L		11/29/22 20:20	12/01/22 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*44*	*p*	*14 - 130*	*11/29/22 20:20*	*12/01/22 19:31*	*1*
Tetrachloro-m-xylene	*69*		*40 - 130*	*11/29/22 20:20*	*12/01/22 19:31*	*1*

Client Sample ID: DUPLICATE

Lab Sample ID: 680-224226-6

Date Collected: 10/26/22 00:00

Matrix: Water

Date Received: 10/27/22 10:30

Method: SW846 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		11/02/22 15:44	11/04/22 19:37	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.16	ug/L		11/02/22 15:44	11/04/22 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*58*	*S1-*	*60 - 154*	*11/02/22 15:44*	*11/04/22 19:37*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		10/31/22 05:14	10/31/22 18:42	1

Client Sample ID: MW-11A

Lab Sample ID: 680-224226-7

Date Collected: 10/26/22 11:49

Matrix: Water

Date Received: 10/27/22 10:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.8	ug/L		11/02/22 20:50	11/07/22 00:46	1
o,o',o''-Triethylphosphorothioate	<10		10	0.97	ug/L		11/02/22 20:50	11/07/22 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*32 - 113*	*11/02/22 20:50*	*11/07/22 00:46*	*1*
2-Fluorophenol	*47*		*26 - 109*	*11/02/22 20:50*	*11/07/22 00:46*	*1*
Nitrobenzene-d5	*56*		*32 - 118*	*11/02/22 20:50*	*11/07/22 00:46*	*1*
Phenol-d5	*46*		*27 - 110*	*11/02/22 20:50*	*11/07/22 00:46*	*1*
Terphenyl-d14	*78*		*10 - 126*	*11/02/22 20:50*	*11/07/22 00:46*	*1*
2,4,6-Tribromophenol	*63*		*39 - 124*	*11/02/22 20:50*	*11/07/22 00:46*	*1*

Method: SW846 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		11/02/22 15:44	11/04/22 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*57*	*S1-*	*60 - 154*	*11/02/22 15:44*	*11/04/22 20:15*	*1*

Client Sample ID: Trip Blank20221026

Lab Sample ID: 680-224226-8

Date Collected: 10/26/22 00:00

Matrix: Water

Date Received: 10/27/22 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			11/08/22 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*119*		*70 - 130*		*11/08/22 15:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*11/08/22 15:36*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*11/08/22 15:36*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*11/08/22 15:36*	*1*

Client Sample ID: Purge water

Date Collected: 10/22/22 13:10
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-9
Matrix: Water

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 19:45	1
PCB-1221	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 19:45	1
PCB-1232	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 19:45	1
PCB-1242	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 19:45	1
PCB-1248	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 19:45	1
PCB-1254	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 19:45	1
PCB-1260	<0.50		0.50	0.059	ug/L		11/29/22 20:20	12/01/22 19:45	1
PCB-1268	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*10*	*S1-*	*14 - 130*	*11/29/22 20:20*	*12/01/22 19:45*	*1*
Tetrachloro-m-xylene	*61*		*40 - 130*	*11/29/22 20:20*	*12/01/22 19:45*	*1*

Client Sample ID: MW-16

Date Collected: 10/25/22 13:50
Date Received: 10/28/22 10:30

Lab Sample ID: 680-224330-1
Matrix: Water

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.089	ug/L		12/07/22 18:45	12/08/22 19:03	1
PCB-1221	<0.50		0.50	0.089	ug/L		12/07/22 18:45	12/08/22 19:03	1
PCB-1232	<0.50		0.50	0.089	ug/L		12/07/22 18:45	12/08/22 19:03	1
PCB-1242	<0.50		0.50	0.089	ug/L		12/07/22 18:45	12/08/22 19:03	1
PCB-1248	<0.50		0.50	0.089	ug/L		12/07/22 18:45	12/08/22 19:03	1
PCB-1254	<0.50		0.50	0.089	ug/L		12/07/22 18:45	12/08/22 19:03	1
PCB-1260	<0.50		0.50	0.059	ug/L		12/07/22 18:45	12/08/22 19:03	1
PCB-1268	<0.50		0.50	0.089	ug/L		12/07/22 18:45	12/08/22 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*14 - 130*	*12/07/22 18:45*	*12/08/22 19:03*	*1*
Tetrachloro-m-xylene	*67*		*40 - 130*	*12/07/22 18:45*	*12/08/22 19:03*	*1*

Method: SW846 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0	H	1.0	0.14	ug/L		11/07/22 16:33	11/10/22 02:25	1
Tetraethyldithiopyrophosphate	<1.5	H	1.5	0.16	ug/L		11/07/22 16:33	11/10/22 02:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*101*		*60 - 154*	*11/07/22 16:33*	*11/10/22 02:25*	*1*

Client Sample ID: MW-11A

Date Collected: 10/26/22 11:49
Date Received: 10/28/22 10:30

Lab Sample ID: 680-224330-2
Matrix: Water

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 20:14	1
PCB-1221	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 20:14	1
PCB-1232	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 20:14	1
PCB-1242	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 20:14	1
PCB-1248	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 20:14	1

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224226-1

Client Sample ID: MW-11A
Date Collected: 10/26/22 11:49
Date Received: 10/28/22 10:30

Lab Sample ID: 680-224330-2
Matrix: Water

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 20:14	1
PCB-1260	<0.50		0.50	0.058	ug/L		11/29/22 20:20	12/01/22 20:14	1
PCB-1268	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*	*p*	*14 - 130*	*11/29/22 20:20*	*12/01/22 20:14*	*1*
Tetrachloro-m-xylene	*67*	*p*	*40 - 130*	*11/29/22 20:20*	*12/01/22 20:14*	*1*

Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224226-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	DBFM	BFB
Lab Sample ID	Client Sample ID	(70-130)	(60-124)	(70-130)	(70-130)
680-224226-2	MW-16	105	87	98	102
680-224226-3	MW-15	105	121	128	86
680-224226-3 MS	MW-15	97	102	101	93
680-224226-3 MSD	MW-15	98	105	103	94
680-224226-4	MW-20A	104	89	98	101
680-224226-5	MW-01B	104	86	101	102
680-224226-6	DUPLICATE	107	88	102	100
680-224226-8	Trip Blank20221026	119	80	109	96
LCS 680-749434/5	Lab Control Sample	99	106	106	96
LCS 680-749445/5	Lab Control Sample	108	100	104	100
LCS 680-749450/5	Lab Control Sample	114	83	110	96
LCS 680-749480/5	Lab Control Sample	105	99	102	102
LCSD 680-749434/6	Lab Control Sample Dup	99	105	108	95
LCSD 680-749445/7	Lab Control Sample Dup	109	100	103	100
LCSD 680-749450/6	Lab Control Sample Dup	114	86	110	96
LCSD 680-749480/6	Lab Control Sample Dup	108	99	105	99
MB 680-749434/9	Method Blank	100	112	118	92
MB 680-749445/9	Method Blank	107	86	101	102
MB 680-749450/9	Method Blank	124	79	112	100
MB 680-749480/9	Method Blank	104	84	96	102

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(32-113)	(26-109)	(32-118)	(27-110)	(10-126)	(39-124)
680-224226-1	MW-12A	51	39	47	38	62	53
680-224226-2	MW-16	63	43	57	44	74	70
680-224226-3	MW-15	64	46	57	47	83	70
680-224226-3 MS	MW-15	77	62	70	62	83	86
680-224226-3 MS	MW-15	81	53	70	56	88	96
680-224226-3 MSD	MW-15	77	59	68	59	85	86
680-224226-3 MSD	MW-15	82	58	76	62	89	89
680-224226-4	MW-20A	59	43	58	45	64	74
680-224226-5	MW-01B	83	67	75	66	91	81
680-224226-6	DUPLICATE	63	42	60	45	64	72
680-224226-7	MW-11A	62	47	56	46	78	63
LCS 680-748460/13-A	Lab Control Sample	84	63	74	63	91	84
LCS 680-748460/16-A	Lab Control Sample	91	59	82	62	98	96
MB 680-748460/12-A	Method Blank	68	50	59	47	88	61

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-224226-1	MW-12A	91	66
680-224226-5	MW-01B	82	68
680-224226-9	Purge water	10 S1-	61
LCS 680-754085/6-A	Lab Control Sample	15 p	64

