Long-term Stewardship Program

2022 Annual Monitoring Report

US Ecology Illinois, Inc.

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1 Summary

This Long-term Stewardship Program (LTSP) annual report provides a summary of the groundwater monitoring events and other site stewardship activities that took place in 2022 at US Ecology's closed Sheffield facility. This LTSP report represents a transition from work previously conducted under the 1985 Administrative Order by Consent (AOC) with the US Environmental Protection Agency (USEPA) and the Illinois Environmental Protection Agency (IEPA) post-closure permit, to the 2020 USEPA AOC for long-term site stewardship.

The 2022 analytical results indicated no migration of contaminants of concern (COCs) to boundary wells or Trout Lake. The results of groundwater samples collected within the known plume and downgradient areas indicate continued declines in concentrations over time, particularly in the last 5 to 10 years. Exceedances of Region 4 freshwater screening levels were limited to tetrachloroethene (PCE) in plume well G168; benzene, PCE and trichloroethene (TCE) in plume well G547 (fall only); cis-1,2-dichlorethene at plume well G564 (fall only); benzene at guard well G591; and PCE in guard well G600 (spring only).

2 Site Background

The US Ecology Sheffield site is a 46-acre permitted hazardous waste facility that operated from 1968 to 1983 (Figure 1, Vicinity Map). The facility includes two hazardous waste landfills referred to as the Old Chem Site and New Chem Site (Figure 2, Site Layout). A closed 20-acre, low-level radioactive waste (LLRW) facility owned and monitored by the state of Illinois is adjacent to the facility and lies within the property owned by US Ecology but is not considered as a part of this LTSP. During operations, the US Ecology facility accepted industrial, laboratory and agricultural hazardous wastes. Approximately 165,000 cubic yards (cy) of waste were reportedly disposed at the two landfills (93 percent at the New Chem Site). The Old Chem Site consists of six disposal trenches covering about 6 acres. The New Chem Site consists of 19 clay-lined burial cells covering approximately 40 acres.

2.1 Corrective Action

In 1985, the facility was subject to an AOC administered by the USEPA under the Resource Conservation and Recovery Act (RCRA). The AOC required (1) investigation of potential site releases that could adversely affect human or environmental health through exposure to hazardous contaminants (primarily volatile organic compounds [VOCs]); (2) evaluation of alternatives to address exposure pathways; and (3) implementation of corrective actions that would protect people and the environment.

Subsequent corrective actions included containment of remaining on-site waste, and groundwater extraction and treatment to address a contaminated groundwater plume in the shallow aquifer beneath the facility. To contain the waste, portions of the landfill were isolated by constructing subsurface barrier walls to divert groundwater away from the cells, followed by capping the landfill surface in 1994. After the initial source control

actions, additional groundwater remediation systems were installed in several phases including groundwater extraction and treatment, and in situ treatment by an air-sparging/soil vapor-extraction (AS/SVE) system. Various modifications were made to the remediation systems over the years to optimize performance. In 2006, an injection system was added around some of the AS/SVE wells to further degrade VOC compounds present in groundwater. In 2009, an AS/SVE system was installed to address ongoing regulatory exceedances in seeps along the north side of the landfill.

US Ecology applied for a post-closure permit with IEPA on October 24, 2008. IEPA and USEPA agreed that all future post-closure activities would be carried out under the 1985 USEPA AOC (January 21, 2010, correspondence from USEPA); however, IEPA issued a post-closure permit to US Ecology on March 18, 2010. The IEPA permit required preparation of a post-closure plan for the site and ongoing environmental monitoring for at least 30 years from the September 30, 1996, closure certification date. The IEPA permit also required the facility to follow the post-closure plan associated with the September 30, 1985, AOC between USEPA and US Ecology.

The post-closure groundwater and surface water monitoring program was approved by the USEPA on July 1, 2009, following inclusion of additional groundwater monitoring wells identified in USEPA's response-to-comments (RTC) document for the facility dated October 1990 (Figure 3 shows the groundwater monitoring wells sampled under the post-closure plan). This program has been conducted from 2009 to 2020 and forms the basis of the post-closure plan also required under the IEPA permit.

More than 25 years of groundwater monitoring data have been collected since the initial remedial systems were installed, with VOCs comprising the primary COCs. VOC concentrations have declined over time, demonstrating that natural attenuation is occurring, and leading to decommissioning of the on-site wastewater treatment plant in 2013. Other treatment systems were decommissioned as corrective action goals were achieved.

Investigations of site-specific geological conditions have shown the shallow, contaminated aquifer is sufficiently isolated from the deeper water-bearing zone, which provides regional drinking water. Site hydrogeology is well known with most of the shallow groundwater discharging to a local surface water feature (Trout Lake) formed by historical coal mining activity (see Section 3.2 below). Surface water monitoring results have shown the contaminated groundwater plume is not impacting Trout Lake, which serves as the point of compliance (POC) for the LTSP.

In 2019 and 2020, a conceptual site model (CSM) and LTSP were prepared at USEPA's request for the Sheffield facility to support USEPA decisions regarding long-term site management (GeoEngineers 2019; GeoEngineers 2020). Based on information presented in the CSM and LTSP, an AOC was filed by the USEPA that will govern the long-term care of the facility.

2.2 Long-term Stewardship Program

The Long-term Stewardship Plan (GeoEngineers 2020) incorporates environmental monitoring, inspection of engineering controls and certifying institutional controls to ensure continued performance and site integrity. The results of these activities are the basis for this report. Environmental monitoring is conducted to demonstrate the effectiveness of existing source controls and support site management decisions regarding performance. Inspections, maintenance, and minor repairs are performed to maintain site integrity. Deed restrictions have been filed with the county to ensure the continued land use associated with the landfill.

3 Site Geology and Hydrogeology

3.1 Geology

The facility is located on the northwestern margin of the Till Plains Section of the Central Lowlands physiographic province in Illinois. The Till Plains Section is composed of multiple Pleistocene epoch glacial ice sheet advances and retreats that scoured underlying bedrock and deposited till as terminal and ground moraines with subsequent outwash plains. Surficial geologic maps indicate Pleistocene aeolian silts and fine sand overlay clay, silt, and pebble till derived from ground moraines; outwash sands cap the local area. The loess and glacial deposits lie unconformably over shale and sandstone with thin coal seams and limestone beds.

Though that portion of the site occupied by the landfill area is generally undisturbed, much of the adjacent area had been surface mined for coal and backfilled with mine spoils in the 1940s and early 1950s. The approximately 23-acre Trout Lake originated as a surface mining pit. The mine spoils consist of intermixed glacial deposits and bedrock.

Site boring logs indicate loess, glacial till, glacial outwash sand and gravel, and lacustrine material underly the site. Fill material, derived from surface mining, as well as landfill capping material was also present.

3.2 Site Hydrogeology

Prior to area surface mining in the late 1920s and early 1930s, surface water at the site drained to the northeast through an unnamed tributary to Lawson Creek, which currently drains to the north. Upon conclusion of surface mining activity, the tributary drainage was captured by the pit that became Trout Lake. Additionally, ponds and lakes originating as surface mine pits currently receive groundwater discharge in the vicinity of the facility. Trout Lake is impounded by an earthen dam to the east that maintains the pool elevation at approximately 698 to 700 feet above mean sea level (MSL). The dam does not have a control gate and seasonal runoff can overtop the dam, with excess water discharging into a small ephemeral drainage and ultimately, either infiltrating to groundwater or into Lawson Creek.

Groundwater lies within three hydrogeologic systems in the area: (1) a deep principal regional aquifer, (2) a Pennsylvanian bedrock aquifer and (3) an uppermost unconfined

aquifer within unconsolidated glacial deposits. Groundwater flow beneath the facility is impacted by unconsolidated material heterogeneity, complex bedrock vertical joints and horizontal bedding planes, as well as irregular surface topography, and interference from engineered barriers and nearby surface water bodies.

Groundwater flow in the shallow unconfined aquifer is generally to the north-northeast and then east toward Trout Lake. However, subsurface barrier walls designed to isolate waste disposal trenches from groundwater flow-through were installed in the 1990s around the Old Chem Site and portions of the New Chem Site. The barrier walls were installed from roughly ground surface to bedrock. The barrier walls disrupt the north-northeasterly groundwater flow, diverting it to the east and northwest, creating a broad flattening of the groundwater gradient to the north of the landfill facility. The barrier walls do not affect local groundwater flow in the deep aquifer. Maps showing groundwater contours in the shallow and deep aquifers are presented in Figures 4 through 7.

4 Groundwater and Surface Water Chemical Monitoring and Evaluation Approach

Groundwater and surface water sampling protocols are outlined in the 2022 LTSP. The sampling locations and well type designations are described below.

Twelve wells (identified as boundary, guard, and plume wells) are sampled for the LTSP monitoring program along with two Trout Lake shoreline wells and two surface water sampling locations (Figure 8. Long-term Stewardship Plan Monitoring Locations). The groundwater and surface water sampling locations are discussed below:

- Boundary wells (G160 and G162) are situated downgradient of the Old Chem and New Chem landfill units to assess whether site-generated contamination is migrating towards the facility boundaries.

- Guard wells (G591, G592 and G600) are located to the east between the disposal cells and Trout Lake and are intended to provide an early warning of contaminant migration towards and possible impacts to the lake.

- Plume wells (G165, G166, G168, G547, G564, G575 and G594) are located within the historical path of the VOC plume. Analytical data are used to evaluate plume stability and concentration trends.

- The two shoreline wells (G211 and G570) are used to monitor groundwater-surface water (GSI) interactions downgradient of the guard wells.

- Two surface water sampling locations (S501 and S502) are near the shoreline in an area where groundwater from the site is likely to discharge to the lake (GeoEngineers 2020).

4.1 Monitoring Frequency

The wells are sampled in the spring and fall of each year. Fall 2020 represented the first sampling event under the LTSP; spring sampling was conducted under the post-closure permit and includes additional wells. Monitoring frequency in the LTSP array of wells may be reduced if contaminant concentrations continue to decline or remain stable.

Six additional wells from historical investigations will be monitored as part of a 5-year review cycle to assess the long-term effectiveness of the original corrective actions. These wells have historically had few, if any, COC criteria exceedances. The well locations were selected to be close to various source control structures and will be used to confirm the effectiveness of these source controls provided by the original corrective actions. The first 5-year cycle sampling event will be in 2025.

4.2 Data Evaluation

Analytical results for surface water and groundwater are compared to USEPA Region 4 surface water screening levels in this annual report (previous years were compared to screening levels required under the post-closure permit). Region 4 screening levels are provided in inset Table I below.

TABLE I. SURFACE WATER SCREENING LEVELS

Contaminant of Concern	Region 4 Surface Water Screening Values (µg/L)
Benzene	160
Chloroform	140
1,1-Dichloroethane	410
1,1-Dichloroethene	130
1,2-dichloroethane (EDC)	2,000
cis-1,2-Dichloroethene	620
trans-1,2-Dichloroethene	558
1,2-Dichloropropane	520
Methylene chloride (aka dichloromethane)	1,500
Tetrachloroethene (PCE)	53
Trichloroethene (TCE)	220
Vinyl chloride	930

Note:
µg/L = micrograms per liter

The surface water sampling locations in Trout Lake are the point of compliance for the site, such that an exceedance of a screening level would trigger additional investigation and potentially a corrective action, developed in coordination with the USEPA. Comparison of groundwater concentrations to screening levels provides an assessment of trends and the efficacy of source controls at the site. Additional investigation might

occur should trends in a well change significantly (i.e., indicate increasing concentrations where previously declining or stable). Table 1 (attached) presents the potential response actions, based on chemical results under the LTSP that could be implemented during the program.

5 Groundwater and Surface Water Monitoring Results

Results are presented and discussed by well type (guard, plume, etc.) or surface water sampling location in this section. Laboratory reports associated with the spring and fall 2022 monitoring are provided in Appendix A along with a summary of fall detected results (spring data were previously reported to the USEPA). Conventional parameters were measured at all wells sampled during a monitoring event; COCs were analyzed for selected wells sampled in the spring and in all well sampled in the fall. COC concentrations are compared to screening levels for surface water per the LTSP and any exceedances are identified. Trends in chemical concentrations are discussed for each well type and graphics displayed trends are provided in Appendix B. Groundwater flow and an assessment of gains or losses in the lake are presented in the attached Figures 4 through 7 and 9, respectively.

5.1 Ambient Condition Monitoring Results

The Ambient Condition Wells (G145, G186 and G434 provide data regarding inorganic concentrations in upgradient groundwater and establish guidelines for Illinois EPA's "Class IV-Other Groundwater" standards for other wells.

The baseline inorganic constituent concentrations established in the groundwater monitoring plan for the Ambient Condition Monitoring Wells are presented in inset Table II below. The unconsolidated upper aquifer ambient condition data represents the maximum concentrations measured in well G434 since the Post-closure monitoring began. The deep bedrock aquifer data represent the maximum concentrations measured in either G145 or G186 since the Post-closure monitoring began.

TABLE II. MAXIMUM CONCENTRATIONS OF CONVENTIONAL PARAMETERS IN AMBIENT WELLS

Constituent	Units	Shallow aquifer	Deep aquifer
Total Chlorides	mg/L	1.7	7.8
Total Sulfate	mg/L	23	1,600
Total Dissolved Solids	mg/L	360	3,000
Total Iron	mg/L	1,100	3,700
Total Manganese	mg/L	150	3,900

Note:
1. mg/l = milligrams per liter
2. mg/l = micrograms per liter

5.2 Boundary Well Monitoring Results

Two boundary wells (G-160 and G-162) were monitored in spring and fall 2022. Comparison with baseline conventional water quality concentrations show elevated total iron, total manganese, and TDS values. Total iron, total manganese and TDS concentrations are above their baselines up to a magnitude of one. Conventional water quality parameter concentrations in boundary wells are summarized in Table 2 (attached).

COC's were not detected in boundary well groundwater samples. Analytical data for boundary wells are summarized in Table 3 (attached).

Trends were not evaluated in boundary wells because COCs have not been detected historically. No additional evaluation is currently required.

5.3 Plume Well Monitoring Results

Seven plume wells were sampled in the 2022 sampling events. Plume monitoring wells G165, G166, and G168 are located north of the New Chem Site and upgradient of the Old Chem Site and Low-Level Radioactive Waste (LLRW) disposal site. (G547, G564, G575 and G594).

Elevated total iron up to a magnitude of one was reported in four eastern plume wells during the spring and fall monitoring events. Two of the three northern plume well total concentrations were within baseline values. Total manganese concentrations were slightly above baseline values in G564 for both spring and fall 2022; and were within baseline values in the remaining plume wells. TDS was greater than the baseline by up to a magnitude of one in six of the seven plume wells in both fall and spring 2022. TDS in G547 was below baseline concentrations during both sampling events. The attached Table 2 summarizes conventional parameter concentrations in the plume wells.

COCs were not detected in groundwater from wells G165 and G166 in either spring or fall. Well G168 had several detections of COCs in both the spring and fall; tetrachloroethene exceeded its screening level in both events by an approximate factor of 2 (concentrations were similar across both monitoring events).

COCs were detected in all four wells east of the Old Chem Site in both sampling events.

Well G564 was reported with a concentrations of cis-1,2-DCE in the spring and fall sampling events exceeding the screening level. Wells G547, G575 and G594 were reported with multiple analyte concentrations but the detected values were below USEPA Region 4 surface water screening levels (see attached Table 3 for a summary of analytical results for plume wells).

5.3.1 Plume Well Trend Analysis

COC results were initially graphed using Excel™ for those wells with a recent Region 4 screening level exceedance. Where the initial graphs suggested a trend, chemical concentrations were imported into USEPA's ProUCL (version 5.1) to determine the significance of that trend. The Trends Analysis module in ProUCL was used for this analysis. When there was insufficient evidence to determine the presence or significance of a trend (as determined by ProUCL), shorter time periods were evaluated (e.g., last 5 or 10 years).

In almost all cases, COCs continue to display significant declines in concentrations since 1999. A summary of the trends analysis is provided in Table 4 (attached). Line graphs are presented in Appendix B.1. Trend analysis graphs are included in Appendix B.2.

5.4 Guard Well Monitoring Results

Three guard wells (G591, G592 and G600) east of the Old Chem Site and within groundwater plume monitor conditions between the Site and Trout Lake were sampled in the spring and fall events.

Elevated total iron (up to 2 orders of magnitude of baseline values) was reported in G591 and G600 during the spring and fall monitoring events. The G592 well total iron concentrations were below baseline values. Total manganese concentrations were above baseline values in G591 and G600; and below baseline values in G592. TDS was greater than the baseline in three guard wells in both fall and spring 2022. Conventional water quality parameter results for guard wells are provided in attached Table 2.

COCs were detected in all three guard wells. Detected concentrations were reported below the USEPA Region 4 screening levels except benzene at G591 in spring; which was reported at the screening level (160 µg/L), and PCE in G600, which exceeded its criterion by a factor of about 2 in the spring. Both benzene and PCE dropped below the screening levels in the fall. Analytical results for guard wells are summarized in Table 3.

5.4.1 Guard Well Trend Analysis

In almost all cases, COCs with one or more historical exceedances of screening levels have displayed significant declines in concentrations since 1999. Exceptions included benzene in G591, cis-1,2-dichloroethene at G591 and G600, PCE at G592 and TCE at G600 where the initial evaluation suggested that there was insufficient evidence that a trend existed. However, when shorter (5 years) timeframes were evaluated, declining trends became significant for TCE and PCE. The presence and significance of trends for benzene at G591 indicate statistical evidence of a slight decreasing trend.

In almost all cases, COCs continue to display significant declines in concentrations since 1999. Review of the G591 line graph for benzene shows a small increase in March 2018/2019 and April 2021/2022 followed by a concentration decrease below the screening level, thus there is variability; however, the recent increase does not exceed the typical range. Benzene concentrations in hydrogeologically upgradient well G575

and adjacent wells G592 and G594 were not reported above the laboratory method detection limit, thus the concentration increase appears to be isolated to the G591 well. The well will continue to be monitored at scheduled intervals and no further evaluation is required at this time.

A summary of the trends analysis is provided in Table 4. Line graphs are presented for benzene in G591 and PCE in G600 Appendix B.1. Trend analysis graphs are included in Appendix B.2.

5.5 Groundwater-Surface Water Interaction Monitoring Results

Two shoreline wells (G211 and G570) downgradient of the plume were added in fall 2020 (Figure 8) to assess groundwater-surface water interactions (GSI).

Conventional parameters were dissimilar between the two GSI wells, with total and dissolved iron, dissolved sulfate and TDS concentrations being elevated in G570 relative to G211. Dissolved manganese concentrations in G211 and G570 were similar in value with respect to each other.

COCs were not detected in GSI well G211; two COCs (TCE [spring only] and cis-1,2-DCE [spring and fall]) were detected in groundwater from G570 at low concentrations well below the screening levels (Table 3).

Current data are not sufficient to evaluate trends in G211 and G570. The wells will continue to be monitored at scheduled intervals and no further evaluation is required.

5.6 Surface Water Monitoring Results

Surface water was sampled at S501 and S502 during the 2022 monitoring.

Conventional parameters were similar at both locations; no comparison was made to ambient groundwater conditions. Conventional parameter results are reported in Table 2. COCs were not detected at either surface water sample in 2022, which is consistent with historical data (analytical data are summarized in Table 3). The site continues to comply with the original post-closure permit and the 2020 AOC.

5.7 Groundwater Flow

5.7.1 Direction

The depth to groundwater was measured in each of the previously identified wells plus additional wells along the shoreline[1] to provide groundwater elevation data across the site. Groundwater elevations were calculated based on the top of well casing (TOC) surveyed elevations. Interpreting site groundwater flow direction is complex due to the

[1] Additional shoreline wells used to measure groundwater elevations included RIB-6, RIB-11, 572, 573, 574 and 212. See Figure 9 for locations.

geology, history of surface mining and associated site disturbances, and the installation of barrier walls around the Old Chem Site and along the southern edge of the New Chem Site. Generally, the unconsolidated glacial deposit upper aquifer flows from a hydrogeologic high centered around well G192 toward the northwest and northeast. The barrier walls surrounding the Old Chem Site appear to disrupt flow to the northeast. East of the Old Chem Site groundwater flows to the east-southeast. Groundwater in the deeper bedrock aquifer appears to flow toward a northeast-trending trough located beneath the New Chem site and does not appear to be affected by the barrier walls. Groundwater contours are presented in Figures 4 through 7. Groundwater sampling logs and elevation data are included in Appendix C.