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-224226-3	MW-15	86	66
680-224226-3 MS	MW-15	92	71
680-224226-3 MSD	MW-15	80	68
680-224226-6	DUPLICATE	44 p	69
680-224330-1	MW-16	87	67
680-224330-2	MW-11A	50 p	67 p
LCS 680-752803/10-A	Lab Control Sample	89	63
LCSD 680-754085/7-A	Lab Control Sample Dup	29	72
MB 680-752803/9-A	Method Blank	87	60
MB 680-754085/5-A	Method Blank	57	62

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX1
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-224226-4	MW-20A	11 p S1-	56

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: GSI Environmental, Inc
Job ID: 680-224226-1
Project/Site: Anniston RCRA Oct 2022

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
		TPP1						
Lab Sample ID	Client Sample ID	(60-154)						
680-224226-1	MW-12A	65						
680-224226-3	MW-15	63						
680-224226-3 MS	MW-15	74						
680-224226-3 MSD	MW-15	77						
680-224226-4	MW-20A	60						
680-224226-5	MW-01B	75						
680-224226-6	DUPLICATE	58 S1-						
680-224226-7	MW-11A	57 S1-						
680-224330-1	MW-16	101						
LCS 280-592157/2-A	Lab Control Sample	75						
LCS 280-592596/2-A	Lab Control Sample	73						
MB 280-592157/1-A	Method Blank	61						
MB 280-592596/1-A	Method Blank	65						

Surrogate Legend

TPP = Triphenylphosphate

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-749434/9
Matrix: Water
Analysis Batch: 749434

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			11/08/22 14:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/08/22 14:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*60 - 124*		*11/08/22 14:38*	*1*
Dibromofluoromethane (Surr)	*118*		*70 - 130*		*11/08/22 14:38*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*11/08/22 14:38*	*1*

Lab Sample ID: LCS 680-749434/5
Matrix: Water
Analysis Batch: 749434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorobenzene			50.0	51.5		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 680-749434/6
Matrix: Water
Analysis Batch: 749434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene			50.0	51.6		ug/L		103	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 680-224226-3 MS
Matrix: Water
Analysis Batch: 749434

Client Sample ID: MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorobenzene	<1.0		50.0	51.7		ug/L		103	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-224226-3 MSD
Matrix: Water
Analysis Batch: 749434

Client Sample ID: MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene	<1.0		50.0	51.3		ug/L		103	70 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 680-749445/9
Matrix: Water
Analysis Batch: 749445

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			11/08/22 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*70 - 130*		*11/08/22 14:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*11/08/22 14:41*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/08/22 14:41*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/08/22 14:41*	*1*

Lab Sample ID: LCS 680-749445/5
Matrix: Water
Analysis Batch: 749445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorobenzene			50.0	49.9		ug/L		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 680-749445/7
Matrix: Water
Analysis Batch: 749445

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene			50.0	49.8		ug/L		100	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*109*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-749450/9
Matrix: Water
Analysis Batch: 749450

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			11/08/22 13:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*124*		*70 - 130*		*11/08/22 13:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*60 - 124*		*11/08/22 13:55*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*11/08/22 13:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*11/08/22 13:55*	*1*

Lab Sample ID: LCS 680-749450/5
Matrix: Water
Analysis Batch: 749450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorobenzene			50.0	51.8		ug/L		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*114*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*
Dibromofluoromethane (Surr)	*110*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 680-749450/6
Matrix: Water
Analysis Batch: 749450

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene			50.0	52.8		ug/L		106	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*114*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*
Dibromofluoromethane (Surr)	*110*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 680-749480/9
Matrix: Water
Analysis Batch: 749480

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0	0.15	ug/L			11/08/22 14:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/08/22 14:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*11/08/22 14:31*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*11/08/22 14:31*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/08/22 14:31*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-749480/5
Matrix: Water
Analysis Batch: 749480

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorobenzene			50.0	50.6		ug/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-749480/6
Matrix: Water
Analysis Batch: 749480

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene			50.0	51.6		ug/L		103	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-748460/12-A
Matrix: Water
Analysis Batch: 749166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 748460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		11/02/22 20:50	11/06/22 18:01	1
o,o',o''-Triethylphosphorothioate	<10		10	1.0	ug/L		11/02/22 20:50	11/06/22 18:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*32 - 113*	*11/02/22 20:50*	*11/06/22 18:01*	*1*
2-Fluorophenol	*50*		*26 - 109*	*11/02/22 20:50*	*11/06/22 18:01*	*1*
Nitrobenzene-d5	*59*		*32 - 118*	*11/02/22 20:50*	*11/06/22 18:01*	*1*
Phenol-d5	*47*		*27 - 110*	*11/02/22 20:50*	*11/06/22 18:01*	*1*
Terphenyl-d14	*88*		*10 - 126*	*11/02/22 20:50*	*11/06/22 18:01*	*1*
2,4,6-Tribromophenol	*61*		*39 - 124*	*11/02/22 20:50*	*11/06/22 18:01*	*1*

Lab Sample ID: LCS 680-748460/13-A
Matrix: Water
Analysis Batch: 749166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 748460

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4-Nitrophenol			200	156		ug/L		78	44 - 130		

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-748460/13-A
Matrix: Water
Analysis Batch: 749166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 748460

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	84		32 - 113
2-Fluorophenol	63		26 - 109
Nitrobenzene-d5	74		32 - 118
Phenol-d5	63		27 - 110
Terphenyl-d14	91		10 - 126
2,4,6-Tribromophenol	84		39 - 124

Lab Sample ID: LCS 680-748460/16-A
Matrix: Water
Analysis Batch: 749166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 748460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o,o',o''-Triethylphosphorothioate	100	76.7		ug/L		77	23 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	91		32 - 113
2-Fluorophenol	59		26 - 109
Nitrobenzene-d5	82		32 - 118
Phenol-d5	62		27 - 110
Terphenyl-d14	98		10 - 126
2,4,6-Tribromophenol	96		39 - 124

Lab Sample ID: 680-224226-3 MS
Matrix: Water
Analysis Batch: 749166

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 748460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitrophenol	<25		194	146		ug/L		75	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	77		32 - 113
2-Fluorophenol	62		26 - 109
Nitrobenzene-d5	70		32 - 118
Phenol-d5	62		27 - 110
Terphenyl-d14	83		10 - 126
2,4,6-Tribromophenol	86		39 - 124

Lab Sample ID: 680-224226-3 MS
Matrix: Water
Analysis Batch: 749166

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 748460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o,o',o''-Triethylphosphorothioate	<10		99.2	71.0		ug/L		72	23 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	81		32 - 113
2-Fluorophenol	53		26 - 109

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-224226-3 MS
Matrix: Water
Analysis Batch: 749166

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 748460

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5	*70*		*32 - 118*
Phenol-d5	*56*		*27 - 110*
Terphenyl-d14	*88*		*10 - 126*
2,4,6-Tribromophenol	*96*		*39 - 124*

Lab Sample ID: 680-224226-3 MSD
Matrix: Water
Analysis Batch: 749166

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 748460

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitrophenol	<25		193	137		ug/L		71	44 - 130	6	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	*77*		*32 - 113*
2-Fluorophenol	*59*		*26 - 109*
Nitrobenzene-d5	*68*		*32 - 118*
Phenol-d5	*59*		*27 - 110*
Terphenyl-d14	*85*		*10 - 126*
2,4,6-Tribromophenol	*86*		*39 - 124*

Lab Sample ID: 680-224226-3 MSD
Matrix: Water
Analysis Batch: 749166

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 748460

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o,o',o''-Triethylphosphorothioate	<10		97.1	70.7		ug/L		73	23 - 130	0	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	*82*		*32 - 113*
2-Fluorophenol	*58*		*26 - 109*
Nitrobenzene-d5	*76*		*32 - 118*
Phenol-d5	*62*		*27 - 110*
Terphenyl-d14	*89*		*10 - 126*
2,4,6-Tribromophenol	*89*		*39 - 124*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-752803/9-A
Matrix: Water
Analysis Batch: 753197

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 752803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:05	1
PCB-1221	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:05	1
PCB-1232	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:05	1
PCB-1242	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:05	1
PCB-1248	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:05	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: MB 680-752803/9-A
Matrix: Water
Analysis Batch: 753197

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 752803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:05	1
PCB-1260	<0.50		0.50	0.060	ug/L		11/29/22 20:20	12/01/22 18:05	1
PCB-1268	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*14 - 130*	*11/29/22 20:20*	*12/01/22 18:05*	*1*
Tetrachloro-m-xylene	*60*		*40 - 130*	*11/29/22 20:20*	*12/01/22 18:05*	*1*

Lab Sample ID: LCS 680-752803/10-A
Matrix: Water
Analysis Batch: 753197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 752803