5.7.2 Gain/Loss Assessment

To assess whether Trout Lake gains/intercepts groundwater or loses water into the surrounding sediments, eight established monitoring wells located along the shoreline were surveyed and added to the current monitoring well network for static water level measurements in the spring and fall (Figure 9, Shoreline Monitoring Well Locations for Fall 2022 Lake Gain/Loss Assessment). Water levels measured in the spring and fall of 2022 indicate that upland groundwater is discharging to the lake (i.e., the lake level is lower than the well groundwater elevations).

6 Inspections and Maintenance

A copy of the 2022 Routine Inspection and Maintenance Report is included in Appendix D.

6.1 Physical Inspections

Facility inspections performed in 2022 included assessing the physical integrity and condition of the vegetation landfill caps, containment/barrier walls, leachate collection system, stormwater drainage, and boundary fence and site access controls. Additionally, groundwater monitoring well monuments were also assessed. Engineering control deficiencies are noted in Exception Reports.

6.1.1 Landfill Cover and Stormwater Drainage

No deficiencies were reported.

Landfill cover vegetation, containment/barrier walls, slopes and stormwater runoff areas were in good condition. Mowing and trimming activities were performed twice during the year. A total of 39.80 inches of precipitation has been measured through December 2022. Stormwater drainage ditches and other ditches were clear, properly sloped and prepared to handle runoff.

6.1.2 Monitoring Wells and Fence Lines

No deficiencies were reported.

The Chem Site boundary fence was in good condition. Monitoring well monuments were in excellent condition and locked with security seals.

6.2 Annual Certification

U.S. Ecology affirms that the institutional controls and deed restrictions remain in place for the Sheffield facility, as required by the LTSP and the AOC.

6.3 Leachate Collection System and Management

No deficiencies were reported.

The leachate collection sumps were in good condition. A total of 3,271 gallons of leachate were collected between August and October 2022 (Appendix D). The leachate was stored on site prior to disposing at Veolia in Port Arthur, Texas in October 2022 PCB hazardous waste solids were stored on site prior to disposing at US Ecology Texas in October 2022. A copy of the disposal manifest is included in Appendix D.

7 Conclusions

The spring and fall 2022 analytical data indicate that site contamination remains within the existing on-site plume with no indication of contaminant migration outside the monitoring area.

COC concentrations in the Old Chem Site northwest plume area monitored by wells G165, G166, G167 and G168 have declined significantly from historical concentrations and only PCE exceeds its Region 4 screening level at one location (G168). There has been no indication of plume migration to the boundary wells, and it is likely that continued reduction of COCs will occur due to natural attenuation. US Ecology will continue monitoring these wells in accordance with the LTSP.

The Old Chem Site eastern plume area characterized by monitoring wells G547, G564, G575 and G594 indicates some COC variability. PCE concentrations in G168, and cis-1,2-DCE in G564 increased from previous monitoring events and may indicate continued chemical movement within the plume.

Concentrations of COCs in guard wells G591, G592 and G600 have declined from historically elevated concentrations. Though variable reported concentrations of benzene and PCE do not appear to exceed the typical range at this time.

Surface water quality in Trout Lake continues to comply with the terms of the post-closure permit and current LTSP and AOC.

8 References

GeoEngineers. 2019. Conceptual Site Model. Sheffield Former Hazardous Waste Facility, Sheffield, Illinois. July 2, 2019.

GeoEngineers. 2020. Long-term Stewardship Plan—Final. Sheffield Former Hazardous Waste Facility, Sheffield, Illinois. July 28, 2020.

US Ecology Illinois, Inc. 2020. Resource Conservation and Recovery Act. Administrative Order on Consent. Sheffield Facility, Bureau County, Sheffield, IL. September 22, 2020.

Table 1

Response Actions based on Chemical Monitoring Results

US Ecology Former Hazardous Waste Facility

Sheffield, Illinois

Long-Term Stewardship Program Element	Sampling/ Observation Point	Adverse Event	Trigger	Response
Chemical Monitoring				
Groundwater	Boundary well	Contaminated groundwater is migrating toward facility boundary	Groundwater COC concentrations exceed Region 4 surface water screening levels at one or more boundary wells	Evaluate short-term (5 year) COC concentration trends and variability in boundary well. If there appears to be a significant increase in concentration or variability exceeds the typical range, evaluate upgradient wells for similar trend along with any change in groundwater flow path. If exceedance is a function of a landfill source, evaluate integrity of source controls at landfill boundary (may include sampling historical wells); repair remedy element (cap, barrier wall) as needed. Continue monitoring according to scheduled interval.
	Plume well	Groundwater contamination trends change	Statistically significant increasing trend in COC concentration in plume detected	Evaluate guard well COC concentration trends. Continue monitoring at scheduled interval.
	Guard well	Contaminated groundwater is migrating toward lake	Groundwater COC concentrations exceed Region 4 surface water screening levels at one or more guard wells	Evaluate short-term (5 year) trend and variability in guard well. If there appears to be a significant increase in a COC concentration or variability exceeds the typical range, evaluate potential correlation with upgradient COC concentrations to determine potential source of increasing trend. Consider sampling additional historical wells to evaluate performance of upgradient barrier walls. Continue monitoring guard wells at scheduled interval.
Groundwater (continued)	GSI well	Groundwater at shoreline shows evidence of site-specific contamination	Site-specific COCs are detected in shoreline wells	Determine if Region 4 water quality screening levels are exceeded at GSI well. If yes, evaluate upgradient wells within the LTSP monitoring array to determine if there is correlative increase in COC concentrations and/or potential source of the increasing trend. Consider sampling additional historical wells. Consider evaluation of sediment porewater adjacent to the shoreline to determine if shoreline groundwater concentrations are attenuating prior to discharge to surface water (sediment-water interface). Consider an increase to monitoring frequency at GSI wells.
Surface water	Surface water points of compliance	Surface water becomes contaminated with site-specific contaminants of concern	Surface water COC concentrations exceed Region 4 surface water quality criteria	Resample points of compliance to confirm. If confirmed, evaluate groundwater concentrations in LTSP monitoring well array to determine likely source area. Consider sampling additional historical wells to evaluate distribution of contaminants near the POC. Determine the need for and type of corrective action needed based on likely risks to aquatic and water-dependent receptors. Consider an increase in monitoring frequency at POCs or locations within the lake.

Notes:

COC = contaminant of concern

GSI = groundwater-surface water interaction

POC = point of compliance

Table 2

Summary of the 2022 Groundwater and Surface Water Conventional Water Quality Parameter Monitoring Data for the Long-term Stewardship Program[1]

US Ecology Former Hazardous Waste Facility

Sheffield, Illinois

Monitoring Location and Type	Spring Event (April 2022)							Fall Event (September 2022)						
	Chloride-Dissolved	Iron- Total	Iron-Dissolved	Manganese - Total	Manganese-Dissolved	Total Dissolved Solids	Sulfate - Dissolved	Chloride-Dissolved	Iron-Total	Iron-Dissolved	Manganese-Total	Manganese-Dissolved	Total Dissolved Solids	Sulfate-Dissolved
Units	mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L
Surface Water														
S-501	5.5	37	27	44	47	1,700	910	5.9	72	51	290	300	1,700	940
S-502	5.7	55	39	53	51	1,600	890	5.9	59	32	430	420	1,600	970
Boundary Wells														
G-160	4.9	33,000	24,000	2,500	2,400	3,200	1,700	4.3	5,000	3,800	2,100	2,000	3,400	1,800
G-162	4.8	16,000	12,000	3,000	2,900	3,200	1,700	6.6	3,200	3,300	2,800	2,800	3,300	1,900
Guard Wells														
G-591	28	6,600	6,800	700	710	610	52	31	8,900	8,100	870	740	570	37
G-592	6.0	81	77	1.2	1.8	660	58	7.6	150	100	3.1	3.1	610	53
G-600	4.8	28,000	14,000	680	560	640	61	6.9	150,000	69,000	1,400	950	530	60
Plume Wells														
G-165	1.1	1,700	1,000	42	39	760	300	1.8	57	22	60	58	810	270
G-166	<5.0	24	18	18	17	580	3.4	3.0	29	21	22	20	520	1.7
G-168	<5.0	<10	<10	<1.0	<1.0	1,000	280	1.8	<10	<10	1.0	<1.0	1,100	290
G-547	7.8	1,500	1,100	32	29	280	3.6	5.0	1,200	870	9.5	8.0	160	5.0
G-564	7.5	11,000	12,000	390	390	1,600	510	5.4	12,000	11,000	400	380	1,700	570
G-575	7.0	9,600	7,800	83	84	650	54	6.9	8,500	6,400	42	33	630	47
G-594	20	3,500	1,100	49	24	530	25	21	2,900	1,800	63	30	540	29
GSI														
G-211	2.4	3,200	3,700	340	360	460	2.6	3.0	4,600	6,200	290	310	420	1.5
G-570	<5.0	7,300	8,000	360	350	1,900	74	5.5	11,000	12,000	180	180	1,900	710

Notes:

[1] This summary represents a transition from the monitoring program conducted under the 1985 Adminstrative Order by Consent (AOC) to the Long-term Stewardship Program conducted under the 2020 AOC with the U.S. Environmental Protection Agency (USEPA).

mg/L = milligrams per liter; µg/L = micrograms per liter

U = Not detected

Bold value = detected

Table 3

Summary of the 2022 Groundwater and Surface Water Monitoring Data for the Long-term Stewardship Program[1]

US Ecology Former Hazardous Waste Facility

Sheffield, Illinois

Contaminant of Concern[2]	Region 4 Screening Level	Units	Surface Water		Groundwater													Surface Water		Groundwater	
					Boundary Wells		Plume Wells							Guard Wells			GSI				
			S-501	S-502	G-160	G-162	G-165	G-166	G-168	G-547	G-564	G-575	G-594	G-591	G-592	G-600	G-211	G-570	Frequency of Detection	Frequency of Exceedance	Frequency of Detection	Frequency of Exceedance
Spring Sampling Event--April 26, 2022																					
1,1-Dichloroethane	410	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	**35**	**2.0**	**26**	**43**	<1	<1	<1	0%	0%	28%	0%
1,1-Dichloroethene	130	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0%	0%	15%	0%
1,2-Dichloroethane	2000	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1.4**	<1	<1	<1	<1	<1	0%	0%	7%	0%
1,2-Dichloropropane	520	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0%	0%	1%	0%
Benzene	160	µg/L	<1	<1	<1	<1	<1	<1	<1	**50**	<1	<1	<1	**160**	<1	<1	<1	<1	0%	0%	14%	0%
Chloroform	140	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1.7**	<1	<1.0	**1.5**	<1	<1	<1	0%	0%	14%	0%
cis-1,2-Dichloroethene	620	µg/L	<1	<1	<1	<1	<1	<1	<1	**38**	**730**	<1	**62**	**19**	**2.5**	**250**	<1	**2.8**	0%	0%	50%	7%
Methylene Chloride	1,500	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0%	0%	0%	0%
Tetrachloroethene	53	µg/L	<1	<1	<1	<1	<1	<1	**100**	**30**	<1	**8.3**	**2.3**	<1	**23**	**100**	<1	<1	0%	0%	42%	14%
trans-1,2-Dichloroethene	558	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0%	0%	0%	0%
Trichloroethene	220	µg/L	<1	<1	<1	<1	<1	<1	<1	**78**	<1	**1.5**	**4.0**	<1	**2.5**	**120**	<1	**1.4**	0%	0%	42%	0%
Vinyl Chloride	930	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	**58**	<1	**2.3**	**21**	<1	**16**	<1	<1	0%	0%	28%	0%
Fall Sampling Event--September 27, 2022																					
1,1-Dichloroethane	410	µg/L	<1	<1	<1	<1	<1	<1	<1	**1.4**	<1	**19**	**2.1**	**39**	**45**	**13**	<1	<1	0%	0%	42%	0%
1,1-Dichloroethene	130	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	**3.9**	<1	<1	<1	<1	<1	<1	<1	0%	0%	7%	0%
1,2-Dichloroethane	2000	µg/L	<1	<1	<1	<1	<1	<1	<1	**4.3**	**1.3**	<1	<1	**4**	<1	<1	<1	<1	0%	0%	21%	0%
1,2-Dichloropropane	520	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**10**	<1	<1	<1	<1	0%	0%	7%	0%
Benzene	160	µg/L	<1	<1	<1	<1	<1	<1	<1	**60**	**8.5**	<1	<1	**120**	<1	<1	<1	<1	0%	0%	21%	0%
Chloroform	140	µg/L	<1	<1	<1	<1	<1	<1	**3.9**	<1	<1	**1.1**	<1	<1	**1.8**	<1	<1	<1	0%	0%	21%	0%
cis-1,2-Dichloroethene	620	µg/L	<1	<1	<1	<1	<1	<1	<1	**72**	**1100**	**1.1**	**44**	**10**	**3.2**	**210**	<1	**3.3**	0%	0%	57%	7%
Methylene Chloride	1,500	µg/L	<1	<1	<1	<1	<1	<1	<1	**6.4**	<1	<1	<1	<1	<1	<1	<1	<1	0%	0%	7%	0%
Tetrachloroethene	53	µg/L	<1	<1	<1	<1	<1	<1	**110**	**35**	**9**	**3.1**	**2.3**	**1.4**	**24**	**23**	<1	<1	0%	0%	57%	7%
trans-1,2-Dichloroethene	558	µg/L	<1	<1	<1	<1	<1	<1	<1	**8.3**	**13**	<1	<1	<1	<1	**2.4**	<1	<1	0%	0%	21%	0%
Trichloroethene	220	µg/L	<1	<1	<1	<1	<1	<1	**6.4**	**210**	**2.5**	**1.6**	**4.0**	**2.1**	**3.8**	**59**	<1	<1	0%	0%	57%	0%
Vinyl Chloride	930	µg/L	<1	<1	<1	<1	<1	<1	<1	**15**	**89**	**1.6**	<1	**6.4**	**3.1**	**21**	<1	<1	0%	0%	42%	0%

Notes:

[1] This summary represents a transition from the monitoring program conducted under the 1985 Adminstrative Order by Consent (AOC) to the Long-term Stewardship Program conducted under the 2020 AOC with the U.S. Environmental Protection Agency (USEPA).

[2] Several other contaminants (1,4-dioxane, chloromethane, methacrynitrile and vinyl acetate) were analyzed for during the Spring 2020 monitoring event but were not detected. These contaminants were not identified as COCs based on a site-wide analysis.

µg/L = micrograms per liter

"<" = Not detected

Bold value = detected

Shaded value exceeds US EPA Region 4 surface water screening value for hazardous waste sites (USEPA 2018)

Table 4

Summary of the 2022 Groundwater Trends for the Long-term Stewardship Program[1]

US Ecology Former Hazardous Waste Facility

Sheffield, Illinois

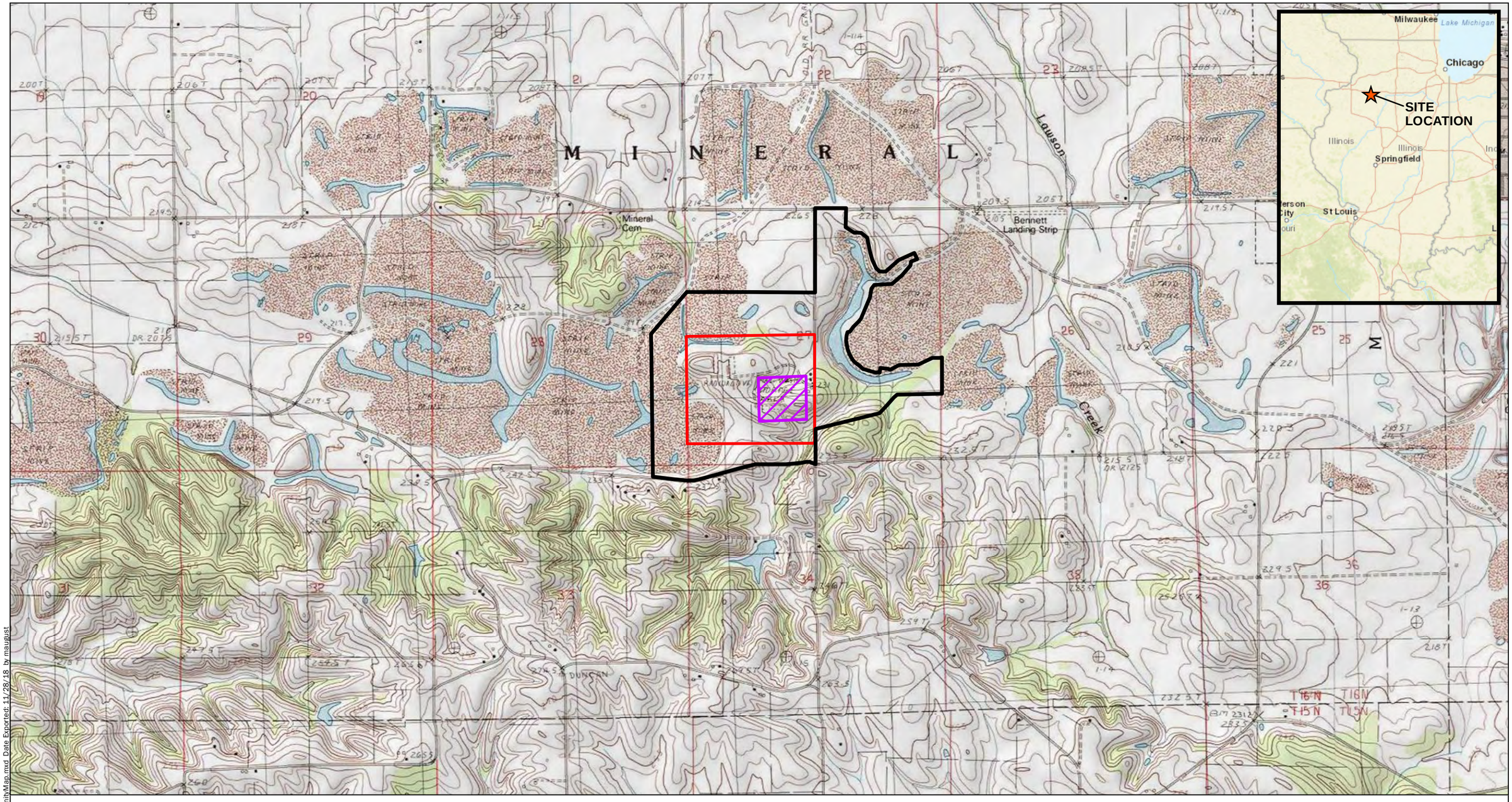
Contaminant of Concern	Boundary		Plume Wells							Guard Wells			GSI Wells	
	G-160	G-162	G-165	G-166	G-168	G-547	G-564	G-575	G-594	G-591	G-592	G-600	G-211	G-570
1,1-Dichloroethane	Not detected		Not detected or below screening level since 1999										Not detected	
1,1-Dichloroethene	Not detected		Not detected or below screening level since 1999										Not detected	
1,2-Dichloroethane	Not detected		Not detected or below screening level since 1999										Not detected	
1,2-Dichloropropane	Not detected		Not detected or below screening level since 1999										Not detected	
Benzene	Not detected		Not detected or below screening level since 1999			↓ Screening level exceedance in 2021	↓	Not detected since 1999	Not detected or below screening level since 2002	Statistical evidence of slight decreasing trend	Not detected since 2003	Not detected since 2002	Not detected	
Chloroform	Not detected		Not detected or below screening level since 1999		↓	Not detected or below the screening level since 2001	Not detected or below the screening level since 2002	Not detected or below screening level since 1999	Not detected or below screening level since 2002	Not detected or below the screening level since 2003	Not detected or below the screening level since 2003	Not detected or below screening level since 1999	Not detected	
cis-1,2-Dichloroethene	Not detected		↓ Not detected or below screening level since 2009	Not detected since 1999	Not detected or below the screening level since 1999	↓	Statistically decreasing, ↔ (last 6 years)	Not detected or below screening levels since 1999	Statistically decreasing, ↔ (last 2 years)	Insufficient evidence of decreasing trend	Not detected or below screening level since 1999	Insufficient evidence of decreasing trend	Not detected	Detected below the screening level
Methylene Chloride	Not detected		Not detected or below screening level since 1999			↓	Not detected or below screening level since 1999			Not detected or below screening level since 2002	Not detected or below screening level since 1999		Not detected	
Tetrachloroethene	Not detected		Not detected since 1999	Not detected since 1999	↓	↓	↓	↓	Insufficient evidence of decreasing trend	Not detected or below the screening level since 2002	Insufficient evidence of decreasing trend	↓	Not detected	
trans-1,2-Dichloroethene	Not detected		Not detected or below screening level since 1999										Not detected	
Trichloroethene	Not detected		Not detected since 2000	Not detected since 1999	↓	↓	↓	Not detected or below screening level since 1999	↓ (last 15 years)	↓ Below screening level since 2011	Not detected or below screening level since 1999	↓ (last 5 years)	Not detected	Detected below the screening level
Vinyl Chloride	Not detected		Not detected or below screening level since 1999				Below screening levels since 2007, Insufficient evidence of decreasing trend	Not detected or below screening level since 1999		Not detected or below screening level since 2006, Insufficient evidence of decreasing trend	Not detected or below screening level since 1999		Not detected	

Notes:

[1] This summary represents a transition from the monitoring program conducted under the 1985 Adminstrative Order by Consent (AOC) to the Long-term Stewardship Program conducted under the 2020 AOC with the U.S. Environmental Protection Agency (USEPA).