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			3.00	1.98		ug/L		66	44 - 130		
PCB-1260			3.00	2.62		ug/L		87	35 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*14 - 130*
Tetrachloro-m-xylene	*63*		*40 - 130*

Lab Sample ID: 680-224226-3 MS
Matrix: Water
Analysis Batch: 753197

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 752803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	<0.50		3.00	2.48		ug/L		82	44 - 130		
PCB-1260	<0.50		3.00	3.24		ug/L		108	35 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*92*		*14 - 130*
Tetrachloro-m-xylene	*71*		*40 - 130*

Lab Sample ID: 680-224226-3 MSD
Matrix: Water
Analysis Batch: 753197

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 752803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<0.50		3.02	2.52		ug/L		83	44 - 130	2	50
PCB-1260	<0.50		3.02	2.80		ug/L		93	35 - 130	15	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*80*		*14 - 130*
Tetrachloro-m-xylene	*68*		*40 - 130*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: MB 680-754085/5-A
Matrix: Water
Analysis Batch: 754249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 754085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:04	1
PCB-1221	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:04	1
PCB-1232	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:04	1
PCB-1242	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:04	1
PCB-1248	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:04	1
PCB-1254	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:04	1
PCB-1260	<0.50		0.50	0.060	ug/L		12/07/22 18:45	12/08/22 18:04	1
PCB-1268	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*14 - 130*	*12/07/22 18:45*	*12/08/22 18:04*	*1*
Tetrachloro-m-xylene	*62*		*40 - 130*	*12/07/22 18:45*	*12/08/22 18:04*	*1*

Lab Sample ID: LCS 680-754085/6-A
Matrix: Water
Analysis Batch: 754249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 754085

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			3.00	1.79		ug/L		60	44 - 130		
PCB-1260			3.00	2.83		ug/L		94	35 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*15*	*p*	*14 - 130*
Tetrachloro-m-xylene	*64*		*40 - 130*

Lab Sample ID: LCSD 680-754085/7-A
Matrix: Water
Analysis Batch: 754249

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 754085

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			3.00	1.89		ug/L		63	44 - 130	5	30
PCB-1260			3.00	2.93		ug/L		98	35 - 130	4	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*29*		*14 - 130*
Tetrachloro-m-xylene	*72*		*40 - 130*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-592157/1-A
Matrix: Water
Analysis Batch: 592380

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		11/02/22 15:44	11/04/22 14:27	1

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: MB 280-592157/1-A
Matrix: Water
Analysis Batch: 592380

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetraethyldithiopyrophosphate	<1.5		1.5	0.17	ug/L		11/02/22 15:44	11/04/22 14:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*61*		*60 - 154*	*11/02/22 15:44*	*11/04/22 14:27*	*1*

Lab Sample ID: LCS 280-592157/2-A
Matrix: Water
Analysis Batch: 592380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	4.00	3.09		ug/L		77	55 - 107
Tetraethyldithiopyrophosphate	4.00	3.12		ug/L		78	53 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*75*		*60 - 154*

Lab Sample ID: 680-224226-3 MS
Matrix: Water
Analysis Batch: 592380

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 592157

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	<1.0	H	3.81	2.73	H	ug/L		72	55 - 107
Tetraethyldithiopyrophosphate	<1.5	H	3.81	2.76	H	ug/L		73	53 - 110

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate	*74*		*60 - 154*

Lab Sample ID: 680-224226-3 MSD
Matrix: Water
Analysis Batch: 592380

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 592157

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Parathion	<1.0	H	3.94	3.05	H	ug/L		77	55 - 107	11	20
Tetraethyldithiopyrophosphate	<1.5	H	3.94	3.25	H	ug/L		82	53 - 110	16	27

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate	*77*		*60 - 154*

Lab Sample ID: MB 280-592596/1-A
Matrix: Water
Analysis Batch: 592829

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		11/07/22 16:33	11/09/22 19:59	1
Tetraethyldithiopyrophosphate	<1.5		1.5	0.17	ug/L		11/07/22 16:33	11/09/22 19:59	1

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: MB 280-592596/1-A
Matrix: Water
Analysis Batch: 592829

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592596

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	65		60 - 154	11/07/22 16:33	11/09/22 19:59	1

Lab Sample ID: LCS 280-592596/2-A
Matrix: Water
Analysis Batch: 592829

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	4.00	2.65		ug/L		66	55 - 107
Tetraethyldithiopyrophosphate	4.00	2.78		ug/L		69	53 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Triphenylphosphate	73		60 - 154

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 680-747835/1-A
Matrix: Water
Analysis Batch: 748082

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 747835

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.010		0.010	0.0014	mg/L		10/31/22 05:14	10/31/22 17:21	1

Lab Sample ID: LCS 680-747835/2-A
Matrix: Water
Analysis Batch: 748082

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 747835

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.0500	0.0494		mg/L		99	80 - 120

Lab Sample ID: 680-224226-3 MS
Matrix: Water
Analysis Batch: 748082

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 747835

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	<0.010		0.0500	0.0516		mg/L		103	75 - 125

Lab Sample ID: 680-224226-3 MSD
Matrix: Water
Analysis Batch: 748082

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 747835

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cobalt	<0.010		0.0500	0.0529		mg/L		106	75 - 125	3	20

GC/MS VOA

Analysis Batch: 749434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224226-3	MW-15	Total/NA	Water	8260D	
MB 680-749434/9	Method Blank	Total/NA	Water	8260D	
LCS 680-749434/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-749434/6	Lab Control Sample Dup	Total/NA	Water	8260D	
680-224226-3 MS	MW-15	Total/NA	Water	8260D	
680-224226-3 MSD	MW-15	Total/NA	Water	8260D	

Analysis Batch: 749445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224226-5	MW-01B	Total/NA	Water	8260D	
680-224226-6	DUPLICATE	Total/NA	Water	8260D	
MB 680-749445/9	Method Blank	Total/NA	Water	8260D	
LCS 680-749445/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-749445/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 749450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224226-8	Trip Blank20221026	Total/NA	Water	8260D	
MB 680-749450/9	Method Blank	Total/NA	Water	8260D	
LCS 680-749450/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-749450/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 749480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224226-2	MW-16	Total/NA	Water	8260D	
680-224226-4	MW-20A	Total/NA	Water	8260D	
MB 680-749480/9	Method Blank	Total/NA	Water	8260D	
LCS 680-749480/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-749480/6	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 748460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224226-1	MW-12A	Total/NA	Water	3520C	
680-224226-2	MW-16	Total/NA	Water	3520C	
680-224226-3	MW-15	Total/NA	Water	3520C	
680-224226-4	MW-20A	Total/NA	Water	3520C	
680-224226-5	MW-01B	Total/NA	Water	3520C	
680-224226-6	DUPLICATE	Total/NA	Water	3520C	
680-224226-7	MW-11A	Total/NA	Water	3520C	
MB 680-748460/12-A	Method Blank	Total/NA	Water	3520C	
LCS 680-748460/13-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-748460/16-A	Lab Control Sample	Total/NA	Water	3520C	
680-224226-3 MS	MW-15	Total/NA	Water	3520C	
680-224226-3 MS	MW-15	Total/NA	Water	3520C	
680-224226-3 MSD	MW-15	Total/NA	Water	3520C	
680-224226-3 MSD	MW-15	Total/NA	Water	3520C	

GC/MS Semi VOA

Analysis Batch: 749166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224226-1	MW-12A	Total/NA	Water	8270D	748460
680-224226-2	MW-16	Total/NA	Water	8270D	748460
680-224226-3	MW-15	Total/NA	Water	8270D	748460
680-224226-4	MW-20A	Total/NA	Water	8270D	748460
680-224226-5	MW-01B	Total/NA	Water	8270D	748460
680-224226-6	DUPLICATE	Total/NA	Water	8270D	748460
680-224226-7	MW-11A	Total/NA	Water	8270D	748460
MB 680-748460/12-A	Method Blank	Total/NA	Water	8270D	748460
LCS 680-748460/13-A	Lab Control Sample	Total/NA	Water	8270D	748460
LCS 680-748460/16-A	Lab Control Sample	Total/NA	Water	8270D	748460
680-224226-3 MS	MW-15	Total/NA	Water	8270D	748460
680-224226-3 MS	MW-15	Total/NA	Water	8270D	748460
680-224226-3 MSD	MW-15	Total/NA	Water	8270D	748460
680-224226-3 MSD	MW-15	Total/NA	Water	8270D	748460