↓ Statistically significantly decreasing trend since 1999 or as indicated.

GSI wells = groundwater-surface water interaction wells



Notes:
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source:

Projection: NAD 1983 StatePlane Illinois West FIPS 1202 Feet

Legend

- U.S. Ecology Sheffield Property Line
- Facility Legal Boundary
- Property Owned by State of Illinois

N W E S

2,000 0 2,000

Feet

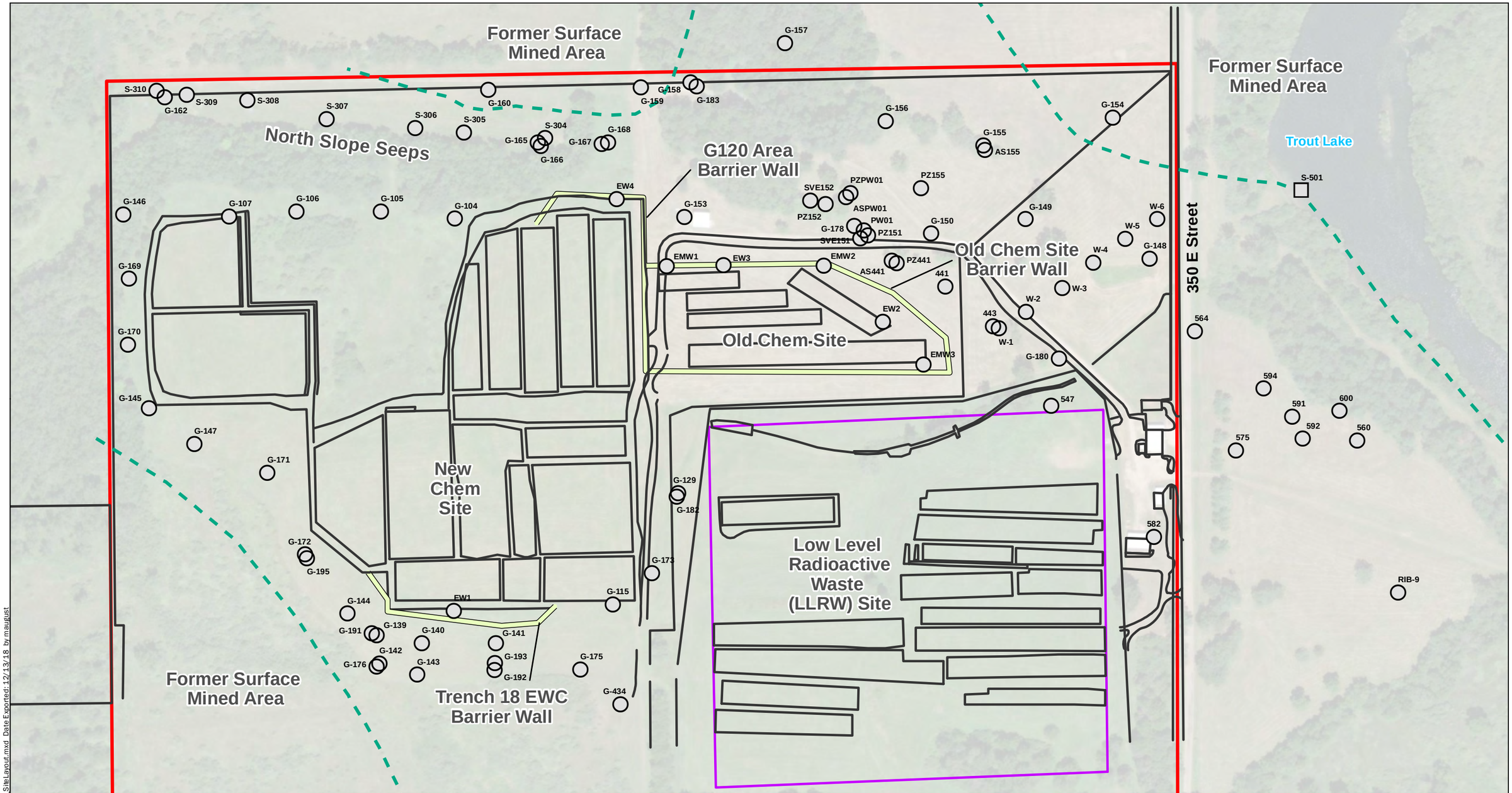
Vicinity Map

US Ecology Former Hazardous Waste Facility
Sheffield, Illinois

GeoEngineers

Figure 1

P:\19\19730002\GIS\MXD\19730200_VicinityMap.mxd Date Exported: 11/28/18 by maugust



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Data Source: PDC Technical Services, Inc., 2008.

Projection: NAD 1983 StatePlane Illinois West FIPS 1202 Feet

Legend

- Surface Water Sample Location
- Groundwater Monitoring Wells
- Facility Legal Boundary
- Property Owned by State of Illinois
- Barrier Walls
- Boundary of Former Surface Mining

N W E S

240 0 240

Feet

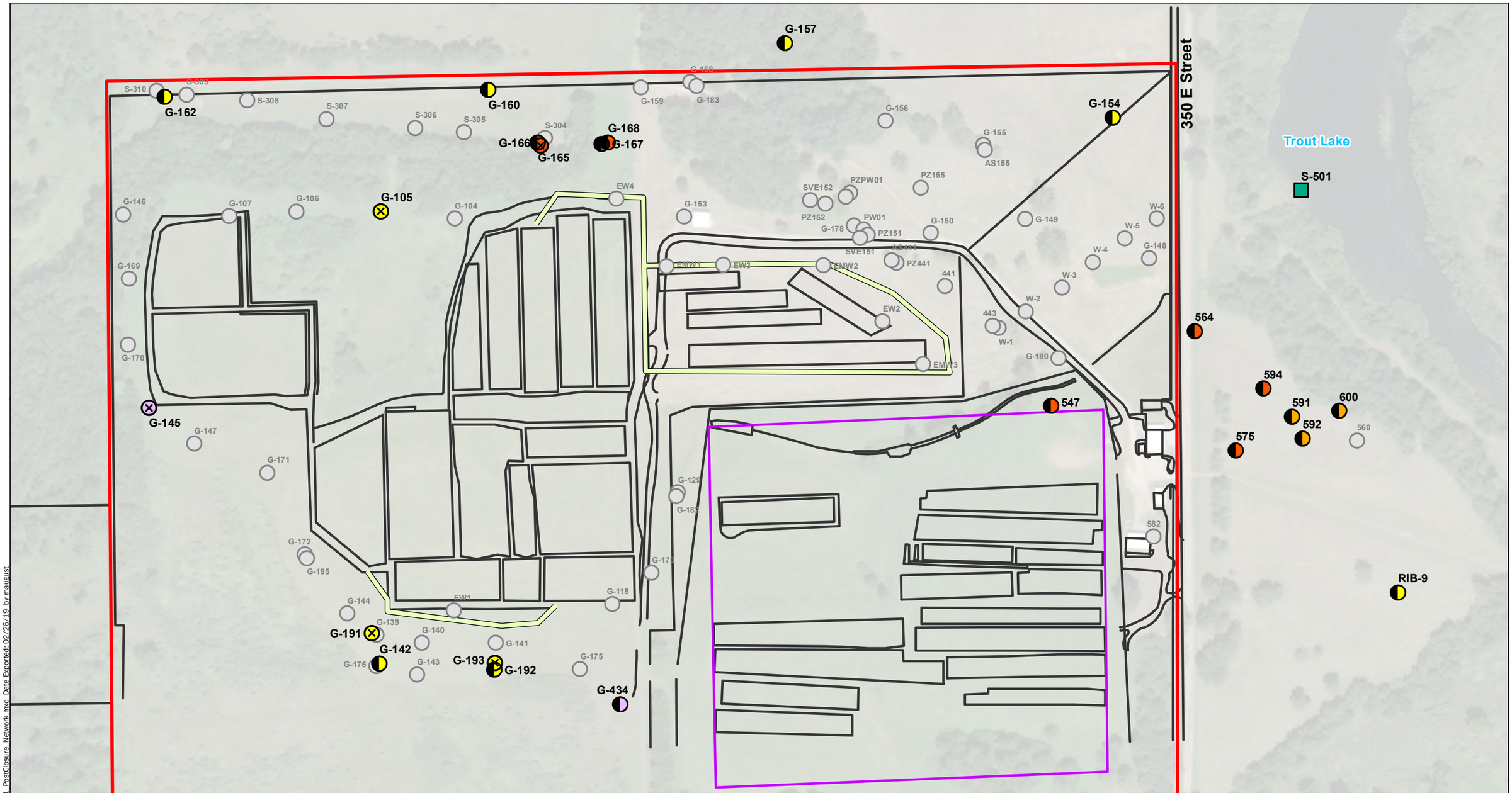
Site Layout

US Ecology Former Hazardous Waste Facility
Sheffield, Illinois

GeoEngineers

Figure 2

P:\19\19730002\GIS\MXD\19730002G00_Fig2_SiteLayout.mxd Date Exported: 12/13/18 by maugust



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Data Source: PDC Technical Services, Inc., 2008.

Projection: NAD 1983 StatePlane Illinois West FIPS 1202 Feet

Legend

- Boundary Well
- Plume Well
- Ambient Well
- Guard Well
- Surface Water Sample Location
- Other Wells
- Facility Legal Boundary
- Property Owned by State of Illinois
- Barrier Walls
- Screened in Glacial Deposits or Mine Spoils
- Screened in Pennsylvanian Bedrock

N W E S

240 0 240
Feet

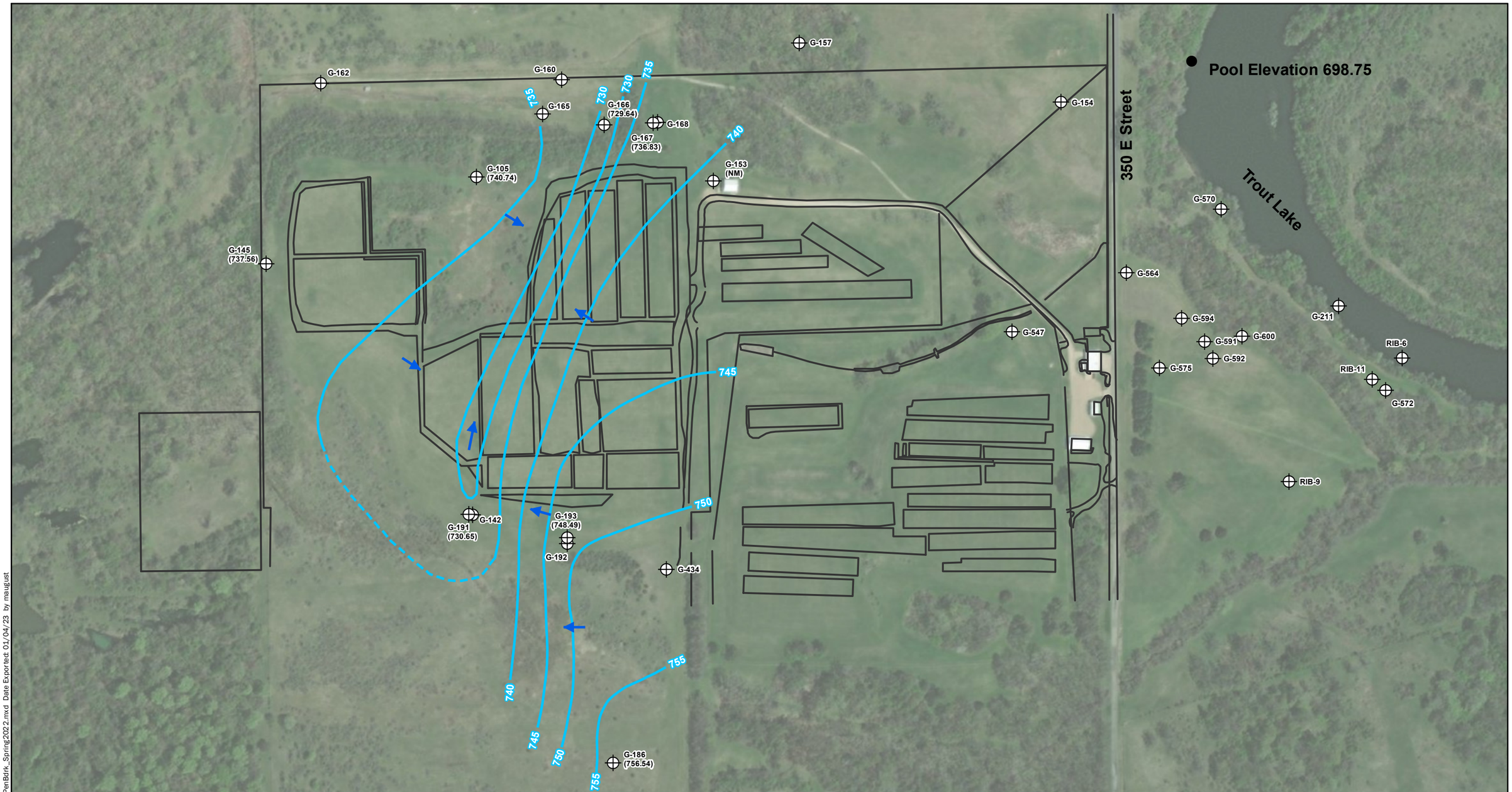
Post-Closure Groundwater Monitoring Network (2008-2020)

U.S. Ecology Illinois
Sheffield, Illinois

GeoEngineers

Figure 3

P:\19\19730002\GIS\MXD\19730002200_Fig11_PostClosure_Network.mxd Date Exported: 02/26/19 by maugust



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3. Potentiometric elevation data are in feet relative to sea level.

Data Source: Aerial from ESRI

Projection: NAD 1983 StatePlane Illinois West FIPS 1202 Feet

Legend

G-105 (737.63) — Approximate Monitoring Well Location, Designation, and Potentiometric Elevation[3]

Groundwater Elevation Contour (5-Foot Interval, Dashed where inferred)

Interpreted Groundwater Flow Direction

N W E S

300 0 300

Feet

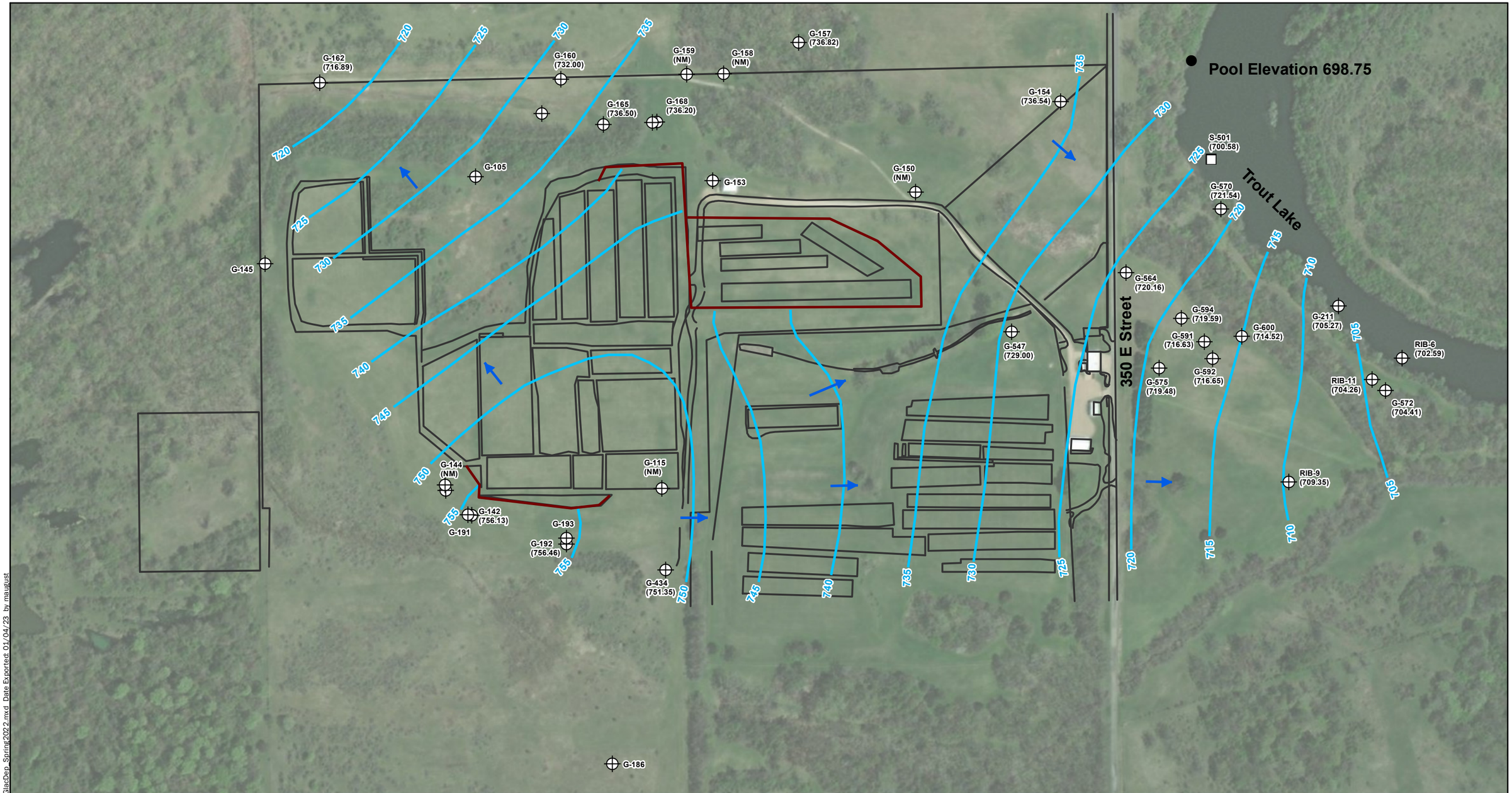
2022 Pennsylvanian Bedrock (Spring) Groundwater Contours

U.S. Ecology Illinois
Sheffield, Illinois

GeoEngineers

Figure 4

P:\19_\19730001\GIS\mxd\19730001 00_F04_PenBdrk_Spring2022.mxd Date Exported: 01/04/23 by maugust



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3. Potentiometric elevation data are in feet relative to sea level.