GC Semi VOA

Prep Batch: 592157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224226-1	MW-12A	Total/NA	Water	3510C	
680-224226-3	MW-15	Total/NA	Water	3510C	
680-224226-4	MW-20A	Total/NA	Water	3510C	
680-224226-5	MW-01B	Total/NA	Water	3510C	
680-224226-6	DUPLICATE	Total/NA	Water	3510C	
680-224226-7	MW-11A	Total/NA	Water	3510C	
MB 280-592157/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-592157/2-A	Lab Control Sample	Total/NA	Water	3510C	
680-224226-3 MS	MW-15	Total/NA	Water	3510C	
680-224226-3 MSD	MW-15	Total/NA	Water	3510C	

Analysis Batch: 592380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224226-1	MW-12A	Total/NA	Water	8141B	592157
680-224226-3	MW-15	Total/NA	Water	8141B	592157
680-224226-4	MW-20A	Total/NA	Water	8141B	592157
680-224226-5	MW-01B	Total/NA	Water	8141B	592157
680-224226-6	DUPLICATE	Total/NA	Water	8141B	592157
680-224226-7	MW-11A	Total/NA	Water	8141B	592157
MB 280-592157/1-A	Method Blank	Total/NA	Water	8141B	592157
LCS 280-592157/2-A	Lab Control Sample	Total/NA	Water	8141B	592157
680-224226-3 MS	MW-15	Total/NA	Water	8141B	592157
680-224226-3 MSD	MW-15	Total/NA	Water	8141B	592157

Prep Batch: 592596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224330-1	MW-16	Total/NA	Water	3510C	
MB 280-592596/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-592596/2-A	Lab Control Sample	Total/NA	Water	3510C	

GC Semi VOA

Analysis Batch: 592829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224330-1	MW-16	Total/NA	Water	8141B	592596
MB 280-592596/1-A	Method Blank	Total/NA	Water	8141B	592596
LCS 280-592596/2-A	Lab Control Sample	Total/NA	Water	8141B	592596

Prep Batch: 752803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224226-1	MW-12A	Total/NA	Water	3520C	
680-224226-3	MW-15	Total/NA	Water	3520C	
680-224226-4	MW-20A	Total/NA	Water	3520C	
680-224226-5	MW-01B	Total/NA	Water	3520C	
680-224226-6	DUPLICATE	Total/NA	Water	3520C	
680-224226-9	Purge water	Total/NA	Water	3520C	
680-224330-2	MW-11A	Total/NA	Water	3520C	
MB 680-752803/9-A	Method Blank	Total/NA	Water	3520C	
LCS 680-752803/10-A	Lab Control Sample	Total/NA	Water	3520C	
680-224226-3 MS	MW-15	Total/NA	Water	3520C	
680-224226-3 MSD	MW-15	Total/NA	Water	3520C	

Analysis Batch: 753197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224226-1	MW-12A	Total/NA	Water	8081B/8082A	752803
680-224226-3	MW-15	Total/NA	Water	8081B/8082A	752803
680-224226-4	MW-20A	Total/NA	Water	8081B/8082A	752803
680-224226-5	MW-01B	Total/NA	Water	8081B/8082A	752803
680-224226-6	DUPLICATE	Total/NA	Water	8081B/8082A	752803
680-224226-9	Purge water	Total/NA	Water	8081B/8082A	752803
680-224330-2	MW-11A	Total/NA	Water	8081B/8082A	752803
MB 680-752803/9-A	Method Blank	Total/NA	Water	8081B/8082A	752803
LCS 680-752803/10-A	Lab Control Sample	Total/NA	Water	8081B/8082A	752803
680-224226-3 MS	MW-15	Total/NA	Water	8081B/8082A	752803
680-224226-3 MSD	MW-15	Total/NA	Water	8081B/8082A	752803

Prep Batch: 754085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224330-1	MW-16	Total/NA	Water	3520C	
MB 680-754085/5-A	Method Blank	Total/NA	Water	3520C	
LCS 680-754085/6-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-754085/7-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 754249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224330-1	MW-16	Total/NA	Water	8081B/8082A	754085
MB 680-754085/5-A	Method Blank	Total/NA	Water	8081B/8082A	754085
LCS 680-754085/6-A	Lab Control Sample	Total/NA	Water	8081B/8082A	754085
LCSD 680-754085/7-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	754085

Metals

Prep Batch: 747835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224226-2	MW-16	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 747835 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224226-3	MW-15	Total Recoverable	Water	3005A	
680-224226-4	MW-20A	Total Recoverable	Water	3005A	
680-224226-5	MW-01B	Total Recoverable	Water	3005A	
680-224226-6	DUPLICATE	Total Recoverable	Water	3005A	
MB 680-747835/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-747835/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-224226-3 MS	MW-15	Total Recoverable	Water	3005A	
680-224226-3 MSD	MW-15	Total Recoverable	Water	3005A	

Analysis Batch: 748082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224226-2	MW-16	Total Recoverable	Water	6010D	747835
680-224226-3	MW-15	Total Recoverable	Water	6010D	747835
680-224226-4	MW-20A	Total Recoverable	Water	6010D	747835
680-224226-5	MW-01B	Total Recoverable	Water	6010D	747835
680-224226-6	DUPLICATE	Total Recoverable	Water	6010D	747835
MB 680-747835/1-A	Method Blank	Total Recoverable	Water	6010D	747835
LCS 680-747835/2-A	Lab Control Sample	Total Recoverable	Water	6010D	747835
680-224226-3 MS	MW-15	Total Recoverable	Water	6010D	747835
680-224226-3 MSD	MW-15	Total Recoverable	Water	6010D	747835

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224226-1

Client Sample ID: MW-12A
Date Collected: 10/25/22 12:02
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1039.2 mL	1 mL	748460	11/02/22 20:50	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	749166	11/06/22 22:23	T1C	EET SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1020.4 mL	5 mL	752803	11/29/22 20:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	753197	12/01/22 18:33	JCK	EET SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1045.7 mL	2 mL	592157	11/02/22 15:44	KJZ	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	592380	11/04/22 15:45	SP	EET DEN
	Instrument ID: SGC_D									

Client Sample ID: MW-16
Date Collected: 10/25/22 13:50
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	749480	11/08/22 19:46	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3520C			1028.1 mL	1 mL	748460	11/02/22 20:50	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	749166	11/06/22 22:46	T1C	EET SAV
	Instrument ID: CMSG									
Total Recoverable	Prep	3005A			50 mL	50 mL	747835	10/31/22 05:14	RR	EET SAV
Total Recoverable	Analysis	6010D		1			748082	10/31/22 18:33	BJB	EET SAV
	Instrument ID: ICPH									

Client Sample ID: MW-15
Date Collected: 10/25/22 16:18
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	749434	11/08/22 15:15	P1C	EET SAV
	Instrument ID: CMSAG									
Total/NA	Prep	3520C			1009.5 mL	1 mL	748460	11/02/22 20:50	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	749166	11/06/22 23:10	T1C	EET SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1004.3 mL	5 mL	752803	11/29/22 20:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	753197	12/01/22 18:48	JCK	EET SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1012.3 mL	2 mL	592157	11/02/22 15:44	KJZ	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	592380	11/04/22 16:23	SP	EET DEN
	Instrument ID: SGC_D									
Total Recoverable	Prep	3005A			50 mL	50 mL	747835	10/31/22 05:14	RR	EET SAV
Total Recoverable	Analysis	6010D		1			748082	10/31/22 17:27	BJB	EET SAV
	Instrument ID: ICPH									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224226-1

Client Sample ID: MW-20A

Date Collected: 10/26/22 08:06
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	749480	11/08/22 20:10	Y1S	EET SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3520C			1036.4 mL	1 mL	748460	11/02/22 20:50	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	749166	11/06/22 23:34	T1C	EET SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1030.4 mL	5 mL	752803	11/29/22 20:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	753197	12/01/22 19:02	JCK	EET SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1035.5 mL	2 mL	592157	11/02/22 15:44	KJZ	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	592380	11/04/22 18:19	SP	EET DEN
	Instrument ID: SGC_D									
Total Recoverable	Prep	3005A			50 mL	50 mL	747835	10/31/22 05:14	RR	EET SAV
Total Recoverable	Analysis	6010D		1			748082	10/31/22 18:36	BJB	EET SAV
	Instrument ID: ICPH									

Client Sample ID: MW-01B

Date Collected: 10/25/22 08:29
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	749445	11/08/22 16:39	UI	EET SAV
	Instrument ID: CMSB									
Total/NA	Prep	3520C			994.7 mL	1 mL	748460	11/02/22 20:50	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	749166	11/06/22 23:58	T1C	EET SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			994.6 mL	5 mL	752803	11/29/22 20:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	753197	12/01/22 19:17	JCK	EET SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1026.9 mL	2 mL	592157	11/02/22 15:44	KJZ	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	592380	11/04/22 18:58	SP	EET DEN
	Instrument ID: SGC_D									
Total Recoverable	Prep	3005A			50 mL	50 mL	747835	10/31/22 05:14	RR	EET SAV
Total Recoverable	Analysis	6010D		1			748082	10/31/22 18:39	BJB	EET SAV
	Instrument ID: ICPH									

Client Sample ID: DUPLICATE

Date Collected: 10/26/22 00:00
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	749445	11/08/22 16:59	UI	EET SAV
	Instrument ID: CMSB									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224226-1

Client Sample ID: DUPLICATE
Date Collected: 10/26/22 00:00
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1041.6 mL	1 mL	748460	11/02/22 20:50	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	749166	11/07/22 00:22	T1C	EET SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1033.9 mL	5 mL	752803	11/29/22 20:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	753197	12/01/22 19:31	JCK	EET SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1043.1 mL	2 mL	592157	11/02/22 15:44	KJZ	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	592380	11/04/22 19:37	SP	EET DEN
	Instrument ID: SGC_D									
Total Recoverable	Prep	3005A			50 mL	50 mL	747835	10/31/22 05:14	RR	EET SAV
Total Recoverable	Analysis	6010D		1			748082	10/31/22 18:42	BJB	EET SAV
	Instrument ID: ICPH									

Client Sample ID: MW-11A
Date Collected: 10/26/22 11:49
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1028.2 mL	1 mL	748460	11/02/22 20:50	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	749166	11/07/22 00:46	T1C	EET SAV
	Instrument ID: CMSG									
Total/NA	Prep	3510C			1018.1 mL	2 mL	592157	11/02/22 15:44	KJZ	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	592380	11/04/22 20:15	SP	EET DEN
	Instrument ID: SGC_D									

Client Sample ID: Trip Blank20221026
Date Collected: 10/26/22 00:00
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	749450	11/08/22 15:36	Y1S	EET SAV
	Instrument ID: CMSC									

Client Sample ID: Purge water
Date Collected: 10/22/22 13:10
Date Received: 10/27/22 10:30

Lab Sample ID: 680-224226-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1025.6 mL	5 mL	752803	11/29/22 20:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	753197	12/01/22 19:45	JCK	EET SAV
	Instrument ID: CSGAA									

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224226-1

Client Sample ID: MW-16

Date Collected: 10/25/22 13:50
Date Received: 10/28/22 10:30

Lab Sample ID: 680-224330-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1013.3 mL	5 mL	754085	12/07/22 18:45	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	754249	12/08/22 19:03	JCK	EET SAV
	Instrument ID: CSGZ									
Total/NA	Prep	3510C			1024.2 mL	2 mL	592596	11/07/22 16:33	KAS	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	592829	11/10/22 02:25	SP	EET DEN
	Instrument ID: SGC_D									

Client Sample ID: MW-11A

Date Collected: 10/26/22 11:49
Date Received: 10/28/22 10:30

Lab Sample ID: 680-224330-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1026 mL	5 mL	752803	11/29/22 20:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	753197	12/01/22 20:14	JCK	EET SAV
	Instrument ID: CSGAA									

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224226-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-23

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	11-30-22
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-23
Connecticut	State	PH-0686	09-30-22 *
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	11-30-22
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-23
Oregon	NELAP	4025-011	01-09-23
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	10490	06-14-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-22
Wisconsin	State	999615430	08-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224226-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	EET SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	EET DEN
6010D	Metals (ICP)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV
5030C	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone. 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

244- ATLANTA

Eurofins Environment Testing America

Client Information	Sampler: JA, EGK	Lab PM: Savoie, Noel	Carrier Tracking No(s):	COC No: 680-139970-51101.2
Client Contact: Ben Smith	Phone: 713-522-6300	E-Mail: Noel.Savoie@et.eurofinsus.com	State of Origin:	Page: Page ~~2 of 2~~ 1 of 1
Company: GSI Environmental, Inc	PWSID:	Analysis Requested		Job #: 6122
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I Ice, J, K, L, M Hexane, N None, O AsNaO2, P Na2O4S, Q - Na2SO3, R Na2S2O3, S H2SO4, T - TSP Dodecahydrate, U Acetone
City: Houston	TAT Requested (days): Standard			
State, Zip: TX, 77098-4044	Compliance Project: Δ Yes Δ No			
Phone: 713-522-6300(Tel)	PO #: 49200681			
Email: WBSmith@gsi-net.com	WO #:			
Project Name: Anniston RCRA Oct 2022	Project #: 68018993			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8260D - Chlorobenzene	8270D - 1,2-DCB/1,4-DCB/4-NP/oxo-TEPP	8141B - Parathion/Sulfotepp	6010C - Cobalt	8081B_8082A - PCB	8270D - 4-NP/oxo-TEPP	8141B - Parathion	Total Number of containers
			Preservation Code:		X	A	N	N	D	N	N	N	X
~~MW-13A-R~~	~~10/25/22~~	1019	G	W						X	X	X	3
MW-12A		1202	G	W						X	X	X	3
MW-16		1350	G	W			X		X	X	X	X	10
MW-15		1618	G	W		X	X		X	X	X	X	10
~~MW-13A-RE~~	~~10/25/22~~	1019	G	W	X					X			2
MW-20A	10/26/22	806	G	W			X		X	X	X	X	10
MW-01B	10/25/22	829	G	W			X		X	X	X	X	10
DUPLICATE	10/26/22	—	G	W			X		X	X	X	X	10
MW-11A	10/26/22	1149	G	W						X	X	X	6
Tripblank20221026	10/26/22	—	—	—		X							2
PurgeWater	10/22/22	1310	G	W						X			2

680-224330 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested I, II, III, IV, Other (specify) Level II	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Jessica Alanis	Date/Time: 10/26/22 1500	Company: GSI	Received by:	Date/Time: 10/27 10:30	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10-28-22 1030	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 1-8 / 1-8 0.3 / 1.3

Ver: 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

244- ATLANTA

eurofins | Environment Testing America

Client Information	Sampler: JA, EGK	Lab PM: Savoie, Noel	Carrier Tracking No(s):	COC No: 680-139970-51101.2
Client Contact: Ben Smith	Phone: 713-522-6300	E-Mail: Noel.Savoie@et.eurofinsus.com	State of Origin:	Page: ~~Page 2 of 2~~ Page 1 of 1
Company: GSI Environmental, Inc	PWSID:			Job #: 6122
Address: 2211 Norfolk, Suite 1000	Due Date Requested:			
City: Houston	TAT Requested (days): standard			
State, Zip: TX, 77098-4044	Compliance Project: Δ Yes Δ No			
Phone: 713-522-6300(Tel)	PO #: 49200681			
Email: WBSmith@gsi-net.com	WO #:			
Project Name: Anniston RCRA Oct 2022	Project #: 68018993			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6260D - Chlorobenzene	8270D - 1,2-DCB,/1,4-DCB/4-NP/ooo-TEPP	8141B - Parathion/Sulfotepp	6010C - Cobalt	8081B_8082A - PCB	8270D - 4-NP/ooo-TEPP	8141B - Parathion	Total Number of containers
Preservation Code:							A	N	N	D	N	N	N	
~~MW-13A-R~~	~~10/25/22~~	1019	G	W							X	X	X	6
MW-12A		1202	G	W							X	X	X	6
MW-16		1350	G	W			X		X	X	X	X		10
MW-15		1618	G	W		X	X		X	X	X	X		30
~~MW-13A-RE~~		1019	G	W	X						X			2
MW-20A	10/26/22	806	G	W			X		X	X	X	X		10
MW-01B	10/25/22	829	G	W			X		X	X	X	X		10
DUPLICATE	10/26/22	—	G	W			X		X	X	X	X		10
MW-11A	10/26/22	1149	G	W							X	X	X	6
Tripblank20221026	10/26/22	—	—	—			X							2
Purge Water	10/22/22	1310	G	W							X			2

Spec

680-224226 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level II

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Jessica Alanis	10/26/22 1500	GSI		10/27 10:30	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.2/3.2 2.9/2.9 2.6/2.6 1.8/1.8 2.4/2.1 2.1/2.1 1.4/1.4