Data Source: Aerial from ESRI

Projection: NAD 1983 StatePlane Illinois West FIPS 1202 Feet

Legend

- G-142 (750.23) — Approximate Monitoring Well Location, Designation, and Potentiometric Elevation[3]
- Groundwater Elevation Contour (5-Foot Interval)
- Barrier Wall
- Interpreted Groundwater Flow Direction

N W E S

300 0 300

Feet

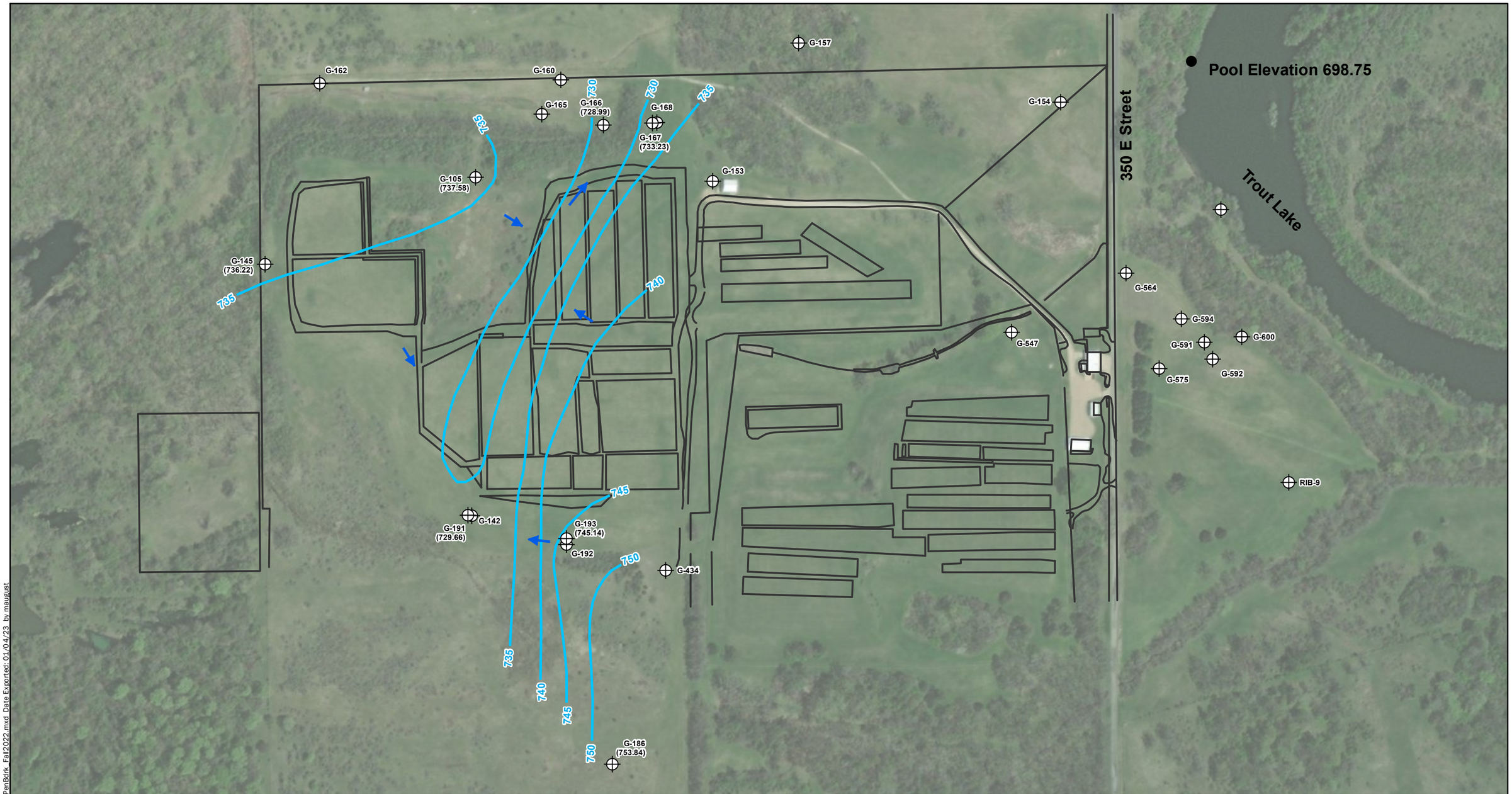
2022 Glacial Deposit (Spring) Groundwater Contours

U.S. Ecology Illinois
Sheffield, Illinois

GeoEngineers

Figure 5

P:\19_19730001\GIS\mxd\19730000100_F05_GlacDep_Spring2022.mxd Date Exported: 01/04/23 by maufust



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3. Potentiometric elevation data are in feet relative to sea level.

Data Source: Aerial from ESRI

Projection: NAD 1983 StatePlane Illinois West FIPS 1202 Feet

Legend

G-105 (737.34) — Approximate Monitoring Well Location, Designation, and Potentiometric Elevation[3]

Groundwater Elevation Contour (5-Foot Interval)

Interpreted Groundwater Flow Direction

N W E S

300 0 300

Feet

2022 Pennsylvanian Bedrock (Fall) Groundwater Contours

U.S. Ecology Illinois
Sheffield, Illinois

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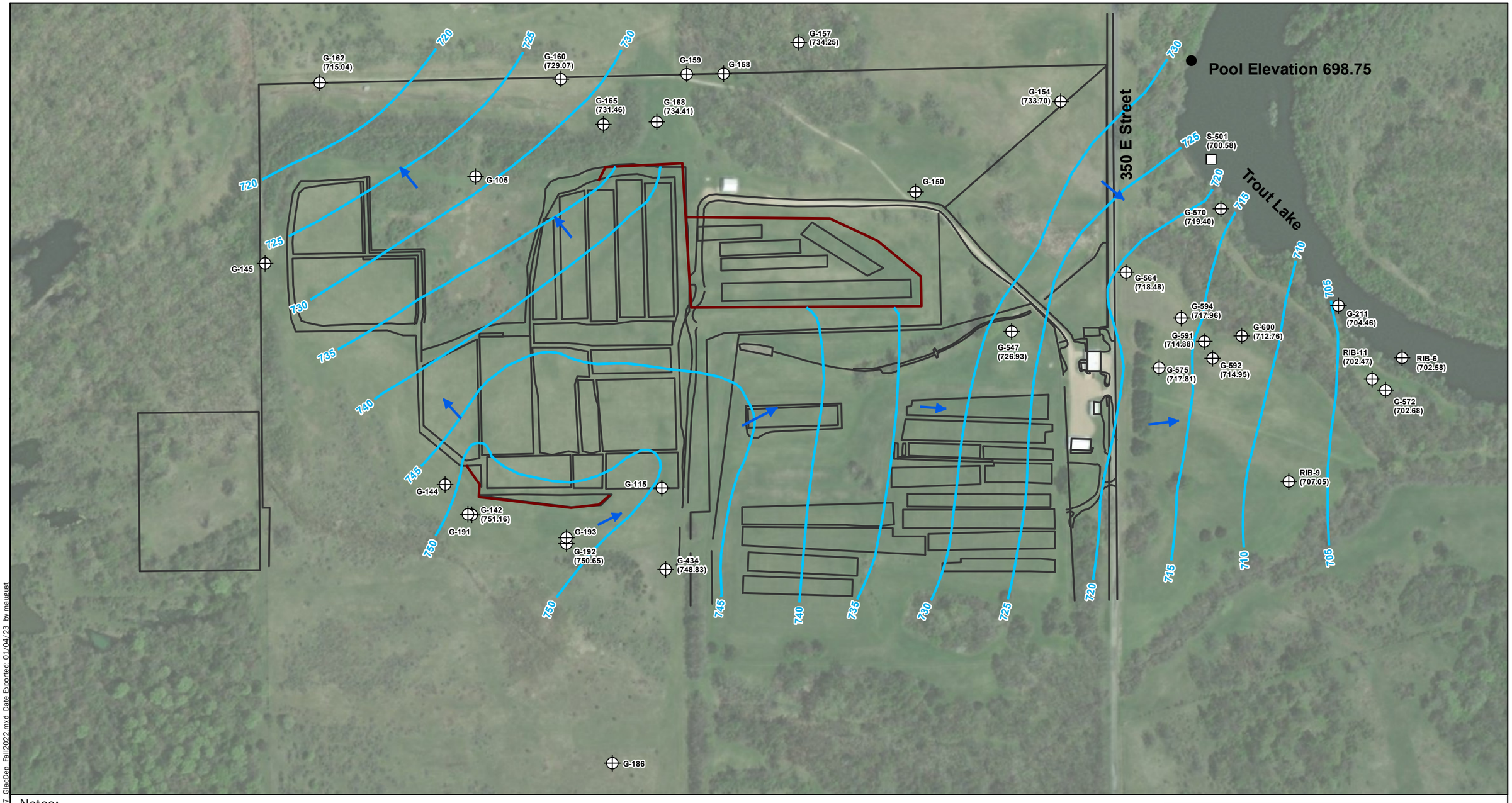
Figure 6

P:\19\19730001\GIS\mxd\19730001_F06_PenBdrk_Fall2022.mxd Date Exported: 01/04/23 by maurquist



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3. Potentiometric elevation data are in feet relative to sea level.

Data Source: Aerial from ESRI

Projection: NAD 1983 StatePlane Illinois West FIPS 1202 Feet

Legend

- G-142 (750.23) — Approximate Monitoring Well Location, Designation, and Potentiometric Elevation[3]
- Groundwater Elevation Contour (5-Foot Interval)
- Barrier Wall
- Interpreted Groundwater Flow Direction

N W E S

300 0 300

Feet

2022 Glacial Deposit (Fall) Groundwater Contours

U.S. Ecology Illinois
Sheffield, Illinois

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Figure 7

P:\19 19730001\GIS \mxd\19730000100_F07_GlacDep_Fall2022.mxd Date Exported: 01/04/23 by maugtest

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Data Source: PDC Technical Services, Inc., 2008.

Projection: NAD 1983 StatePlane Illinois West FIPS 1202 Feet

Legend

- Boundary Well
- Plume Well
- Guard Well
- 5-Year Review Well
- Groundwater-Surface Interaction Well
- Surface Water Sample Location
- Other Wells
- Facility Legal Boundary
- Property Owned by State of Illinois
- Barrier Walls
- Screened in Glacial Deposits or Mine Spoils
- Screened in Pennsylvanian Bedrock

* Sediment in well 571 dry. Replaced with well 570.

N W E S

300 0 300
Feet

Long-term Stewardship Plan Monitoring Locations

U.S. Ecology Illinois
Sheffield, Illinois

GeoEngineers

Figure 8

P:\19\19730002\GIS\MXD\19730002000_Fig2_LTStewardshipMonNetwork_05112020_new.mxd Date Exported: 05/14/20 by maugust

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3. Potentiometric elevation data are in feet.

Data Source: Aerial from ESRI

Projection: NAD 1983 StatePlane Illinois West FIPS 1202 Feet

Legend

- Water Level Measurement Well
- Surface Water Sample Location
- Earthen Dam Approximate Location

N W E S

200 0 200

Feet

Shoreline Monitoring Well Locations for Fall 2022 Lake Gain/Loss Assessment

U.S. Ecology Illinois
Sheffield, Illinois

GeoEngineers

Figure 9

P:\19\19730002\GIS\MXD\19730002_Fig9_2022_ShorelineGainLoss.mxd Date Exported: 01/04/23 by maurglust

APPENDIX A

Analytical Results

APPENDIX A.1

Laboratory Reports

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

May 12, 2022

Doug Long
US Ecology, Inc. Sheffield
PO Box 206
Sheffield, IL 61361

RE: US ECOLOGY LTSP

Dear Doug Long:

Please find enclosed the analytical results for the **19** sample(s) the laboratory received on **4/27/22 9:35 am** and logged in under work order **FD04622**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise . We are always trying to improve our customer service and we welcome you to contact the Director of Client Services, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Gail Schindler
Project Manager
(309) 692-9688 x1716
gail.schindler@pacelabs.com

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order FD04622

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

ANALYTICAL RESULTS

Sample: FD04622-01
Name: G160
Matrix: Ground Water - Grab

Sampled: 04/26/22 09:45
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	3300	mg/L		05/03/22 15:22	1	26	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	4.9	mg/L		05/02/22 20:41	1	1.0	05/02/22 20:41	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	1700	mg/L		05/02/22 20:59	250	250	05/02/22 20:59	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	3200	mg/L		05/02/22 09:40	1	26	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	24000	ug/L		04/27/22 06:14	5	10	04/29/22 11:50	JMW	EPA 6020A
Magnesium, Dissolved	280	mg/L		04/27/22 06:14	5	0.10	04/29/22 11:50	JMW	EPA 6020A
Manganese, Dissolved	2400	ug/L		04/27/22 06:14	5	1.0	04/29/22 11:50	JMW	EPA 6020A
Total Metals - PIA									
Iron	33000	ug/L		04/28/22 09:01	5	10	05/04/22 10:04	JMW	EPA 6020A
Magnesium	290	mg/L		04/28/22 09:01	5	0.10	05/04/22 10:04	JMW	EPA 6020A
Manganese	2500	ug/L		04/28/22 09:01	5	1.0	05/04/22 10:04	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 11:43	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 11:43	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 11:43	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 11:43	MTM	EPA 8260B
Benzene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 11:43	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 11:43	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 11:43	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 11:43	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 11:43	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 11:43	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 11:43	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 11:43	MTM	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-02
Name: G162
Matrix: Ground Water - Grab

Sampled: 04/26/22 09:32
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	3100	mg/L		05/03/22 15:22	1	26	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	4.8	mg/L		05/02/22 21:17	1	1.0	05/02/22 21:17	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	1700	mg/L		05/02/22 21:35	250	250	05/02/22 21:35	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	3200	mg/L		05/02/22 09:40	1	26	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	12000	ug/L		04/27/22 06:14	5	10	04/29/22 11:54	JMW	EPA 6020A
Magnesium, Dissolved	270	mg/L		04/27/22 06:14	5	0.10	04/29/22 11:54	JMW	EPA 6020A
Manganese, Dissolved	2900	ug/L		04/27/22 06:14	5	1.0	04/29/22 11:54	JMW	EPA 6020A
Total Metals - PIA									
Iron	16000	ug/L		04/28/22 09:01	5	10	05/04/22 10:08	JMW	EPA 6020A
Magnesium	280	mg/L		04/28/22 09:01	5	0.10	05/04/22 10:08	JMW	EPA 6020A
Manganese	3000	ug/L		04/28/22 09:01	5	1.0	05/04/22 10:08	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:11	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:11	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:11	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:11	MTM	EPA 8260B
Benzene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:11	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:11	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:11	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:11	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:11	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:11	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:11	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:11	MTM	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-03
Name: G165
Matrix: Ground Water - Grab

Sampled: 04/26/22 09:11
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	680	mg/L		05/03/22 15:22	1	26	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	1.1	mg/L		05/02/22 21:53	1	1.0	05/02/22 21:53	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	300	mg/L		05/02/22 22:11	50	50	05/02/22 22:11	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	760	mg/L		05/02/22 09:40	1	26	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	1000	ug/L		04/27/22 06:14	5	10	04/29/22 11:58	JMW	EPA 6020A
Magnesium, Dissolved	57	mg/L		04/27/22 06:14	5	0.10	04/29/22 11:58	JMW	EPA 6020A
Manganese, Dissolved	39	ug/L		04/27/22 06:14	5	1.0	04/29/22 11:58	JMW	EPA 6020A
Total Metals - PIA									
Iron	1700	ug/L		04/28/22 09:01	5	10	05/04/22 10:11	JMW	EPA 6020A
Magnesium	56	mg/L		04/28/22 09:01	5	0.10	05/04/22 10:11	JMW	EPA 6020A
Manganese	42	ug/L		04/28/22 09:01	5	1.0	05/04/22 10:11	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:39	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:39	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:39	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:39	MTM	EPA 8260B
Benzene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:39	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:39	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:39	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:39	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:39	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:39	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:39	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 12:39	MTM	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-04
Name: G166
Matrix: Ground Water - Grab

Sampled: 04/26/22 09:20
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	400	mg/L		05/03/22 15:22	1	26	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	< 5.0	mg/L		05/04/22 03:14	5	5.0	05/04/22 03:14	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	3.4	mg/L		05/02/22 22:29	1	1.0	05/02/22 22:29	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	580	mg/L		05/02/22 09:40	1	26	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	18	ug/L		04/27/22 06:14	5	10	04/29/22 14:14	JMW	EPA 6020A
Magnesium, Dissolved	1.5	mg/L		04/27/22 06:14	5	0.10	04/29/22 14:14	JMW	EPA 6020A
Manganese, Dissolved	17	ug/L		04/27/22 06:14	5	1.0	04/29/22 14:14	JMW	EPA 6020A
Total Metals - PIA									
Iron	24	ug/L		04/28/22 09:01	5	10	05/04/22 10:15	JMW	EPA 6020A
Magnesium	1.4	mg/L		04/28/22 09:01	5	0.10	05/04/22 10:15	JMW	EPA 6020A
Manganese	18	ug/L		04/28/22 09:01	5	1.0	05/04/22 10:15	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:08	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:08	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:08	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:08	MTM	EPA 8260B
Benzene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:08	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:08	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:08	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:08	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:08	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:08	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:08	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:08	MTM	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-05
Name: G168
Matrix: Ground Water - Grab

Sampled: 04/26/22 09:00
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	800	mg/L		05/03/22 15:22	1	26	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	< 5.0	mg/L		05/10/22 11:36	5	5.0	05/10/22 11:36	CJP	EPA 300.0 REV 2.1
Sulfate, Dissolved	280	mg/L		05/03/22 00:17	100	100	05/03/22 00:17	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1000	mg/L		05/02/22 09:40	1	26	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	< 10	ug/L		04/27/22 06:14	5	10	04/29/22 14:18	JMW	EPA 6020A
Magnesium, Dissolved	100	mg/L		04/27/22 06:14	5	0.10	04/29/22 14:18	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		04/27/22 06:14	5	1.0	04/29/22 14:18	JMW	EPA 6020A
Total Metals - PIA									
Iron	< 10	ug/L		04/28/22 09:01	5	10	05/04/22 10:19	JMW	EPA 6020A
Magnesium	96	mg/L		04/28/22 09:01	5	0.10	05/04/22 10:19	JMW	EPA 6020A
Manganese	< 1.0	ug/L		04/28/22 09:01	5	1.0	05/04/22 10:19	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 17:49	MTM	EPA 8260B
1,1-Dichloroethene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 17:49	MTM	EPA 8260B
1,2-Dichloroethane	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 17:49	MTM	EPA 8260B
1,2-Dichloropropane	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 17:49	MTM	EPA 8260B
Benzene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 17:49	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 17:49	MTM	EPA 8260B
Chloroform	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 17:49	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 17:49	MTM	EPA 8260B
Methylene chloride	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 17:49	MTM	EPA 8260B
Tetrachloroethene	100	ug/L		04/29/22 09:21	10	10	04/29/22 17:49	MTM	EPA 8260B
Trichloroethene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 17:49	MTM	EPA 8260B
Vinyl chloride	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 17:49	MTM	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-06
Name: G211
Matrix: Ground Water - Grab

Sampled: 04/26/22 11:22
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	420	mg/L		05/03/22 15:22	1	26	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	2.4	mg/L		05/03/22 00:35	1	1.0	05/03/22 00:35	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	2.6	mg/L		05/03/22 00:35	1	1.0	05/03/22 00:35	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	460	mg/L		05/02/22 09:40	1	26	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	3700	ug/L		04/27/22 06:14	5	10	04/29/22 14:22	JMW	EPA 6020A
Magnesium, Dissolved	39	mg/L		04/27/22 06:14	5	0.10	04/29/22 14:22	JMW	EPA 6020A
Manganese, Dissolved	360	ug/L		04/27/22 06:14	5	1.0	04/29/22 14:22	JMW	EPA 6020A
Total Metals - PIA									
Iron	3200	ug/L		04/28/22 09:01	5	10	05/04/22 10:23	JMW	EPA 6020A
Magnesium	38	mg/L		04/28/22 09:01	5	0.10	05/04/22 10:23	JMW	EPA 6020A
Manganese	340	ug/L		04/28/22 09:01	5	1.0	05/04/22 10:23	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:36	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:36	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:36	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:36	MTM	EPA 8260B
Benzene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:36	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:36	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:36	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:36	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:36	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:36	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:36	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 13:36	MTM	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-07
Name: G547
Matrix: Ground Water - Grab