Ver: 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Savoie, Noel	Carrier Tracking No(s):	COC No: 680-714575.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Noel.Savoie@et.eurofinsus.com	State of Origin: Alabama	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Alabama		Job #: 680-224226-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 11/10/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Anniston RCRA Oct 2022	Project #: 68018993			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3510C Parathion	8141B/3510C Parathion/Sulfotepp	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-12A (680-224226-1)	10/26/22	12:02 Central		Water			X		2	
MW-15 (680-224226-3)	10/26/22	16:18 Central		Water				X	2	
MW-15 (680-224226-3MS)	10/26/22	16:18 Central	MS	Water				X	2	
MW-15 (680-224226-3MSD)	10/26/22	16:18 Central	MSD	Water				X	2	
MW-20A (680-224226-4)	10/26/22	08:06 Central		Water				X	2	
MW-01B (680-224226-5)	10/26/22	08:29 Central		Water				X	2	
DUPLICATE (680-224226-6)	10/26/22	Central		Water				X	2	
MW-11A (680-224226-7)	10/26/22	11:49 Central		Water			X		2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 10/31/22 1800	Company	Received by:	Date/Time: 11/1/22 0945	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.3, 0.6 IR12 CF0-1

Ver: 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Savoie, Noel	Carrier Tracking No(s):	COC No: 680-715334.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Noel.Savoie@et.eurofinsus.com	State of Origin: Alabama	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Alabama		Job #: 680-224226-1
Address: 4955 Yarrow Street,	Due Date Requested: 11/7/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Anniston RCRA Oct 2022	Project #: 68018993			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3510C Parathion/Sulfotepp	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-16 (680-224330-1)	10/25/22	13:50 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Reshma Lewis	11/3/22 5:47pm			11/4/22 1035	EA/DSN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 1886959 | Cooler Temperature(s) °C and Other Remarks: 0-4 IR12 CF 0-0

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-224226-1

Login Number: 224226
List Number: 1
Creator: Padayao, Abigail

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-224226-1

Login Number: 224226
List Number: 2
Creator: Naylis, Patrick J

List Source: Eurofins Denver
List Creation: 11/01/22 04:39 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-224226-1

Login Number: 224330
List Number: 1
Creator: Sims, Robert D

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-224226-1

Login Number: 224330
List Number: 2
Creator: Lee, Jerry

List Source: Eurofins Denver
List Creation: 11/04/22 07:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Company Name: GSI Environmental, Inc. Project Manager: Noel Savoie
Project Name: RCRA Groundwater Monitoring Project Number: 680-224286-1
Reviewer: Ben Smith Validation Date: 01/05/2023

Laboratory: Eurofins TestAmerica Savannah & Denver SDG #: 680-224286-1
Analytical Method (type and no.): SVOCS (8270D), PCBs (8081A/8082B), Pesticides (8141B)
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐ _____
Sample Names: MW-13A-R, MW-13A-RF

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?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	
f) Field QC noted?	☐	☐	☒	
g) Field parameters collected (note types)?	☒	☐	☐	Temp, pH, turbidity, sp. cond., DO, ORP
h) Field Calibration within control limits?	☒	☐	☐	
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☒	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☒	☐	The lab narrative notes that the internal standard (ISTD) response exceeded the control limit on the back column for the samples MW-13A-R (680-224286-1) and (MB 280-592157/1-A), but the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

Note Deficiencies: _____

Chain-of-Custody (COC)	**YES**	**NO**	**NA**	**COMMENTS**
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

General (reference QAPP or Method)	**YES**	**NO**	**NA**	**COMMENTS**
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☐	☒	☐	
g) Were any matrix problems noted?	☐	☒	☐	

QA LEVEL II - ORGANIC DATA EVALUATION CHECKLIST

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	☐	☒	☐	
b) Were analytes detected in the field blank(s)?	☐	☐	☒	
c) Were analytes detected in the equipment blank(s)?	☐	☐	☒	
d) Were analytes detected in the trip blank(s)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	☒	☐	☐	
b) Were the proper compounds included in the LCS?	☒	☐	☐	
c) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?				
	☐	☒	☐	
b) Were field dup. precision criteria met (note RPD)?	☐	☐	☒	
c) Were lab duplicates analyzed (note original and duplicate samples)?				Multiple LCSDs for 8270D and 8081B/8082A
	☒	☐	☐	
d) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	RPDs between 2-5%

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, compounds included and concentrations)?	☐	☒	☐	
b) Was the %D within control limits?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	☐	☐	☒	MS/MSD included in report 680-224226-1
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met?	☐	☐	☒	

Surrogate Spikes	YES	NO	NA	COMMENTS
a) Were surrogate recoveries within control limits?	☒	☐	☐	
b) Were surrogate recoveries not calculated due to dilutions?	☐	☒	☐	

Comments/Notes:

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason

Signature: Wade Benjamin Smith Date: 5 January 2023

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Smith
GSI Environmental, Inc
2211 Norfolk, Suite 1000
Houston, Texas 77098-4044

Generated 1/5/2023 9:31:51 AM Revision 4

JOB DESCRIPTION

Anniston RCRA Oct 2022

JOB NUMBER

680-224286-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Revision 4

Authorized for release by
Noel Savoie, Project Manager I
Noel.Savoie@et.eurofinsus.com
(850)254-0107

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Definitions/Glossary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224286-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 680-224286-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-224286-1

Revision
The report being provided is a revision of the original report sent on 11/15/2022. The report (revision 1) is being revised due to a revision to the case narrative.
The report being provided is a revision of the original report sent on 11/15/2022. The report (revision 2) is being revised due to method 8082 was originally prepped with method 3510 in error. Samples were reprepped with analytical method 8081/8082 and prep method 3520.
The report being provided is a revision of the original report sent on 11/15/2022. The report (revision 3) is being revised due to a revision to the case narrative.
The report being provided is a revision of the revised report sent on 12/16/2022. The report (revision 4) is being revised to remove the statement for 8082A (does not apply to prep 3520).

Receipt
The samples were received on 10/28/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8141B: Internal standard (ISTD) response for the following samples in preparation batch 280-592157 and analytical batch 280-592380 exceeded the control limit on the back column: MW-13A-R (680-224286-1), (MB 280-592157/1-A), (680-224226-A-3-A) and (680-224226-A-3-C MSD). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224286-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-224286-1	MW-13A-R	Water	10/26/22 17:11	10/28/22 10:30
680-224286-2	MW-13A-RF	Water	10/26/22 17:11	10/28/22 10:30

Detection Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224286-1

Client Sample ID: MW-13A-R — Lab Sample ID: 680-224286-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.57		0.50	0.088	ug/L	1		8081B/8082A	Total/NA

Client Sample ID: MW-13A-RF — Lab Sample ID: 680-224286-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-13A-R

Date Collected: 10/26/22 17:11
Date Received: 10/28/22 10:30

Lab Sample ID: 680-224286-1

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		11/01/22 21:20	11/08/22 01:37	1
o,o',o''-Triethylphosphorothioate	<10		10	0.98	ug/L		11/01/22 21:20	11/08/22 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*32 - 113*	*11/01/22 21:20*	*11/08/22 01:37*	*1*
2-Fluorophenol	*46*		*26 - 109*	*11/01/22 21:20*	*11/08/22 01:37*	*1*
Nitrobenzene-d5	*62*		*32 - 118*	*11/01/22 21:20*	*11/08/22 01:37*	*1*
Phenol-d5	*42*		*27 - 110*	*11/01/22 21:20*	*11/08/22 01:37*	*1*
Terphenyl-d14	*72*		*10 - 126*	*11/01/22 21:20*	*11/08/22 01:37*	*1*
2,4,6-Tribromophenol	*59*		*39 - 124*	*11/01/22 21:20*	*11/08/22 01:37*	*1*

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 20:00	1
PCB-1221	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 20:00	1
PCB-1232	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 20:00	1
PCB-1242	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 20:00	1
PCB-1248	**0.57**		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 20:00	1
PCB-1254	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 20:00	1
PCB-1260	<0.50		0.50	0.059	ug/L		11/29/22 20:20	12/01/22 20:00	1
PCB-1268	<0.50		0.50	0.088	ug/L		11/29/22 20:20	12/01/22 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*14 - 130*	*11/29/22 20:20*	*12/01/22 20:00*	*1*
Tetrachloro-m-xylene	*73*		*40 - 130*	*11/29/22 20:20*	*12/01/22 20:00*	*1*

Method: SW846 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		11/02/22 15:44	11/04/22 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*88*		*60 - 154*	*11/02/22 15:44*	*11/04/22 20:54*	*1*