Sampled: 04/26/22 10:00
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	140	mg/L		05/03/22 15:22	1	26	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	7.8	mg/L		05/03/22 01:30	1	1.0	05/03/22 01:30	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	3.6	mg/L		05/03/22 01:30	1	1.0	05/03/22 01:30	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	280	mg/L		05/02/22 09:40	1	26	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	1100	ug/L		04/27/22 06:14	5	10	04/29/22 14:25	JMW	EPA 6020A
Magnesium, Dissolved	24	mg/L		04/27/22 06:14	5	0.10	04/29/22 14:25	JMW	EPA 6020A
Manganese, Dissolved	29	ug/L		04/27/22 06:14	5	1.0	04/29/22 14:25	JMW	EPA 6020A
Total Metals - PIA									
Iron	1500	ug/L		04/28/22 09:01	5	10	05/04/22 10:26	JMW	EPA 6020A
Magnesium	24	mg/L		04/28/22 09:01	5	0.10	05/04/22 10:26	JMW	EPA 6020A
Manganese	32	ug/L		04/28/22 09:01	5	1.0	05/04/22 10:26	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 18:18	MTM	EPA 8260B
1,1-Dichloroethene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 18:18	MTM	EPA 8260B
1,2-Dichloroethane	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 18:18	MTM	EPA 8260B
1,2-Dichloropropane	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 18:18	MTM	EPA 8260B
Benzene	50	ug/L		04/29/22 09:21	10	10	04/29/22 18:18	MTM	EPA 8260B
cis-1,2-Dichloroethene	38	ug/L		04/29/22 09:21	10	10	04/29/22 18:18	MTM	EPA 8260B
Chloroform	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 18:18	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 18:18	MTM	EPA 8260B
Methylene chloride	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 18:18	MTM	EPA 8260B
Tetrachloroethene	30	ug/L		04/29/22 09:21	10	10	04/29/22 18:18	MTM	EPA 8260B
Trichloroethene	78	ug/L		04/29/22 09:21	10	10	04/29/22 18:18	MTM	EPA 8260B
Vinyl chloride	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 18:18	MTM	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-08
Name: G564
Matrix: Ground Water - Grab

Sampled: 04/26/22 10:15
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	1500	mg/L		05/03/22 15:22	1	26	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	7.5	mg/L	Q3	05/10/22 10:24	1	1.0	05/10/22 10:24	CJP	EPA 300.0 REV 2.1
Sulfate, Dissolved	510	mg/L		05/03/22 02:24	100	100	05/03/22 02:24	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1600	mg/L		05/02/22 09:40	1	26	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	12000	ug/L		04/27/22 06:14	5	10	04/29/22 14:29	JMW	EPA 6020A
Magnesium, Dissolved	120	mg/L		04/27/22 06:14	5	0.10	04/29/22 14:29	JMW	EPA 6020A
Manganese, Dissolved	390	ug/L		04/27/22 06:14	5	1.0	04/29/22 14:29	JMW	EPA 6020A
Total Metals - PIA									
Iron	11000	ug/L		04/28/22 09:01	5	10	05/04/22 10:30	JMW	EPA 6020A
Magnesium	120	mg/L		04/28/22 09:01	5	0.10	05/04/22 10:30	JMW	EPA 6020A
Manganese	390	ug/L		04/28/22 09:01	5	1.0	05/04/22 10:30	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:42	MTM	EPA 8260B
1,1-Dichloroethene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:42	MTM	EPA 8260B
1,2-Dichloroethane	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:42	MTM	EPA 8260B
1,2-Dichloropropane	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:42	MTM	EPA 8260B
Benzene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:42	MTM	EPA 8260B
cis-1,2-Dichloroethene	730	ug/L		04/29/22 09:21	10	10	04/29/22 19:42	MTM	EPA 8260B
Chloroform	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:42	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:42	MTM	EPA 8260B
Methylene chloride	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:42	MTM	EPA 8260B
Tetrachloroethene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:42	MTM	EPA 8260B
Trichloroethene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:42	MTM	EPA 8260B
Vinyl chloride	58	ug/L		04/29/22 09:21	10	10	04/29/22 19:42	MTM	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-09
Name: G570
Matrix: Ground Water - Grab

Sampled: 04/26/22 11:35
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	1900	mg/L		05/03/22 15:22	1	26	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	< 5.0	mg/L		05/05/22 14:41	5	5.0	05/05/22 14:41	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	74	mg/L		05/03/22 11:46	10	10	05/03/22 11:46	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1900	mg/L	M	05/02/22 09:40	1	26	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	8000	ug/L		04/27/22 06:14	5	10	04/29/22 14:33	JMW	EPA 6020A
Magnesium, Dissolved	180	mg/L		04/27/22 06:14	5	0.10	04/29/22 14:33	JMW	EPA 6020A
Manganese, Dissolved	350	ug/L		04/27/22 06:14	5	1.0	04/29/22 14:33	JMW	EPA 6020A
Total Metals - PIA									
Iron	7300	ug/L		04/28/22 09:01	5	10	05/04/22 10:34	JMW	EPA 6020A
Magnesium	170	mg/L		04/28/22 09:01	5	0.10	05/04/22 10:34	JMW	EPA 6020A
Manganese	360	ug/L		04/28/22 09:01	5	1.0	05/04/22 10:34	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:04	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:04	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:04	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:04	MTM	EPA 8260B
Benzene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:04	MTM	EPA 8260B
cis-1,2-Dichloroethene	2.8	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:04	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:04	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:04	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:04	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:04	MTM	EPA 8260B
Trichloroethene	1.4	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:04	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:04	MTM	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-10
Name: G575
Matrix: Ground Water - Grab

Sampled: 04/26/22 10:26
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	600	mg/L		05/03/22 15:22	1	26	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	7.0	mg/L		05/03/22 12:05	1	1.0	05/03/22 12:05	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	54	mg/L		05/03/22 12:23	10	10	05/03/22 12:23	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	650	mg/L		05/02/22 09:40	1	26	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	7800	ug/L		04/27/22 06:14	5	10	04/29/22 14:36	JMW	EPA 6020A
Magnesium, Dissolved	61	mg/L		04/27/22 06:14	5	0.10	04/29/22 14:36	JMW	EPA 6020A
Manganese, Dissolved	84	ug/L		04/27/22 06:14	5	1.0	04/29/22 14:36	JMW	EPA 6020A
Total Metals - PIA									
Iron	9600	ug/L		04/28/22 09:01	5	10	05/04/22 10:52	JMW	EPA 6020A
Magnesium	58	mg/L		04/28/22 09:01	5	0.10	05/04/22 10:52	JMW	EPA 6020A
Manganese	83	ug/L		04/28/22 09:01	5	1.0	05/04/22 10:52	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	35	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:32	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:32	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:32	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:32	MTM	EPA 8260B
Benzene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:32	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:32	MTM	EPA 8260B
Chloroform	1.7	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:32	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:32	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:32	MTM	EPA 8260B
Tetrachloroethene	8.3	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:32	MTM	EPA 8260B
Trichloroethene	1.5	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:32	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 14:32	MTM	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-11
Name: G591
Matrix: Ground Water - Grab

Sampled: 04/26/22 10:46
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	460	mg/L		05/03/22 15:22	1	26	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	28	mg/L		05/03/22 12:41	10	10	05/03/22 12:41	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	52	mg/L		05/03/22 12:41	10	10	05/03/22 12:41	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	610	mg/L		05/02/22 09:40	1	26	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	6800	ug/L		04/27/22 06:14	5	10	04/29/22 14:40	JMW	EPA 6020A
Magnesium, Dissolved	68	mg/L		04/27/22 06:14	5	0.10	04/29/22 14:40	JMW	EPA 6020A
Manganese, Dissolved	710	ug/L		04/27/22 06:14	5	1.0	04/29/22 14:40	JMW	EPA 6020A
Total Metals - PIA									
Iron	6600	ug/L		04/28/22 09:01	5	10	05/04/22 10:55	JMW	EPA 6020A
Magnesium	65	mg/L		04/28/22 09:01	5	0.10	05/04/22 10:55	JMW	EPA 6020A
Manganese	700	ug/L		04/28/22 09:01	5	1.0	05/04/22 10:55	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	26	ug/L		04/29/22 09:21	10	10	04/29/22 18:46	MTM	EPA 8260B
1,1-Dichloroethene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 18:46	MTM	EPA 8260B
1,2-Dichloroethane	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 18:46	MTM	EPA 8260B
1,2-Dichloropropane	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 18:46	MTM	EPA 8260B
Benzene	160	ug/L		04/29/22 09:21	10	10	04/29/22 18:46	MTM	EPA 8260B
cis-1,2-Dichloroethene	19	ug/L		04/29/22 09:21	10	10	04/29/22 18:46	MTM	EPA 8260B
Chloroform	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 18:46	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 18:46	MTM	EPA 8260B
Methylene chloride	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 18:46	MTM	EPA 8260B
Tetrachloroethene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 18:46	MTM	EPA 8260B
Trichloroethene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 18:46	MTM	EPA 8260B
Vinyl chloride	21	ug/L		04/29/22 09:21	10	10	04/29/22 18:46	MTM	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-12
Name: G592
Matrix: Ground Water - Grab

Sampled: 04/26/22 11:00
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	500	mg/L		05/03/22 15:22	1	26	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	6.0	mg/L		05/03/22 12:59	1	1.0	05/03/22 12:59	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	58	mg/L		05/03/22 13:17	10	10	05/03/22 13:17	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	660	mg/L		05/02/22 09:40	1	26	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	77	ug/L		05/02/22 05:49	5	10	05/02/22 09:27	JMW	EPA 6020A
Magnesium, Dissolved	60	mg/L		05/02/22 05:49	5	0.10	05/02/22 09:27	JMW	EPA 6020A
Manganese, Dissolved	1.8	ug/L		05/02/22 05:49	5	1.0	05/02/22 09:27	JMW	EPA 6020A
Total Metals - PIA									
Iron	81	ug/L		04/28/22 09:01	5	10	05/04/22 10:59	JMW	EPA 6020A
Magnesium	62	mg/L		04/28/22 09:01	5	0.10	05/04/22 10:59	JMW	EPA 6020A
Manganese	1.2	ug/L		04/28/22 09:01	5	1.0	05/04/22 10:59	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	43	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:00	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:00	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:00	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:00	MTM	EPA 8260B
Benzene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:00	MTM	EPA 8260B
cis-1,2-Dichloroethene	2.5	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:00	MTM	EPA 8260B
Chloroform	1.5	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:00	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:00	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:00	MTM	EPA 8260B
Tetrachloroethene	23	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:00	MTM	EPA 8260B
Trichloroethene	2.5	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:00	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:00	MTM	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-13
Name: G594
Matrix: Ground Water - Grab

Sampled: 04/26/22 10:36
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	380	mg/L		05/03/22 15:22	1	26	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	20	mg/L		05/03/22 13:35	10	10	05/03/22 13:35	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	25	mg/L		05/03/22 13:35	10	10	05/03/22 13:35	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	530	mg/L		05/02/22 09:40	1	26	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	1100	ug/L		05/02/22 05:49	5	10	05/02/22 09:31	JMW	EPA 6020A
Magnesium, Dissolved	50	mg/L		05/02/22 05:49	5	0.10	05/02/22 09:31	JMW	EPA 6020A
Manganese, Dissolved	24	ug/L		05/02/22 05:49	5	1.0	05/02/22 09:31	JMW	EPA 6020A
Total Metals - PIA									
Iron	3500	ug/L		04/28/22 09:01	5	10	05/04/22 11:03	JMW	EPA 6020A
Magnesium	48	mg/L		04/28/22 09:01	5	0.10	05/04/22 11:03	JMW	EPA 6020A
Manganese	49	ug/L		04/28/22 09:01	5	1.0	05/04/22 11:03	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	2.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:28	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:28	MTM	EPA 8260B
1,2-Dichloroethane	1.4	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:28	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:28	MTM	EPA 8260B
Benzene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:28	MTM	EPA 8260B
cis-1,2-Dichloroethene	62	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:28	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:28	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:28	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:28	MTM	EPA 8260B
Tetrachloroethene	2.3	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:28	MTM	EPA 8260B
Trichloroethene	4.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:28	MTM	EPA 8260B
Vinyl chloride	2.3	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:28	MTM	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-14
Name: G600
Matrix: Ground Water - Grab

Sampled: 04/26/22 11:10
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	460	mg/L		05/03/22 15:22	1	26	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	4.8	mg/L		05/03/22 14:29	1	1.0	05/03/22 14:29	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	61	mg/L		05/03/22 14:47	10	10	05/03/22 14:47	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	640	mg/L		05/02/22 09:40	1	26	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	14000	ug/L		05/02/22 05:49	5	10	05/02/22 09:34	JMW	EPA 6020A
Magnesium, Dissolved	53	mg/L		05/02/22 05:49	5	0.10	05/02/22 09:34	JMW	EPA 6020A
Manganese, Dissolved	560	ug/L		05/02/22 05:49	5	1.0	05/02/22 09:34	JMW	EPA 6020A
Total Metals - PIA									
Iron	28000	ug/L		04/28/22 09:01	5	10	05/04/22 11:06	JMW	EPA 6020A
Magnesium	54	mg/L		04/28/22 09:01	5	0.10	05/04/22 11:06	JMW	EPA 6020A
Manganese	680	ug/L		04/28/22 09:01	5	1.0	05/04/22 11:06	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:14	MTM	EPA 8260B
1,1-Dichloroethene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:14	MTM	EPA 8260B
1,2-Dichloroethane	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:14	MTM	EPA 8260B
1,2-Dichloropropane	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:14	MTM	EPA 8260B
Benzene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:14	MTM	EPA 8260B
cis-1,2-Dichloroethene	250	ug/L		04/29/22 09:21	10	10	04/29/22 19:14	MTM	EPA 8260B
Chloroform	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:14	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:14	MTM	EPA 8260B
Methylene chloride	< 10	ug/L		04/29/22 09:21	10	10	04/29/22 19:14	MTM	EPA 8260B
Tetrachloroethene	100	ug/L		04/29/22 09:21	10	10	04/29/22 19:14	MTM	EPA 8260B
Trichloroethene	120	ug/L		04/29/22 09:21	10	10	04/29/22 19:14	MTM	EPA 8260B
Vinyl chloride	16	ug/L		04/29/22 09:21	10	10	04/29/22 19:14	MTM	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-15
Name: S501
Matrix: Surface Water - Grab

Sampled: 04/26/22 12:50
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	1600	mg/L		05/03/22 15:22	1	26	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	5.5	mg/L		05/11/22 01:31	1	1.0	05/11/22 01:31	CJP	EPA 300.0 REV 2.1
Sulfate, Dissolved	910	mg/L		05/04/22 01:21	250	250	05/04/22 01:21	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1700	mg/L		05/02/22 09:40	1	34	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	27	ug/L		05/02/22 05:49	5	10	05/02/22 09:38	JMW	EPA 6020A
Magnesium, Dissolved	180	mg/L		05/02/22 05:49	5	0.10	05/02/22 09:38	JMW	EPA 6020A
Manganese, Dissolved	47	ug/L		05/02/22 05:49	5	1.0	05/02/22 09:38	JMW	EPA 6020A
Total Metals - PIA									
Iron	37	ug/L		04/28/22 09:01	5	10	05/04/22 11:10	JMW	EPA 6020A
Magnesium	160	mg/L		04/28/22 09:01	5	0.10	05/04/22 11:10	JMW	EPA 6020A
Manganese	44	ug/L		04/28/22 09:01	5	1.0	05/04/22 11:10	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:57	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:57	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:57	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:57	MTM	EPA 8260B
Benzene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:57	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:57	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:57	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:57	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:57	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:57	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:57	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 15:57	MTM	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-16
Name: S502
Matrix: Surface Water - Grab

Sampled: 04/26/22 13:15
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	1600	mg/L		05/03/22 15:22	1	26	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	5.7	mg/L		05/11/22 01:50	1	1.0	05/11/22 01:50	CJP	EPA 300.0 REV 2.1
Sulfate, Dissolved	890	mg/L		05/04/22 01:58	250	250	05/04/22 01:58	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1600	mg/L		05/02/22 09:40	1	34	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	39	ug/L		05/02/22 05:49	5	10	05/02/22 09:42	JMW	EPA 6020A
Magnesium, Dissolved	180	mg/L		05/02/22 05:49	5	0.10	05/02/22 09:42	JMW	EPA 6020A
Manganese, Dissolved	51	ug/L		05/02/22 05:49	5	1.0	05/02/22 09:42	JMW	EPA 6020A
Total Metals - PIA									
Iron	55	ug/L		04/28/22 09:01	5	10	05/04/22 11:14	JMW	EPA 6020A
Magnesium	170	mg/L		04/28/22 09:01	5	0.10	05/04/22 11:14	JMW	EPA 6020A
Manganese	53	ug/L		04/28/22 09:01	5	1.0	05/04/22 11:14	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 16:25	MTM	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 16:25	MTM	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 16:25	MTM	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 16:25	MTM	EPA 8260B
Benzene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 16:25	MTM	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 16:25	MTM	EPA 8260B
Chloroform	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 16:25	MTM	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 16:25	MTM	EPA 8260B
Methylene chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 16:25	MTM	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 16:25	MTM	EPA 8260B
Trichloroethene	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 16:25	MTM	EPA 8260B
Vinyl chloride	< 1.0	ug/L		04/29/22 09:21	1	1.0	04/29/22 16:25	MTM	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-17
Name: FIELD BLANK 1
Matrix: Surface Water - Field Blank

Sampled: 04/26/22 10:20
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	< 17	mg/L		05/03/22 15:22	1	17	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	< 1.0	mg/L		05/04/22 02:17	1	1.0	05/04/22 02:17	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	< 1.0	mg/L		05/04/22 02:17	1	1.0	05/04/22 02:17	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	< 17	mg/L		05/02/22 09:40	1	17	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	45	ug/L		05/02/22 05:49	5	10	05/02/22 09:46	JMW	EPA 6020A
Magnesium, Dissolved	< 0.10	mg/L		05/02/22 05:49	5	0.10	05/02/22 09:46	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		05/02/22 05:49	5	1.0	05/02/22 09:46	JMW	EPA 6020A
Total Metals - PIA									
Iron	< 10	ug/L		04/28/22 09:01	5	10	05/04/22 11:18	JMW	EPA 6020A
Magnesium	< 0.10	mg/L		04/28/22 09:01	5	0.10	05/04/22 11:18	JMW	EPA 6020A
Manganese	< 1.0	ug/L		04/28/22 09:01	5	1.0	05/04/22 11:18	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:19	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:19	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:19	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:19	SEB	EPA 8260B
Benzene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:19	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:19	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:19	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:19	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:19	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:19	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:19	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:19	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-18
Name: EQUIPMENT BLANK
Matrix: Surface Water - Equipment Blank

Sampled: 04/26/22 13:30
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	< 17	mg/L		05/03/22 15:22	1	17	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	< 1.0	mg/L		05/04/22 02:36	1	1.0	05/04/22 02:36	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	< 1.0	mg/L		05/04/22 02:36	1	1.0	05/04/22 02:36	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	< 17	mg/L		05/02/22 09:40	1	17	05/02/22 10:48	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	< 10	ug/L		05/02/22 05:49	5	10	05/02/22 11:04	JMW	EPA 6020A
Magnesium, Dissolved	< 0.10	mg/L		05/02/22 05:49	5	0.10	05/02/22 11:04	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		05/02/22 05:49	5	1.0	05/02/22 11:04	JMW	EPA 6020A
Total Metals - PIA									
Iron	< 10	ug/L		04/28/22 09:01	5	10	05/04/22 11:21	JMW	EPA 6020A
Magnesium	< 0.10	mg/L		04/28/22 09:01	5	0.10	05/04/22 11:21	JMW	EPA 6020A
Manganese	< 1.0	ug/L		04/28/22 09:01	5	1.0	05/04/22 11:21	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:47	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:47	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:47	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:47	SEB	EPA 8260B
Benzene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:47	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:47	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:47	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:47	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:47	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:47	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:47	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 20:47	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FD04622-19
Name: TRIP BLANK
Matrix: Surface Water - Trip Blank

Sampled: 04/26/22 13:30
Received: 04/27/22 09:35

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	< 17	mg/L		05/03/22 15:22	1	17	05/03/22 16:03	JLC1	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	< 1.0	mg/L		05/04/22 02:55	1	1.0	05/04/22 02:55	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	< 1.0	mg/L		05/04/22 02:55	1	1.0	05/04/22 02:55	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	< 17	mg/L		05/02/22 12:47	1	17	05/02/22 13:58	JLC1	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	< 10	ug/L		05/02/22 05:49	5	10	05/02/22 11:08	JMW	EPA 6020A
Magnesium, Dissolved	< 0.10	mg/L		05/02/22 05:49	5	0.10	05/02/22 11:08	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		05/02/22 05:49	5	1.0	05/02/22 11:08	JMW	EPA 6020A
Total Metals - PIA									
Iron	< 10	ug/L		04/28/22 09:01	5	10	05/04/22 11:25	JMW	EPA 6020A
Magnesium	< 0.10	mg/L		04/28/22 09:01	5	0.10	05/04/22 11:25	JMW	EPA 6020A
Manganese	< 1.0	ug/L		04/28/22 09:01	5	1.0	05/04/22 11:25	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 21:15	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 21:15	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 21:15	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 21:15	SEB	EPA 8260B
Benzene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 21:15	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 21:15	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 21:15	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 21:15	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 21:15	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 21:15	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 21:15	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		05/03/22 09:49	1	1.0	05/03/22 21:15	SEB	EPA 8260B

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NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050
TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615
TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)
Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)
Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807
USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042
TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389
TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050
Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Qualifiers

M	Analyte failed to meet the required acceptance criteria for duplicate analysis.
Q3	Matrix Spike/Matrix Spike Duplicate both failed % recovery acceptance limits. The associated blank spike recovery was acceptable.