Client Sample ID: MW-13A-RF

Date Collected: 10/26/22 17:11
Date Received: 10/28/22 10:30

Lab Sample ID: 680-224286-2

Matrix: Water

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:48	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:48	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:48	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:48	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:48	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:48	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		12/07/22 18:45	12/08/22 18:48	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*35*		*14 - 130*	*12/07/22 18:45*	*12/08/22 18:48*	*1*

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224286-1

Client Sample ID: MW-13A-RF
Date Collected: 10/26/22 17:11
Date Received: 10/28/22 10:30

Lab Sample ID: 680-224286-2
Matrix: Water

Method: SW846 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography - Dissolved (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		40 - 130	12/07/22 18:45	12/08/22 18:48	1

Surrogate Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224286-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(32-113)	(26-109)	(32-118)	(27-110)	(10-126)	(39-124)
680-224286-1	MW-13A-R	68	46	62	42	72	59
LCS 680-748216/6-A	Lab Control Sample	72	53	65	48	81	80
LCS 680-748216/8-A	Lab Control Sample	80	55	72	54	85	86
LCSD 680-748216/7-A	Lab Control Sample Dup	69	55	63	52	73	76
LCSD 680-748216/9-A	Lab Control Sample Dup	75	51	71	52	83	86
MB 680-748216/5-A	Method Blank	60	42	54	39	78	50

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
680-224286-1	MW-13A-R	81	73
LCS 680-754085/6-A	Lab Control Sample	15 p	64

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP2	TCX2
Lab Sample ID	Client Sample ID	(14-130)	(40-130)
LCS 680-752803/10-A	Lab Control Sample	89	63
LCSD 680-754085/7-A	Lab Control Sample Dup	29	72
MB 680-752803/9-A	Method Blank	87	60
MB 680-754085/5-A	Method Blank	57	62

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: GSI Environmental, Inc
Job ID: 680-224286-1
Project/Site: Anniston RCRA Oct 2022

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Matrix: Water **Prep Type: Dissolved**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCBP1 (14-130)	TCX2 (40-130)								
680-224286-2	MW-13A-RF	35	94								

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TPP1 (60-154)									
680-224286-1	MW-13A-R	88									
LCS 280-592157/2-A	Lab Control Sample	75									
MB 280-592157/1-A	Method Blank	61									

Surrogate Legend

TPP = Triphenylphosphate

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-748216/5-A
Matrix: Water
Analysis Batch: 749392

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 748216

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<25		25	1.9	ug/L		11/01/22 21:20	11/07/22 22:02	1
o,o',o''-Triethylphosphorothioate	<10		10	1.0	ug/L		11/01/22 21:20	11/07/22 22:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*32 - 113*	*11/01/22 21:20*	*11/07/22 22:02*	*1*
2-Fluorophenol	*42*		*26 - 109*	*11/01/22 21:20*	*11/07/22 22:02*	*1*
Nitrobenzene-d5	*54*		*32 - 118*	*11/01/22 21:20*	*11/07/22 22:02*	*1*
Phenol-d5	*39*		*27 - 110*	*11/01/22 21:20*	*11/07/22 22:02*	*1*
Terphenyl-d14	*78*		*10 - 126*	*11/01/22 21:20*	*11/07/22 22:02*	*1*
2,4,6-Tribromophenol	*50*		*39 - 124*	*11/01/22 21:20*	*11/07/22 22:02*	*1*

Lab Sample ID: LCS 680-748216/6-A
Matrix: Water
Analysis Batch: 749392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 748216

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
4-Nitrophenol			200	128		ug/L		64	44 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*72*		*32 - 113*
2-Fluorophenol	*53*		*26 - 109*
Nitrobenzene-d5	*65*		*32 - 118*
Phenol-d5	*48*		*27 - 110*
Terphenyl-d14	*81*		*10 - 126*
2,4,6-Tribromophenol	*80*		*39 - 124*

Lab Sample ID: LCS 680-748216/8-A
Matrix: Water
Analysis Batch: 749392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 748216

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o,o',o''-Triethylphosphorothioate			100	69.5		ug/L		69	23 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*80*		*32 - 113*
2-Fluorophenol	*55*		*26 - 109*
Nitrobenzene-d5	*72*		*32 - 118*
Phenol-d5	*54*		*27 - 110*
Terphenyl-d14	*85*		*10 - 126*
2,4,6-Tribromophenol	*86*		*39 - 124*

Lab Sample ID: LCSD 680-748216/7-A
Matrix: Water
Analysis Batch: 749392

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 748216

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitrophenol			200	124		ug/L		62	44 - 130	4	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-748216/7-A
Matrix: Water
Analysis Batch: 749392

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 748216

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*32 - 113*
2-Fluorophenol	*55*		*26 - 109*
Nitrobenzene-d5	*63*		*32 - 118*
Phenol-d5	*52*		*27 - 110*
Terphenyl-d14	*73*		*10 - 126*
2,4,6-Tribromophenol	*76*		*39 - 124*

Lab Sample ID: LCSD 680-748216/9-A
Matrix: Water
Analysis Batch: 749392

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 748216

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o,o',o''-Triethylphosphorothioate			100	70.9		ug/L		71	23 - 130	2	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*32 - 113*
2-Fluorophenol	*51*		*26 - 109*
Nitrobenzene-d5	*71*		*32 - 118*
Phenol-d5	*52*		*27 - 110*
Terphenyl-d14	*83*		*10 - 126*
2,4,6-Tribromophenol	*86*		*39 - 124*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-752803/9-A
Matrix: Water
Analysis Batch: 753197

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 752803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:05	1
PCB-1221	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:05	1
PCB-1232	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:05	1
PCB-1242	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:05	1
PCB-1248	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:05	1
PCB-1254	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:05	1
PCB-1260	<0.50		0.50	0.060	ug/L		11/29/22 20:20	12/01/22 18:05	1
PCB-1268	<0.50		0.50	0.090	ug/L		11/29/22 20:20	12/01/22 18:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*14 - 130*	*11/29/22 20:20*	*12/01/22 18:05*	*1*
Tetrachloro-m-xylene	*60*		*40 - 130*	*11/29/22 20:20*	*12/01/22 18:05*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-752803/10-A
Matrix: Water
Analysis Batch: 753197

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 752803

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			3.00	1.98		ug/L		66	44 - 130		
PCB-1260			3.00	2.62		ug/L		87	35 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*14 - 130*
Tetrachloro-m-xylene	*63*		*40 - 130*

Lab Sample ID: MB 680-754085/5-A
Matrix: Water
Analysis Batch: 754249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 754085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016, Dissolved	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:04	1
PCB-1221, Dissolved	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:04	1
PCB-1232, Dissolved	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:04	1
PCB-1242, Dissolved	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:04	1
PCB-1248, Dissolved	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:04	1
PCB-1254, Dissolved	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:04	1
PCB-1260, Dissolved	<0.50		0.50	0.060	ug/L		12/07/22 18:45	12/08/22 18:04	1
PCB-1268, Dissolved	<0.50		0.50	0.090	ug/L		12/07/22 18:45	12/08/22 18:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*14 - 130*	*12/07/22 18:45*	*12/08/22 18:04*	*1*
Tetrachloro-m-xylene	*62*		*40 - 130*	*12/07/22 18:45*	*12/08/22 18:04*	*1*

Lab Sample ID: LCS 680-754085/6-A
Matrix: Water
Analysis Batch: 754249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 754085

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016, Dissolved			3.00	1.79		ug/L		60	44 - 130		
PCB-1260, Dissolved			3.00	2.83		ug/L		94	35 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*15*	*p*	*14 - 130*
Tetrachloro-m-xylene	*64*		*40 - 130*

Lab Sample ID: LCSD 680-754085/7-A
Matrix: Water
Analysis Batch: 754249

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 754085

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016, Dissolved			3.00	1.89		ug/L		63	44 - 130	5	30
PCB-1260, Dissolved			3.00	2.93		ug/L		98	35 - 130	4	40

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCSD 680-754085/7-A
Matrix: Water
Analysis Batch: 754249

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 754085

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*29*		*14 - 130*
Tetrachloro-m-xylene	*72*		*40 - 130*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 280-592157/1-A
Matrix: Water
Analysis Batch: 592380

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	<1.0		1.0	0.14	ug/L		11/02/22 15:44	11/04/22 14:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*61*		*60 - 154*	*11/02/22 15:44*	*11/04/22 14:27*	*1*