Gail J Schindler

Certified by: Gail Schindler, Project Manager

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REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED IL

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT	PROJECT NUMBER	PROJECT LOCATION	PURCHASE ORDER #
US ECOLOGY		USE Sheffield	—
ADDRESS: PO BOX 206	PHONE NUMBER: 815-454-2342	E-MAIL	DATE SHIPPED: 4-27-22
CITY / STATE / ZIP: SHEFFIELD IL 61361	SAMPLER (PLEASE PRINT): Shawn Long / Nathan Long		MATRIX TYPES: WW- WASTEWATER; DW- DRINKING WATER; GW- GROUND WATER; WWSL- SLUDGE; NAS- NON AQUEOUS SOLID; LCHT-LEACHATE; OIL-OIL; SO-SOIL; SOL-SOLID
CONTACT PERSON: DOUG LONG	SAMPLER'S SIGNATURE: Shawn Long / Nathan Long		

3 ANALYSIS REQUESTED

4 (FOR LAB USE ONLY)
LOGIN # FD0416 22-19
LOGGED BY: KEG
CLIENT: US ECOLOGY - SHEFFIELD
PROJECT: USE LTSP
PROJ. MGR.: GAIL SCHINDLER

2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	SAMPLE TYPE COMP	MATRIX TYPE	BOTTLE COUNT	PRES CODE CLIENT PROVIDED	CL*, SO4*, TDS*, TS	FE**, MG**, MN**	VOA				REMARKS
G160	4-26-22	0945	X		GW	7	1,3,6	X	X	X				*DISSOLVED
G162		0932	X		GW	7	1,3,6	X	X	X				** TOTAL & DISSOLVED
G165		0911	X		GW	7	1,3,6	X	X	X				
G166		0920	X		GW	7	1,3,6	X	X	X				
G168		0900	X		GW	7	1,3,6	X	X	X				
G211		1122	X		GW	7	1,3,6	X	X	X				
G547		1000	X		GW	7	1,3,6	X	X	X				
G564		1015	X		GW	7	1,3,6	X	X	X				
G570		1135	X		GW	7	1,3,6	X	X	X				

CHEMICAL PRESERVATION CODES: 1 – HCL | 2 – H2SO4 | 3 – HNO3 | 4 – NAOH | 5 – NA2S2O3 | 6 – UNPRESERVED | 7 – OTHER

5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TAT IS SUBJECT TO PACE LABS APPROVAL AND SURCHARGE): NORMAL RUSH
DATE RESULTS NEEDED:
RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE
EMAIL IF DIFFERENT FROM ABOVE:
PHONE # IF DIFFERENT FROM ABOVE:

6 *I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities.*
PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS) SL

7	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	Shawn Long	4-26-22	1410	Nathan Long	4-27-22	0830
	Nathan Long	4-27-22	0935			
				Kathy Gray	04/27/22	0935

8 COMMENTS: (FOR LAB USE ONLY)
custody seal intact + in use upon receipt -KEG
SAMPLE TEMPERATURE UPON RECEIPT 5.7 °C
CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N
SAMPLE(S) RECEIVED ON ICE Y OR N
SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED Y OR N
DATE AND TIME TAKEN FROM SAMPLE BOTTLE

PACE ANALYTICAL SERVICES
WWW.PACELABS.COM

REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED IL

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT	PROJECT NUMBER	PROJECT LOCATION	PURCHASE ORDER #
US ECOLOGY		USE Sheffield	—
ADDRESS: PO BOX 206	PHONE NUMBER: 815-454-2342	E-MAIL	DATE SHIPPED: 4-27-22
CITY / STATE / ZIP: SHEFFIELD IL 61361	SAMPLER (PLEASE PRINT): Shawn Long / Nathan Long		MATRIX TYPES: WW- WASTEWATER, DW- DRINKING WATER, GW- GROUND WATER, WWSL- SLUDGE, NAS- NON AQUEOUS SOLID, LCHT-LEACHATE, OIL-OIL, SO-SOIL, SOL-SOLID
CONTACT PERSON: DOUG LONG	SAMPLER'S SIGNATURE: Shawn Long / Nathan Long		

3 ANALYSIS REQUESTED

4 (FOR LAB USE ONLY)
LOGIN # FD044622-19
LOGGED BY: KRR
CLIENT: US ECOLOGY - SHEFFIELD
PROJECT: USE LTSP
PROJ. MGR.: GAIL SCHINDLER

2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	SAMPLE TYPE COMP	MATRIX TYPE	BOTTLE COUNT	PRES CODE (CLIENT PROVIDED)	CL*, SO4*, TDS*, TS	FE**, MG**, MN**	VOA					REMARKS
G575	4-26-22	1026	X		GW	7	1,3,6	X	X	X					*DISSOLVED
G591		1046	X		GW	7	1,3,6	X	X	X					** TOTAL & DISSOLVED
G592		1100	X		GW	7	1,3,6	X	X	X					
G594		1036	X		GW	7	1,3,6	X	X	X					
G600		1110	X		GW	7	1,3,6	X	X	X					
S501		1250	X		SW	7	1,3,6	X	X	X					
S502		1315	X		SW	7	1,3,6	X	X	X					
FIELD BLANK 1		1020	X		DI	7	1,3,6	X	X	X					
~~FIELD BLANK 2~~		—	X		DI	7	1,3,6	X	X	X					

CHEMICAL PRESERVATION CODES: 1 – HCL | 2 – H2SO4 | 3 – HNO3 | 4 – NAOH | 5 – NA2S2O3 | 6 – UNPRESERVED | 7 – OTHER

5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TAT IS SUBJECT TO PACE LABS APPROVAL AND SURCHARGE): (NORMAL) RUSH
DATE RESULTS NEEDED:
RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE
EMAIL IF DIFFERENT FROM ABOVE:
PHONE # IF DIFFERENT FROM ABOVE:

6 *I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities.*
PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS) SL

7		DATE	TIME		DATE	TIME
RELINQUISHED BY: (SIGNATURE)	Shawn Long	4-26-22	1410	RECEIVED BY: (SIGNATURE)		4-27-22	0830
RELINQUISHED BY: (SIGNATURE)		4-27-22	0935	RECEIVED BY: (SIGNATURE)			
RELINQUISHED BY: (SIGNATURE)				RECEIVED BY: (SIGNATURE)		04/27/22	0935

8 COMMENTS: (FOR LAB USE ONLY)
custody seal in use + intact @ receipt - ICR
SAMPLE TEMPERATURE UPON RECEIPT 5.7 °C
CHILL PROCESS STARTED PRIOR TO RECEIPT (Y) OR N
SAMPLE(S) RECEIVED ON ICE (Y) OR N
SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED Y OR (N)
DATE AND TIME TAKEN FROM SAMPLE BOTTLE

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REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED IL

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

(1) CLIENT: US ECOLOGY
PROJECT NUMBER:
PROJECT LOCATION: USE Sheffield
PURCHASE ORDER #: —
ADDRESS: PO BOX 206
PHONE NUMBER: 815-454-2342
E-MAIL:
DATE SHIPPED: 4-27-22
CITY / STATE / ZIP: SHEFFIELD IL 61361
SAMPLER (PLEASE PRINT): Shawn Long / Nathan Long
SAMPLER'S SIGNATURE: Shawn Long / Nathan Long
CONTACT PERSON: DOUG LONG

MATRIX TYPES:
WW- WASTEWATER
DW- DRINKING WATER
GW- GROUND WATER
WWSL- SLUDGE
NAS- NON AQUEOUS SOLID
LCHT-LEACHATE
OIL-OIL
SO-SOIL
SOL-SOLID

(3) ANALYSIS REQUESTED

(4) (FOR LAB USE ONLY)
LOGIN # FD04622-19
LOGGED BY: KEC
CLIENT: US ECOLOGY - SHEFFIELD
PROJECT: USE LTSP
PROJ. MGR.: GAIL SCHINDLER

(2) SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	SAMPLE TYPE COMP	MATRIX TYPE	BOTTLE COUNT	PRES CODE CLIENT PROVIDED	CL*, SO4*, TDS*, TS	FE**, MG**, MN**	VOA				REMARKS
EQUIPMENT BLANK	4-26-22	1330	X		DI	7	1,3,6	X	X	X				*DISSOLVED
TRIP BLANK	4-26-22	1330	X		DI	7	1,3,6	X	X	X				** TOTAL & DISSOLVED

CHEMICAL PRESERVATION CODES: 1 – HCL | 2 – H2SO4 | 3 – HNO3 | 4 – NAOH | 5 – NA2S2O3 | 6 – UNPRESERVED | 7 – OTHER

(5) TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TAT IS SUBJECT TO PACE LABS APPROVAL AND SURCHARGE): NORMAL RUSH
DATE RESULTS NEEDED:
RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE
EMAIL IF DIFFERENT FROM ABOVE:
PHONE # IF DIFFERENT FROM ABOVE:

(6) *I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities.*
PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS) SL

(7)	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	Shawn Long	4-26-22	1410	Nathan Long	4-27-22	0830
	RELINQUISHED BY: (SIGNATURE) Nathan Long	4-27-22	0935	RECEIVED BY: (SIGNATURE)		
	RELINQUISHED BY: (SIGNATURE)			RECEIVED BY: (SIGNATURE) Kathy Gray	04/27/22	0935

(8) COMMENTS: (FOR LAB USE ONLY)
custody seal in use + intact @ receipt - KEC
SAMPLE TEMPERATURE UPON RECEIPT: 5.7 °C
CHILL PROCESS STARTED PRIOR TO RECEIPT: Y OR N
SAMPLE(S) RECEIVED ON ICE: Y OR N
SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED: Y OR N
DATE AND TIME TAKEN FROM SAMPLE BOTTLE:

Spring 2022

Post-Closure Semi-Annual Groundwater Sampling Log

US Ecology Illinois

Well #	To Water	To Bottom	Elevation to Water	pH/Temp	Spec Cond	Turbidity	Appearance	Odor	Sample Date	Time	Climate Cond.	Initials
G160	2.66	41.06	732.00	10.4/6.34	3920	114	Silty Brn	None	4/26/2022	0945	Overcast/Cool	RSL/NGL
G162	2.67	29.30	716.89	10.2/6.38	2990	17.69	Clear	None	4/26/2022	0932	Overcast/Cool	RSL/NGL
G591	22.06	41.86	716.63	8.3/7.05	882	32.8	Clear	None	4/26/2022	1046	Overcast/Cool	RSL/NGL
G592	21.41	35.66	716.65	8.6/6.81	958	0.97	Clear	None	4/26/2022	1100	Overcast/Cool	RSL/NGL
G600	20.03	22.30	714.52	9.1/6.70	888	77.3	Silty Brn	None	4/26/2022	1110	Overcast/Cool	RSL/NGL
G165	3.27	44.66	736.50	9.3/7.14	894	9.55	Clear	None	4/26/2022	0911	Overcast/Cool	RSL/NGL
G166	10.51	71.41	729.64	10.1/9.08	848	0.71	Clear	None	4/26/2022	0920	Overcast/Cool	RSL/NGL
G168	30.21	50.30	736.20	9.1/6.84	1308	0.36	Clear	None	4/26/2022	0900	Overcast/Cool	RSL/NGL
G547	11.41	44.21	729.00	9.0/8.70	467	11.42	Clear	None	4/26/2022	1000	Overcast/Cool	RSL/NGL
G564	20.85	45.93	720.16	8.4/6.90	1726	42.6	Clear	None	4/26/2022	1015	Overcast/Cool	RSL/NGL
G575	28.24	46.52	719.48	8.5/6.68	939	47.2	Silty Brn	None	4/26/2022	1026	Overcast/Cool	RSL/NGL
G594	20.85	41.71	719.59	9.1/6.90	830	6.15	Clear	None	4/26/2022	1036	Overcast/Cool	RSL/NGL
G211	21.28	42.60	705.27	9.9/7.32	730	12.01	Clear	None	4/26/2022	1122	Overcast/Cool	RSL/NGL
G570	3.67	17.00	721.54	10.7/6.60	1853	38.8	Clear	None	4/26/2022	1135	Overcast/Cool	RSL/NGL
S501	1.50	N/A	700.58	14.8/8.13	1736	5.25	Clear	None	4/26/2022	1250	Overcast/Cool	RSL/NGL
S502	N/A	N/A	N/A	13.5/8.14	1726	5.01	Clear	None	4/26/2022	1315	Overcast/Cool	RSL/NGL

Signed: Doug Kerg

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

October 21, 2022

Doug Long
US Ecology, Inc. Sheffield
PO Box 206
Sheffield, IL 61361

RE: US ECOLOGY LTSP

Dear Doug Long:

Please find enclosed the analytical results for the **19** sample(s) the laboratory received on **9/30/22 9:23 am** and logged in under work order **FI05728**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise . We are always trying to improve our customer service and we welcome you to contact the Director of Client Services, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Gail J Schindler

Gail Schindler
Project Manager
(309) 692-9688 x1716
gail.schindler@pacelabs.com

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order FI05728

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
YES	Case narrative provided

Pace Analytical Services, LLC
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Peoria, IL 61615
(800)752-6651

Case Narrative

Cis-1,2-dichloroethene is flagged with an E qualifier for G564 and G600. We performed a series of dilutions on these samples but the results continually exceeded calibration range. We did not have any unused vials left to continue diluting the samples until they were in calibration range .
TDS wase originally set within hold time but the blank failied. Samples were reset out of hold time and are flagged with an H.

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Peoria, IL 61615
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ANALYTICAL RESULTS

Sample: FI05728-01
Name: G160
Matrix: Ground Water - Grab

Sampled: 09/27/22 09:15
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	3100	mg/L		10/03/22 15:17	1	26	10/04/22 15:51	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	4.3	mg/L		10/04/22 12:08	1	1.0	10/04/22 12:08	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	1800	mg/L		10/04/22 12:26	500	500	10/04/22 12:26	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	3400	mg/L		10/04/22 15:09	1	26	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	3800	ug/L		10/03/22 12:00	5	10	10/04/22 10:57	JMW	EPA 6020A
Magnesium, Dissolved	280	mg/L		10/03/22 12:00	5	0.10	10/04/22 10:57	JMW	EPA 6020A
Manganese, Dissolved	2000	ug/L		10/03/22 12:00	5	1.0	10/04/22 10:57	JMW	EPA 6020A
Total Metals - PIA									
Iron	5000	ug/L		10/04/22 09:47	5	10	10/04/22 14:51	JMW	EPA 6020A
Magnesium	300	mg/L		10/04/22 09:47	5	0.10	10/04/22 14:51	JMW	EPA 6020A
Manganese	2100	ug/L		10/04/22 09:47	5	1.0	10/04/22 14:51	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 14:04	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 14:04	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 14:04	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 14:04	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 14:04	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 14:04	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 14:04	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 14:04	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 14:04	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 14:04	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 14:04	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 14:04	SEB	EPA 8260B

Pace Analytical Services, LLC
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Peoria, IL 61615
(800)752-6651

ANALYTICAL RESULTS

Sample: FI05728-02
Name: G162
Matrix: Ground Water - Grab

Sampled: 09/27/22 09:05
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	3100	mg/L		10/03/22 15:17	1	26	10/04/22 15:51	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	6.6	mg/L		10/04/22 12:44	1	1.0	10/04/22 12:44	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	1900	mg/L		10/04/22 13:02	500	500	10/04/22 13:02	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	3300	mg/L		10/04/22 15:09	1	26	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	3300	ug/L		10/03/22 12:00	5	10	10/04/22 11:01	JMW	EPA 6020A
Magnesium, Dissolved	290	mg/L		10/03/22 12:00	5	0.10	10/04/22 11:01	JMW	EPA 6020A
Manganese, Dissolved	2800	ug/L		10/03/22 12:00	5	1.0	10/04/22 11:01	JMW	EPA 6020A
Total Metals - PIA									
Iron	3200	ug/L		10/04/22 09:47	5	10	10/04/22 14:54	JMW	EPA 6020A
Magnesium	290	mg/L		10/04/22 09:47	5	0.10	10/04/22 14:54	JMW	EPA 6020A
Manganese	2800	ug/L		10/04/22 09:47	5	1.0	10/04/22 14:54	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:28	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:28	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:28	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:28	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:28	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:28	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:28	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:28	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:28	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:28	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:28	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:28	SEB	EPA 8260B

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Peoria, IL 61615
(800)752-6651

ANALYTICAL RESULTS

Sample: FI05728-03
Name: G165
Matrix: Ground Water - Grab

Sampled: 09/27/22 08:45
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	710	mg/L		10/03/22 15:17	1	26	10/04/22 15:51	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	1.8	mg/L		10/04/22 21:10	1	1.0	10/04/22 21:10	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	270	mg/L		10/04/22 13:38	50	50	10/04/22 13:38	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	810	mg/L		10/04/22 15:09	1	26	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	22	ug/L		10/03/22 12:00	5	10	10/04/22 11:05	JMW	EPA 6020A
Magnesium, Dissolved	61	mg/L		10/03/22 12:00	5	0.10	10/04/22 11:05	JMW	EPA 6020A
Manganese, Dissolved	58	ug/L		10/03/22 12:00	5	1.0	10/04/22 11:05	JMW	EPA 6020A
Total Metals - PIA									
Iron	57	ug/L		10/04/22 09:47	5	10	10/04/22 14:58	JMW	EPA 6020A
Magnesium	62	mg/L		10/04/22 09:47	5	0.10	10/04/22 14:58	JMW	EPA 6020A
Manganese	60	ug/L		10/04/22 09:47	5	1.0	10/04/22 14:58	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:56	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:56	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:56	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:56	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:56	SEB	EPA 8260B
cis-1,2-Dichloroethene	5.1	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:56	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:56	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:56	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:56	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:56	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:56	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 15:56	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FI05728-04
Name: G166
Matrix: Ground Water - Grab

Sampled: 09/27/22 08:52
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	560	mg/L	H	10/05/22 16:35	1	26	10/05/22 16:49	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	3.0	mg/L		10/04/22 13:56	1	1.0	10/04/22 13:56	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	1.7	mg/L		10/04/22 13:56	1	1.0	10/04/22 13:56	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	520	mg/L		10/04/22 15:09	1	26	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	21	ug/L		10/03/22 12:00	5	10	10/04/22 11:08	JMW	EPA 6020A
Magnesium, Dissolved	1.6	mg/L		10/03/22 12:00	5	0.10	10/04/22 11:08	JMW	EPA 6020A
Manganese, Dissolved	20	ug/L		10/03/22 12:00	5	1.0	10/04/22 11:08	JMW	EPA 6020A
Total Metals - PIA									
Iron	29	ug/L		10/04/22 09:47	5	10	10/04/22 15:02	JMW	EPA 6020A
Magnesium	1.7	mg/L		10/04/22 09:47	5	0.10	10/04/22 15:02	JMW	EPA 6020A
Manganese	22	ug/L		10/04/22 09:47	5	1.0	10/04/22 15:02	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:24	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:24	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:24	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:24	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:24	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:24	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:24	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:24	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:24	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:24	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:24	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:24	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FI05728-05
Name: G168
Matrix: Ground Water - Grab

Sampled: 09/27/22 08:30
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	1000	mg/L	H	10/05/22 16:35	1	26	10/05/22 16:49	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	1.8	mg/L		10/04/22 15:09	1	1.0	10/04/22 15:09	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	290	mg/L		10/04/22 16:39	50	50	10/04/22 16:39	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1100	mg/L		10/04/22 15:09	1	26	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	< 10	ug/L		10/03/22 12:00	5	10	10/04/22 11:12	JMW	EPA 6020A
Magnesium, Dissolved	100	mg/L	Q2	10/03/22 12:00	5	0.10	10/04/22 11:12	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		10/03/22 12:00	5	1.0	10/04/22 11:12	JMW	EPA 6020A
Total Metals - PIA									
Iron	< 10	ug/L		10/04/22 09:47	5	10	10/04/22 15:30	JMW	EPA 6020A
Magnesium	110	mg/L		10/04/22 09:47	5	0.10	10/04/22 15:30	JMW	EPA 6020A
Manganese	1.0	ug/L		10/04/22 09:47	5	1.0	10/04/22 15:30	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:52	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:52	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:52	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:52	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:52	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:52	SEB	EPA 8260B
Chloroform	3.9	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:52	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:52	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:52	SEB	EPA 8260B
Tetrachloroethene	110	ug/L		10/06/22 14:28	5	5.0	10/06/22 17:24	SEB	EPA 8260B
Trichloroethene	6.4	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:52	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 16:52	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FI05728-06
Name: G211
Matrix: Ground Water - Grab

Sampled: 09/27/22 10:57
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	390	mg/L		10/03/22 15:17	1	26	10/04/22 15:51	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	3.0	mg/L	Q3	10/04/22 15:45	1	1.0	10/04/22 15:45	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	1.5	mg/L		10/04/22 15:45	1	1.0	10/04/22 15:45	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	420	mg/L		10/04/22 15:09	1	11	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	6200	ug/L		10/03/22 12:00	5	10	10/04/22 11:23	JMW	EPA 6020A
Magnesium, Dissolved	40	mg/L		10/03/22 12:00	5	0.10	10/04/22 11:23	JMW	EPA 6020A
Manganese, Dissolved	310	ug/L		10/03/22 12:00	5	1.0	10/04/22 11:23	JMW	EPA 6020A
Total Metals - PIA									
Iron	4600	ug/L		10/04/22 09:47	5	10	10/04/22 15:34	JMW	EPA 6020A
Magnesium	41	mg/L		10/04/22 09:47	5	0.10	10/04/22 15:34	JMW	EPA 6020A
Manganese	290	ug/L		10/04/22 09:47	5	1.0	10/04/22 15:34	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:21	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:21	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:21	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:21	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:21	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:21	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:21	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:21	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:21	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:21	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:21	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:21	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FI05728-07
Name: G547
Matrix: Ground Water - Grab

Sampled: 09/27/22 09:26
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	50	mg/L		10/03/22 15:17	1	26	10/04/22 15:51	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	18	mg/L	Q4	10/04/22 18:27	5	5.0	10/04/22 18:27	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	5.0	mg/L		10/04/22 16:57	1	1.0	10/04/22 16:57	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	160	mg/L		10/04/22 15:09	1	26	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	870	ug/L		10/03/22 12:00	5	10	10/04/22 11:26	JMW	EPA 6020A
Magnesium, Dissolved	3.9	mg/L		10/03/22 12:00	5	0.10	10/04/22 11:26	JMW	EPA 6020A
Manganese, Dissolved	8.0	ug/L		10/03/22 12:00	5	1.0	10/04/22 11:26	JMW	EPA 6020A
Total Metals - PIA									
Iron	1200	ug/L		10/04/22 09:47	5	10	10/04/22 15:38	JMW	EPA 6020A
Magnesium	4.0	mg/L		10/04/22 09:47	5	0.10	10/04/22 15:38	JMW	EPA 6020A
Manganese	9.5	ug/L		10/04/22 09:47	5	1.0	10/04/22 15:38	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	1.4	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:49	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:49	SEB	EPA 8260B
1,2-Dichloroethane	4.3	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:49	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:49	SEB	EPA 8260B
Benzene	60	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:49	SEB	EPA 8260B
cis-1,2-Dichloroethene	72	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:49	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:49	SEB	EPA 8260B
trans-1,2-Dichloroethene	8.3	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:49	SEB	EPA 8260B
Methylene chloride	6.4	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:49	SEB	EPA 8260B
Tetrachloroethene	35	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:49	SEB	EPA 8260B
Trichloroethene	210	ug/L		10/06/22 14:28	5	5.0	10/06/22 17:50	SEB	EPA 8260B
Vinyl chloride	15	ug/L		10/03/22 08:10	1	1.0	10/03/22 17:49	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FI05728-08
Name: G564
Matrix: Ground Water - Grab

Sampled: 09/27/22 09:42
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	1600	mg/L		10/03/22 15:17	1	26	10/04/22 15:51	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	5.4	mg/L		10/04/22 18:46	1	1.0	10/04/22 18:46	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	570	mg/L		10/04/22 19:22	100	100	10/04/22 19:22	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1700	mg/L		10/04/22 15:09	1	26	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	11000	ug/L		10/03/22 12:00	5	10	10/04/22 11:30	JMW	EPA 6020A
Magnesium, Dissolved	140	mg/L		10/03/22 12:00	5	0.10	10/04/22 11:30	JMW	EPA 6020A
Manganese, Dissolved	380	ug/L		10/03/22 12:00	5	1.0	10/04/22 11:30	JMW	EPA 6020A
Total Metals - PIA									
Iron	12000	ug/L		10/04/22 09:47	5	10	10/04/22 15:41	JMW	EPA 6020A
Magnesium	140	mg/L		10/04/22 09:47	5	0.10	10/04/22 15:41	JMW	EPA 6020A
Manganese	400	ug/L		10/04/22 09:47	5	1.0	10/04/22 15:41	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:17	SEB	EPA 8260B
1,1-Dichloroethene	3.9	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:17	SEB	EPA 8260B
1,2-Dichloroethane	1.3	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:17	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:17	SEB	EPA 8260B
Benzene	8.5	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:17	SEB	EPA 8260B
cis-1,2-Dichloroethene	1100	ug/L	E	10/03/22 08:10	10	10	10/06/22 16:57	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:17	SEB	EPA 8260B
trans-1,2-Dichloroethene	13	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:17	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:17	SEB	EPA 8260B
Tetrachloroethene	9.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:17	SEB	EPA 8260B
Trichloroethene	2.5	ug/L		10/06/22 14:28	1	1.0	10/06/22 16:31	SEB	EPA 8260B
Vinyl chloride	89	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:17	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FI05728-09
Name: G570
Matrix: Ground Water - Grab

Sampled: 09/27/22 11:07
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	1800	mg/L		10/03/22 15:17	1	26	10/04/22 15:51	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	5.5	mg/L		10/04/22 19:58	5	5.0	10/04/22 19:58	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	710	mg/L		10/04/22 20:16	100	100	10/04/22 20:16	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1900	mg/L		10/04/22 15:09	1	26	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	12000	ug/L		10/03/22 12:00	5	10	10/04/22 11:48	JMW	EPA 6020A
Magnesium, Dissolved	180	mg/L		10/03/22 12:00	5	0.10	10/04/22 11:48	JMW	EPA 6020A
Manganese, Dissolved	180	ug/L		10/03/22 12:00	5	1.0	10/04/22 11:48	JMW	EPA 6020A
Total Metals - PIA									
Iron	11000	ug/L		10/04/22 09:47	5	10	10/04/22 15:45	JMW	EPA 6020A
Magnesium	190	mg/L		10/04/22 09:47	5	0.10	10/04/22 15:45	JMW	EPA 6020A
Manganese	180	ug/L		10/04/22 09:47	5	1.0	10/04/22 15:45	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:45	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:45	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:45	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:45	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:45	SEB	EPA 8260B
cis-1,2-Dichloroethene	3.3	ug/L		10/06/22 14:28	1	1.0	10/06/22 16:04	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:45	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:45	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:45	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:45	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:45	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 18:45	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FI05728-10
Name: G575
Matrix: Ground Water - Grab

Sampled: 09/27/22 09:55
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	560	mg/L		10/03/22 15:17	1	26	10/04/22 15:51	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	6.9	mg/L		10/04/22 20:34	1	1.0	10/04/22 20:34	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	47	mg/L		10/04/22 20:52	10	10	10/04/22 20:52	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	630	mg/L		10/04/22 15:09	1	26	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	6400	ug/L		10/03/22 12:00	5	10	10/04/22 11:52	JMW	EPA 6020A
Magnesium, Dissolved	63	mg/L		10/03/22 12:00	5	0.10	10/04/22 11:52	JMW	EPA 6020A
Manganese, Dissolved	33	ug/L		10/03/22 12:00	5	1.0	10/04/22 11:52	JMW	EPA 6020A
Total Metals - PIA									
Iron	8500	ug/L		10/04/22 09:47	5	10	10/04/22 15:49	JMW	EPA 6020A
Magnesium	65	mg/L		10/04/22 09:47	5	0.10	10/04/22 15:49	JMW	EPA 6020A
Manganese	42	ug/L		10/04/22 09:47	5	1.0	10/04/22 15:49	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	19	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:14	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:14	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:14	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:14	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:14	SEB	EPA 8260B
cis-1,2-Dichloroethene	1.1	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:14	SEB	EPA 8260B
Chloroform	1.1	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:14	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:14	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:14	SEB	EPA 8260B
Tetrachloroethene	3.1	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:14	SEB	EPA 8260B
Trichloroethene	1.6	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:14	SEB	EPA 8260B
Vinyl chloride	1.6	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:14	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FI05728-11
Name: G591
Matrix: Ground Water - Grab

Sampled: 09/27/22 10:16
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	500	mg/L		10/03/22 15:17	1	26	10/04/22 15:51	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	31	mg/L		10/04/22 22:04	10	10	10/04/22 22:04	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	37	mg/L		10/04/22 22:04	10	10	10/04/22 22:04	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	570	mg/L		10/04/22 15:09	1	26	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	8100	ug/L		10/03/22 12:00	5	10	10/04/22 11:56	JMW	EPA 6020A
Magnesium, Dissolved	65	mg/L		10/03/22 12:00	5	0.10	10/04/22 11:56	JMW	EPA 6020A
Manganese, Dissolved	740	ug/L		10/03/22 12:00	5	1.0	10/04/22 11:56	JMW	EPA 6020A
Total Metals - PIA									
Iron	8900	ug/L		10/04/22 09:47	5	10	10/04/22 15:52	JMW	EPA 6020A
Magnesium	69	mg/L		10/04/22 09:47	5	0.10	10/04/22 15:52	JMW	EPA 6020A
Manganese	870	ug/L		10/04/22 09:47	5	1.0	10/04/22 15:52	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	39	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:42	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:42	SEB	EPA 8260B
1,2-Dichloroethane	4.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:42	SEB	EPA 8260B
1,2-Dichloropropane	10	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:42	SEB	EPA 8260B
Benzene	120	ug/L		10/06/22 14:28	5	5.0	10/06/22 18:17	SEB	EPA 8260B
cis-1,2-Dichloroethene	10	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:42	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:42	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:42	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:42	SEB	EPA 8260B
Tetrachloroethene	1.4	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:42	SEB	EPA 8260B
Trichloroethene	2.1	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:42	SEB	EPA 8260B
Vinyl chloride	6.4	ug/L		10/03/22 08:10	1	1.0	10/03/22 19:42	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FI05728-12
Name: G592
Matrix: Ground Water - Grab

Sampled: 09/27/22 10:26
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	600	mg/L		10/03/22 15:17	1	26	10/04/22 15:51	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	7.6	mg/L		10/04/22 22:23	1	1.0	10/04/22 22:23	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	53	mg/L		10/04/22 22:41	10	10	10/04/22 22:41	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	610	mg/L		10/04/22 15:09	1	26	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	100	ug/L		10/03/22 12:00	5	10	10/04/22 11:59	JMW	EPA 6020A
Magnesium, Dissolved	63	mg/L		10/03/22 12:00	5	0.10	10/04/22 11:59	JMW	EPA 6020A
Manganese, Dissolved	3.1	ug/L		10/03/22 12:00	5	1.0	10/04/22 11:59	JMW	EPA 6020A
Total Metals - PIA									
Iron	150	ug/L		10/04/22 09:47	5	10	10/04/22 15:56	JMW	EPA 6020A
Magnesium	66	mg/L		10/04/22 09:47	5	0.10	10/04/22 15:56	JMW	EPA 6020A
Manganese	3.1	ug/L		10/04/22 09:47	5	1.0	10/04/22 15:56	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	45	ug/L		10/03/22 08:10	1	1.0	10/03/22 20:10	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 20:10	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 20:10	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 20:10	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 20:10	SEB	EPA 8260B
cis-1,2-Dichloroethene	3.2	ug/L		10/03/22 08:10	1	1.0	10/03/22 20:10	SEB	EPA 8260B
Chloroform	1.8	ug/L		10/03/22 08:10	1	1.0	10/03/22 20:10	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 20:10	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/03/22 08:10	1	1.0	10/03/22 20:10	SEB	EPA 8260B
Tetrachloroethene	24	ug/L		10/03/22 08:10	1	1.0	10/03/22 20:10	SEB	EPA 8260B
Trichloroethene	3.8	ug/L		10/03/22 08:10	1	1.0	10/03/22 20:10	SEB	EPA 8260B
Vinyl chloride	3.1	ug/L		10/03/22 08:10	1	1.0	10/03/22 20:10	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FI05728-13
Name: G594
Matrix: Ground Water - Grab

Sampled: 09/27/22 10:05
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	440	mg/L		10/03/22 15:17	1	26	10/04/22 15:51	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	21	mg/L		10/04/22 22:59	10	10	10/04/22 22:59	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	29	mg/L		10/04/22 22:59	10	10	10/04/22 22:59	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	540	mg/L		10/04/22 15:09	1	26	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	1800	ug/L		10/03/22 12:00	5	10	10/04/22 12:03	JMW	EPA 6020A
Magnesium, Dissolved	50	mg/L		10/03/22 12:00	5	0.10	10/04/22 12:03	JMW	EPA 6020A
Manganese, Dissolved	30	ug/L		10/03/22 12:00	5	1.0	10/04/22 12:03	JMW	EPA 6020A
Total Metals - PIA									
Iron	2900	ug/L		10/04/22 09:47	5	10	10/04/22 16:00	JMW	EPA 6020A
Magnesium	53	mg/L		10/04/22 09:47	5	0.10	10/04/22 16:00	JMW	EPA 6020A
Manganese	63	ug/L		10/04/22 09:47	5	1.0	10/04/22 16:00	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	2.1	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:20	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:20	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:20	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:20	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:20	SEB	EPA 8260B
cis-1,2-Dichloroethene	44	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:20	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:20	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:20	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:20	SEB	EPA 8260B
Tetrachloroethene	2.3	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:20	SEB	EPA 8260B
Trichloroethene	4.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:20	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:20	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FI05728-14
Name: G600
Matrix: Ground Water - Grab

Sampled: 09/27/22 10:37
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	900	mg/L		10/03/22 15:17	1	26	10/04/22 15:51	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	6.9	mg/L		10/04/22 23:17	1	1.0	10/04/22 23:17	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	60	mg/L		10/04/22 23:35	10	10	10/04/22 23:35	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	530	mg/L		10/04/22 15:09	1	51	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	69000	ug/L		10/03/22 12:00	5	10	10/04/22 12:07	JMW	EPA 6020A
Magnesium, Dissolved	61	mg/L		10/03/22 12:00	5	0.10	10/04/22 12:07	JMW	EPA 6020A
Manganese, Dissolved	950	ug/L		10/03/22 12:00	5	1.0	10/04/22 12:07	JMW	EPA 6020A
Total Metals - PIA									
Iron	150000	ug/L		10/04/22 09:47	5	10	10/04/22 16:03	JMW	EPA 6020A
Magnesium	64	mg/L		10/04/22 09:47	5	0.10	10/04/22 16:03	JMW	EPA 6020A
Manganese	1400	ug/L		10/04/22 09:47	5	1.0	10/04/22 16:03	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	13	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:46	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:46	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:46	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:46	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:46	SEB	EPA 8260B
cis-1,2-Dichloroethene	210	ug/L	E, Q4	10/05/22 09:03	1	1.0	10/05/22 16:46	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:46	SEB	EPA 8260B
trans-1,2-Dichloroethene	2.4	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:46	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:46	SEB	EPA 8260B
Tetrachloroethene	23	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:46	SEB	EPA 8260B
Trichloroethene	59	ug/L		10/05/22 09:03	1	1.0	10/05/22 16:46	SEB	EPA 8260B
Vinyl chloride	21	ug/L	Q1	10/05/22 09:03	1	1.0	10/05/22 16:46	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FI05728-15
Name: S501
Matrix: Surface Water - Grab

Sampled: 09/27/22 11:35
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	1700	mg/L		10/03/22 15:17	1	26	10/04/22 15:51	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	5.9	mg/L		10/06/22 03:18	1	1.0	10/06/22 03:18	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	940	mg/L		10/13/22 00:56	250	250	10/13/22 00:56	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1700	mg/L		10/04/22 15:09	1	26	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	51	ug/L		10/03/22 12:00	5	10	10/04/22 12:10	JMW	EPA 6020A
Magnesium, Dissolved	190	mg/L		10/03/22 12:00	5	0.10	10/04/22 12:10	JMW	EPA 6020A
Manganese, Dissolved	300	ug/L		10/03/22 12:00	5	1.0	10/04/22 12:10	JMW	EPA 6020A
Total Metals - PIA									
Iron	72	ug/L		10/04/22 09:47	5	10	10/04/22 16:18	JMW	EPA 6020A
Magnesium	190	mg/L		10/04/22 09:47	5	0.10	10/04/22 16:18	JMW	EPA 6020A
Manganese	290	ug/L		10/04/22 09:47	5	1.0	10/04/22 16:18	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:06	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:06	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:06	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:06	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:06	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:06	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:06	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:06	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:06	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:06	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:06	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:06	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FI05728-16
Name: S502
Matrix: Surface Water - Grab

Sampled: 09/27/22 12:00
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	1700	mg/L		10/03/22 15:17	1	26	10/04/22 15:51	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	5.9	mg/L		10/06/22 03:56	1	1.0	10/06/22 03:56	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	970	mg/L		10/06/22 04:14	100	100	10/06/22 04:14	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1600	mg/L		10/04/22 15:09	1	34	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	32	ug/L		10/03/22 12:00	5	10	10/04/22 12:14	JMW	EPA 6020A
Magnesium, Dissolved	190	mg/L		10/03/22 12:00	5	0.10	10/04/22 12:14	JMW	EPA 6020A
Manganese, Dissolved	420	ug/L		10/03/22 12:00	5	1.0	10/04/22 12:14	JMW	EPA 6020A
Total Metals - PIA									
Iron	59	ug/L		10/04/22 09:47	5	10	10/04/22 16:22	JMW	EPA 6020A
Magnesium	200	mg/L		10/04/22 09:47	5	0.10	10/04/22 16:22	JMW	EPA 6020A
Manganese	430	ug/L		10/04/22 09:47	5	1.0	10/04/22 16:22	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:32	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:32	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:32	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:32	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:32	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:32	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:32	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:32	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:32	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:32	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:32	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:32	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FI05728-17
Name: FIELD BLANK 1
Matrix: Surface Water - Grab