Lab Sample ID: LCS 280-592157/2-A
Matrix: Water
Analysis Batch: 592380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	4.00	3.09		ug/L		77	55 - 107

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*75*		*60 - 154*

GC/MS Semi VOA

Prep Batch: 748216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224286-1	MW-13A-R	Total/NA	Water	3520C	
MB 680-748216/5-A	Method Blank	Total/NA	Water	3520C	
LCS 680-748216/6-A	Lab Control Sample	Total/NA	Water	3520C	
LCS 680-748216/8-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-748216/7-A	Lab Control Sample Dup	Total/NA	Water	3520C	
LCSD 680-748216/9-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 749392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224286-1	MW-13A-R	Total/NA	Water	8270D	748216
MB 680-748216/5-A	Method Blank	Total/NA	Water	8270D	748216
LCS 680-748216/6-A	Lab Control Sample	Total/NA	Water	8270D	748216
LCS 680-748216/8-A	Lab Control Sample	Total/NA	Water	8270D	748216
LCSD 680-748216/7-A	Lab Control Sample Dup	Total/NA	Water	8270D	748216
LCSD 680-748216/9-A	Lab Control Sample Dup	Total/NA	Water	8270D	748216

GC Semi VOA

Prep Batch: 592157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224286-1	MW-13A-R	Total/NA	Water	3510C	
MB 280-592157/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-592157/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 592380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224286-1	MW-13A-R	Total/NA	Water	8141B	592157
MB 280-592157/1-A	Method Blank	Total/NA	Water	8141B	592157
LCS 280-592157/2-A	Lab Control Sample	Total/NA	Water	8141B	592157

Prep Batch: 752803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224286-1	MW-13A-R	Total/NA	Water	3520C	
MB 680-752803/9-A	Method Blank	Total/NA	Water	3520C	
LCS 680-752803/10-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 753197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224286-1	MW-13A-R	Total/NA	Water	8081B/8082A	752803
MB 680-752803/9-A	Method Blank	Total/NA	Water	8081B/8082A	752803
LCS 680-752803/10-A	Lab Control Sample	Total/NA	Water	8081B/8082A	752803

Prep Batch: 754085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224286-2	MW-13A-RF	Dissolved	Water	3520C	
MB 680-754085/5-A	Method Blank	Total/NA	Water	3520C	
LCS 680-754085/6-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-754085/7-A	Lab Control Sample Dup	Total/NA	Water	3520C	

QC Association Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224286-1

GC Semi VOA

Analysis Batch: 754249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-224286-2	MW-13A-RF	Dissolved	Water	8081B/8082A	754085
MB 680-754085/5-A	Method Blank	Total/NA	Water	8081B/8082A	754085
LCS 680-754085/6-A	Lab Control Sample	Total/NA	Water	8081B/8082A	754085
LCSD 680-754085/7-A	Lab Control Sample Dup	Total/NA	Water	8081B/8082A	754085

Lab Chronicle

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224286-1

Client Sample ID: MW-13A-R

Lab Sample ID: 680-224286-1

Date Collected: 10/26/22 17:11

Matrix: Water

Date Received: 10/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1023 mL	1 mL	748216	11/01/22 21:20	IR	EET SAV
Total/NA	Analysis	8270D		1	1 mL	1 mL	749392	11/08/22 01:37	T1C	EET SAV
	Instrument ID: CMSG									
Total/NA	Prep	3520C			1017 mL	5 mL	752803	11/29/22 20:20	IR	EET SAV
Total/NA	Analysis	8081B/8082A		1	1 mL	1 mL	753197	12/01/22 20:00	JCK	EET SAV
	Instrument ID: CSGAA									
Total/NA	Prep	3510C			1049.8 mL	2 mL	592157	11/02/22 15:44	KJZ	EET DEN
Total/NA	Analysis	8141B		1	0.25 mL/100g	0.25 mL/100g	592380	11/04/22 20:54	SP	EET DEN
	Instrument ID: SGC_D									

Client Sample ID: MW-13A-RF

Lab Sample ID: 680-224286-2

Date Collected: 10/26/22 17:11

Matrix: Water

Date Received: 10/28/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3520C			997.9 mL	5 mL	754085	12/07/22 18:45	IR	EET SAV
Dissolved	Analysis	8081B/8082A		1	1 mL	1 mL	754249	12/08/22 18:48	JCK	EET SAV
	Instrument ID: CSGZ									

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224286-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	41450	06-30-23

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	11-30-22
A2LA	ISO/IEC 17025	2907.01	10-31-23
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	05-31-23
California	State	2513	01-08-23
Connecticut	State	PH-0686	09-30-22 *
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	11-30-22
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Louisiana (All)	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-23
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-23
Oregon	NELAP	4025-011	01-09-23
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	09-30-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-23
Virginia	NELAP	10490	06-14-23
Washington	State	C583-19	08-03-23
West Virginia DEP	State	354	11-30-22
Wisconsin	State	999615430	08-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: GSI Environmental, Inc
Project/Site: Anniston RCRA Oct 2022

Job ID: 680-224286-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	EET SAV
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	EET DEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
3520C	Liquid-Liquid Extraction (Continuous)	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone. 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: JA	Lab PM: ~~Weinberg, Amy~~ Savoie Noel	Carrier Tracking No(s):	COC No.: 680-134396-49183 10
Client Contact: ~~Mr. Jerry Hopper~~ Ben Smith	Phone: 713-522-6300	E-Mail: noel.savoie@et.eurofinsus.com ~~amy.weinberg@Eurofinset.com~~	State of Origin:	Page: Page ~~10 of 13~~ 1 of 1
Company: ~~Solutia Inc.~~ GSI Environmental, Inc.	PWSID:			Job #: 6122
Address: ~~702 Clydesdale Ave.~~ 2211 Norfolk, Suite 1000	Due Date Requested:			
City: ~~Anniston~~ Houston	TAT Requested (days): standard			
State, Zip: ~~AL, 36201-5328~~ TX, 77098-4044	Compliance Project: Δ Yes Δ No			
Phone: 713-522-6300(Tel)	PO #: 45008622			
Email: ~~johopp@eastman.com~~ WBSmith@gsi-net.com	WO #:			
Project Name: ~~April~~ Oct 2022 Anniston RCRA	Project #: 68018993			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B Chlorobenzene	8260B - 1,2,4 TCB/ Chlorobenzene	8270D - 1,2-DCB,/1,4-DCB/4-NP/ooo-TEPP	8270D - 4-NP/ooo-TEPP	8270D - 1,2-DCB,/1,4-DCB/4-NP/ooo-TEPP/2,4	8270D 1,2-DCB,/1,4-DCB/4-NP/ooo-TEPP/Ind	8081B_8082A PCB	8141B Parathion/Sulfotepp	8141B Parathion	6010C - Cobalt	6010C Cobalt/Manganese	7470A Total Hg	Total Number of containers	Special Instructions/Note.
			Preservation Code:				A	A	N	N	N	N	N	N	N	D	D	D		
MW-13A-R	10/26/22	1711	G	Water						X			X		X				6	
MW-13A-RF	10/26/22	1711	G	Water	X								X						2	
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																

Preservation Codes:
A - HCL, B NaOH, C Zn Acetate, D Nitric Acid, E - NaHSO4, F MeOH, G Amchlor, H - Ascorbic Acid, I Ice, J - DI Water, K - EDTA, L - EDA, M Hexane, N - None, O AsNaO2, P - Na2O4S, Q Na2SO3, R Na2S2O3, S - H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W - pH 4-5, Z other (specify)
Other:

680-224286 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed
☐ Return To Client ☒ Disposal By Lab

Deliverable Requested I II III IV Other (specify): Level II

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jessica Adams	10/27/22 425	GSI		10-28-22 1030	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 3.6/3.8

Ver: 06/08/2021

1/5/2023 (Rev. 4)

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Savoie, Noel	Carrier Tracking No(s):	COC No: 680-714536.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Noel.Savoie@et.eurofinsus.com	State of Origin: Alabama	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Alabama		Job #: 680-224286-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 11/9/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Anniston RCRA Oct 2022	Project #: 68018993			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3510C Parathion	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-13A-R (680-224286-1)	10/26/22	17:11 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/31/22 1600			11/1/22 0945	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.3 IR12 (FO.)

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-224286-1

Login Number: 224286
List Number: 1
Creator: Sims, Robert D

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: GSI Environmental, Inc

Job Number: 680-224286-1

Login Number: 224286
List Number: 2
Creator: Naylis, Patrick J

List Source: Eurofins Denver
List Creation: 11/01/22 04:33 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	