Sampled: 09/27/22 10:20
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	< 17	mg/L	H	10/05/22 16:35	1	17	10/05/22 16:49	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	< 1.0	mg/L		10/06/22 04:33	1	1.0	10/06/22 04:33	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	< 1.0	mg/L		10/06/22 04:33	1	1.0	10/06/22 04:33	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	27	mg/L		10/04/22 15:09	1	17	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	< 10	ug/L		10/03/22 12:00	5	10	10/04/22 12:18	JMW	EPA 6020A
Magnesium, Dissolved	< 0.10	mg/L		10/03/22 12:00	5	0.10	10/04/22 12:18	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		10/03/22 12:00	5	1.0	10/04/22 12:18	JMW	EPA 6020A
Total Metals - PIA									
Iron	< 10	ug/L		10/05/22 09:04	5	10	10/06/22 17:31	JMW	EPA 6020A
Magnesium	< 0.10	mg/L		10/05/22 09:04	5	0.10	10/06/22 11:02	JMW	EPA 6020A
Manganese	< 1.0	ug/L		10/05/22 09:04	5	1.0	10/06/22 11:02	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:59	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:59	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:59	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:59	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:59	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:59	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:59	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:59	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:59	SEB	EPA 8260B
Tetrachloroethene	1.5	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:59	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:59	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 18:59	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FI05728-18
Name: EQUIPMENT BLANK
Matrix: Surface Water - Grab

Sampled: 09/27/22 14:00
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	< 17	mg/L	H	10/05/22 16:35	1	17	10/05/22 16:49	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	< 1.0	mg/L		10/06/22 05:30	1	1.0	10/06/22 05:30	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	< 1.0	mg/L		10/06/22 05:30	1	1.0	10/06/22 05:30	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	23	mg/L		10/04/22 15:09	1	17	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	11	ug/L		10/03/22 12:00	5	10	10/04/22 12:21	JMW	EPA 6020A
Magnesium, Dissolved	< 0.10	mg/L		10/03/22 12:00	5	0.10	10/04/22 12:21	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		10/03/22 12:00	5	1.0	10/04/22 12:21	JMW	EPA 6020A
Total Metals - PIA									
Iron	< 10	ug/L		10/05/22 09:04	5	10	10/06/22 17:35	JMW	EPA 6020A
Magnesium	< 0.10	mg/L		10/05/22 09:04	5	0.10	10/06/22 11:05	JMW	EPA 6020A
Manganese	< 1.0	ug/L		10/05/22 09:04	5	1.0	10/06/22 11:05	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:25	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:25	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:25	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:25	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:25	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:25	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:25	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:25	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:25	SEB	EPA 8260B
Tetrachloroethene	3.3	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:25	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:25	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:25	SEB	EPA 8260B

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ANALYTICAL RESULTS

Sample: FI05728-19
Name: TRIP BLANK
Matrix: Surface Water - Grab

Sampled: 09/27/22 15:00
Received: 09/30/22 09:23

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
General Chemistry - PIA									
Solids - total solids (TS)	30	mg/L	H	10/05/22 16:35	1	17	10/05/22 16:49	HRF	SM 2540B 1991
Soluble Anions - PIA									
Chloride, Dissolved	< 1.0	mg/L		10/06/22 05:49	1	1.0	10/06/22 05:49	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	< 1.0	mg/L		10/06/22 05:49	1	1.0	10/06/22 05:49	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	< 17	mg/L		10/04/22 15:09	1	17	10/04/22 17:40	HRF	SM 2540C
Soluble Metals - PIA									
Iron, Dissolved	< 10	ug/L		10/03/22 12:00	5	10	10/04/22 12:50	JMW	EPA 6020A
Magnesium, Dissolved	< 0.10	mg/L		10/03/22 12:00	5	0.10	10/04/22 12:50	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		10/03/22 12:00	5	1.0	10/04/22 12:50	JMW	EPA 6020A
Total Metals - PIA									
Iron	< 10	ug/L		10/05/22 09:04	5	10	10/06/22 17:38	JMW	EPA 6020A
Magnesium	< 0.10	mg/L		10/05/22 09:04	5	0.10	10/06/22 11:09	JMW	EPA 6020A
Manganese	< 1.0	ug/L		10/05/22 09:04	5	1.0	10/06/22 11:09	JMW	EPA 6020A
Volatile Organics - PIA									
1,1-Dichloroethane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:52	SEB	EPA 8260B
1,1-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:52	SEB	EPA 8260B
1,2-Dichloroethane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:52	SEB	EPA 8260B
1,2-Dichloropropane	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:52	SEB	EPA 8260B
Benzene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:52	SEB	EPA 8260B
cis-1,2-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:52	SEB	EPA 8260B
Chloroform	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:52	SEB	EPA 8260B
trans-1,2-Dichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:52	SEB	EPA 8260B
Methylene chloride	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:52	SEB	EPA 8260B
Tetrachloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:52	SEB	EPA 8260B
Trichloroethene	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:52	SEB	EPA 8260B
Vinyl chloride	< 1.0	ug/L		10/05/22 09:03	1	1.0	10/05/22 19:52	SEB	EPA 8260B

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NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050
TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615
TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)
Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)
Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807
USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042
TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389
TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050
Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Qualifiers

E	Estimated - concentration exceeds the instrument calibration range.
H	Test performed after the expiration of the appropriate regulatory/advisory maximum allowable hold time.
Q1	Matrix Spike failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
Q2	Matrix Spike Duplicate failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
Q3	Matrix Spike/Matrix Spike Duplicate both failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
Q4	The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.

Gail J Schindler

Certified by: Gail Schindler, Project Manager

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REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED IL

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT	PROJECT NUMBER	PROJECT LOCATION	PURCHASE ORDER #
US ECOLOGY	LTSP - Fall Environmental Sampling	Sheffield	—
ADDRESS PO BOX 206	**PHONE NUMBER** 815-454-2342	**E-MAIL**	**DATE SHIPPED** 9-28-22
CITY SHEFFIELD **STATE** IL **ZIP** 61361	**SAMPLER (PLEASE PRINT)** Shawn Long / Nathan Long		**MATRIX TYPES:** WW- WASTEWATER, DW- DRINKING WATER, GW- GROUND WATER, WWSL- SLUDGE, NAS- NON AQUEOUS SOLID, LCHT-LEACHATE, OIL-OIL, SO-SOIL, SOL-SOLID
CONTACT PERSON DOUG LONG	**SAMPLER'S SIGNATURE** Shawn Long / Nathan Long		

3 ANALYSIS REQUESTED

4 (FOR LAB USE ONLY)
LOGIN # F105728
LOGGED BY:
CLIENT: US ECOLOGY - SHEFFIELD
PROJECT: USE LTSP
PROJ. MGR.: GAIL SCHINDLER

2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	SAMPLE TYPE COMP	MATRIX TYPE	BOTTLE COUNT	PRES CODE (CLIENT PROVIDED)	CL*, SO4*, TDS*, TS	FE**, MG**, MN**	VOA				REMARKS
G160	9-27-22	0915	X		GW	7	1,3,6	X	X	X				*DISSOLVED
G162		0905	X		GW	7	1,3,6	X	X	X				** TOTAL & DISSOLVED
G165		0845	X		GW	7	1,3,6	X	X	X				
G166		0852	X		GW	7	1,3,6	X	X	X				
G168		0830	X		GW	7	1,3,6	X	X	X				
G211		1057	X		GW	7	1,3,6	X	X	X				
G547		0926	X		GW	7	1,3,6	X	X	X				
G564		0942	X		GW	7	1,3,6	X	X	X				
G570		1107	X		GW	7	1,3,6	X	X	X				

CHEMICAL PRESERVATION CODES: 1 – HCL | 2 – H2SO4 | 3 – HNO3 | 4 – NAOH | 5 – NA2S2O3 | 6 – UNPRESERVED | 7 – OTHER

5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH
(RUSH TAT IS SUBJECT TO PACE LABS APPROVAL AND SURCHARGE)
DATE RESULTS NEEDED
RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE
EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:

6 *I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities.*
PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS) _____

7 RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
Shawn Long	9-27-22	1530	Nathan Long	9-28-22	0830
Nathan Long	9-28-22	9:23			
				9-28-22	9:23

8 COMMENTS: (FOR LAB USE ONLY)

SAMPLE TEMPERATURE UPON RECEIPT 5.5 °C
CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N
SAMPLE(S) RECEIVED ON ICE Y OR N
SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED Y OR N
DATE AND TIME TAKEN FROM SAMPLE BOTTLE

1 **CLIENT**: Client's company name
ADDRESS: Client's mailing address
CITY, STATE, ZIP: Client's city, state and zip code for mailing
CONTACT PERSON: Person to receive results
PROJECT NUMBER: Client's reference to the project or work involved with these samples
PROJECT LOCATION: Client's location of project
PURCHASE ORDER NUMBER: Client's invoicing information
MEANS SHIPPED: UPS, FedEx, USPS, courier, hand carried, etc.
PHONE NUMBER: Client's phone number (please include area code)
E-MAIL: Client's e-mail address where results are to be sent
DATE SHIPPED: Month, date and year samples were shipped or delivered to the lab
SAMPLER: Printed name of sample collector
SAMPLER'S SIGNATURE: Signature of sample collector
REGULATORY PROGRAM: Circle regulatory program if applicable.
STATE WHERE SAMPLES COLLECTED: Enter the state if different from client address

2 **SAMPLE DESCRIPTION**: The unique sample description you want to appear on the analytical report
DATE COLLECTED: Date sample was collected. For composite samples, this is typically the date when the last aliquot was added
TIME COLLECTED: Time sample was collected. For composite samples, this is typically the time when the last aliquot was added
SAMPLE TYPE: Place an check mark in the box marked "GRAB" if the sample was collected at one time from one specific location. Place an check mark in the box marked "COMP" if the sample is a composite of samples collected at one or more times or locations and combined to make one sample
MATRIX TYPE: From field above. If "OTHER" please identify
BOTLE COUNT: Total number of containers submitted for the samples
PRESERVATION CODE: Indicate bottle preservative using the codes on the front of the COC for non-Pace bottles, client provided

3 **ANALYSIS REQUESTED**: Write the analysis name (or an abbreviation), the name of a group of tests, or the method number you would like us to perform. Examples are BOD, TCLP Metals, PCBs, Method 624, etc. Place a check mark in the small boxes that correspond to the sample(s) on which you want these tests performed.

REMARKS: List special instructions about the sample here. This space can also be used for listing additional analyses, or to request an extra copy of the report to be sent to an alternate person/address.

4 To be completed by laboratory personnel

5 **TURNAROUND TIME REQUESTED**: Circle "NORMAL" if you want routine 10 working day TAT. If faster results are needed circle "RUSH" and, if possible, call the lab in advance to schedule this work. Surcharges may apply for non-routine.
RUSH RESULTS VIA: Choose method by which you would like to receive the RUSH results by circling either "PHONE" or E-MAIL". List the appropriate number/e-mail if different from that listed in section 1.

6 Place your initials on the line to give the lab permission to proceed with analysis without calling you regarding a sample nonconformance. If the sample does not meet the Sample Acceptance Policy requirements then the appropriate case narrative and/or data qualifiers will be added to the corresponding analysis and may not be acceptable to use for regulatory purposes. Contact your project manager for further information or to obtain a copy of the Sample Acceptance Policy.

Summarized Sample Acceptance Policy Requirements:

- Proper, full and completed chain-of-custody documentation
- Readable unique sample container identification written in indelible ink
- Appropriate sample container
- Sufficient sample volume to perform requested tests
- Received within required holding time
- Received within temperature preservation requirements
- Sample containers received in good condition (not leaking or broken)
- Any custody seal intact
- Properly preserved, and
- No headspace in volatile water samples

A data qualifier and/or case narrative will be added to the final test report when the above sample acceptance requirements are not met. A Sample Acceptance Nonconformance Report (SANR) may be attached to the COC depending on the receiving facility's Sample Acceptance Policy.

7 **RELINQUISHED BY/RECEIVED BY:** This form must be signed each time the sample(s) changes hands. Chain-of-Custody seals are available upon request if needed.

8 To be completed by laboratory personnel.

Sample Acceptance Policy – Receiving facility's specific policy available from your project manager.

SERVING YOU IN THE FOLLOWING LOCATIONS

2231 W Altorfer Dr
Peoria, IL 61615
309-692-9688

944 Anglum Rd
Hazelwood, MO 63042
314-432-0550

1805 W Sunset St.
Springfield, MO 65807
417-964-8924

4314-A Crystal Lake Rd
McHenry, IL 60050
815-344-4044

Thank you for using Pace Analytical Services.
Please call 800-752-6651 if you have any questions about completing this form.

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REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED IL

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT: US ECOLOGY

ADDRESS: PO BOX 206

CITY / STATE / ZIP: SHEFFIELD IL 61361

CONTACT PERSON: DOUG LONG

PROJECT NUMBER: LTSP- Full environmental Sampling

PROJECT LOCATION: Sheffield

PURCHASE ORDER #: —

PHONE NUMBER: 815-454-2342

E-MAIL:

DATE SHIPPED: 9-28-22

SAMPLER (PLEASE PRINT): Shawn Long / Nathan Long

SAMPLER'S SIGNATURE: Shawn Long / Nathan Long

MATRIX TYPES:
WW- WASTEWATER
DW- DRINKING WATER
GW- GROUND WATER
WWSL- SLUDGE
NAS- NON AQUEOUS SOLID
LCHT-LEACHATE
OIL-OIL
SO-SOIL
SOL-SOLID

3 ANALYSIS REQUESTED

4 (FOR LAB USE ONLY)

LOGIN # _____

LOGGED BY: _____

CLIENT: US ECOLOGY - SHEFFIELD

PROJECT: USE LTSP

PROJ. MGR.: GAIL SCHINDLER

2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	SAMPLE TYPE COMP	MATRIX TYPE	BOTTLE COUNT	PRES CODE (CLIENT PROVIDED)	CL*, SO4*, TDS*, TS	FE**, MG**, MN**	VOA					REMARKS
G575	9-27-22	0955	X		GW	7	1,3,6	X	X	X					*DISSOLVED
G591		1016	X		GW	7	1,3,6	X	X	X					** TOTAL & DISSOLVED
G592		1026	X		GW	7	1,3,6	X	X	X					
G594		1005	X		GW	7	1,3,6	X	X	X					
G600		1037	X		GW	7	1,3,6	X	X	X					NOT Enough water To Fill Bottles Full.
S501		1135	X		SW	7	1,3,6	X	X	X					
S502		1200	X		SW	7	1,3,6	X	X	X					
FIELD BLANK 1		1020	X		DI	7	1,3,6	X	X	X					
~~FIELD BLANK 2~~ No Sample	—	—	X	—	DI	7	1,3,6	X	X	X					—

CHEMICAL PRESERVATION CODES: 1 – HCL | 2 – H2SO4 | 3 – HNO3 | 4 – NAOH | 5 – NA2S2O3 | 6 – UNPRESERVED | 7 – OTHER

5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH
(RUSH TAT IS SUBJECT TO PACE LABS APPROVAL AND SURCHARGE)

RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE

EMAIL IF DIFFERENT FROM ABOVE:

PHONE # IF DIFFERENT FROM ABOVE:

DATE RESULTS NEEDED

6 *I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities.*

PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS) _____

7	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
RELINQUISHED BY: (SIGNATURE) Shawn Long	9-27-22	1530	Nathan Long	9-28-22	0830
RELINQUISHED BY: (SIGNATURE)	9-28-22	9:23	RECEIVED BY: (SIGNATURE)		
RELINQUISHED BY: (SIGNATURE)			RECEIVED BY: (SIGNATURE)	9-28-22	9:23

8 COMMENTS: (FOR LAB USE ONLY)

SAMPLE TEMPERATURE UPON RECEIPT 5.5 °C

CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N

SAMPLE(S) RECEIVED ON ICE Y OR N

SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED Y OR N

DATE AND TIME TAKEN FROM SAMPLE BOTTLE

Qualtrax ID #3219

1 **CLIENT**: Client's company name
ADDRESS: Client's mailing address
CITY, STATE, ZIP: Client's city, state and zip code for mailing
CONTACT PERSON: Person to receive results
PROJECT NUMBER: Client's reference to the project or work involved with these samples
PROJECT LOCATION: Client's location of project
PURCHASE ORDER NUMBER: Client's invoicing information
MEANS SHIPPED: UPS, FedEx, USPS, courier, hand carried, etc.
PHONE NUMBER: Client's phone number (please include area code)
E-MAIL: Client's e-mail address where results are to be sent
DATE SHIPPED: Month, date and year samples were shipped or delivered to the lab
SAMPLER: Printed name of sample collector
SAMPLER'S SIGNATURE: Signature of sample collector
REGULATORY PROGRAM: Circle regulatory program if applicable.
STATE WHERE SAMPLES COLLECTED: Enter the state if different from client address

2 **SAMPLE DESCRIPTION**: The unique sample description you want to appear on the analytical report
DATE COLLECTED: Date sample was collected. For composite samples, this is typically the date when the last aliquot was added
TIME COLLECTED: Time sample was collected. For composite samples, this is typically the time when the last aliquot was added
SAMPLE TYPE: Place an check mark in the box marked "GRAB" if the sample was collected at one time from one specific location. Place an check mark in the box marked "COMP" if the sample is a composite of samples collected at one or more times or locations and combined to make one sample
MATRIX TYPE: From field above. If "OTHER" please identify
BOTLE COUNT: Total number of containers submitted for the samples
PRESERVATION CODE: Indicate bottle preservative using the codes on the front of the COC for non-Pace bottles, client provided

3 **ANALYSIS REQUESTED**: Write the analysis name (or an abbreviation), the name of a group of tests, or the method number you would like us to perform. Examples are BOD, TCLP Metals, PCBs, Method 624, etc. Place a check mark in the small boxes that correspond to the sample(s) on which you want these tests performed.

REMARKS: List special instructions about the sample here. This space can also be used for listing additional analyses, or to request an extra copy of the report to be sent to an alternate person/address.

4 To be completed by laboratory personnel

5 **TURNAROUND TIME REQUESTED**: Circle "NORMAL" if you want routine 10 working day TAT. If faster results are needed circle "RUSH" and, if possible, call the lab in advance to schedule this work. Surcharges may apply for non-routine.
RUSH RESULTS VIA: Choose method by which you would like to receive the RUSH results by circling either "PHONE" or E-MAIL". List the appropriate number/e-mail if different from that listed in section 1.

6 Place your initials on the line to give the lab permission to proceed with analysis without calling you regarding a sample nonconformance. If the sample does not meet the Sample Acceptance Policy requirements then the appropriate case narrative and/or data qualifiers will be added to the corresponding analysis and may not be acceptable to use for regulatory purposes. Contact your project manager for further information or to obtain a copy of the Sample Acceptance Policy.

Summarized Sample Acceptance Policy Requirements:

- Proper, full and completed chain-of-custody documentation
- Readable unique sample container identification written in indelible ink
- Appropriate sample container
- Sufficient sample volume to perform requested tests
- Received within required holding time
- Received within temperature preservation requirements
- Sample containers received in good condition (not leaking or broken)
- Any custody seal intact
- Properly preserved, and
- No headspace in volatile water samples

A data qualifier and/or case narrative will be added to the final test report when the above sample acceptance requirements are not met. A Sample Acceptance Nonconformance Report (SANR) may be attached to the COC depending on the receiving facility's Sample Acceptance Policy.

7 **RELINQUISHED BY/RECEIVED BY:** This form must be signed each time the sample(s) changes hands. Chain-of-Custody seals are available upon request if needed.

8 To be completed by laboratory personnel.

Sample Acceptance Policy – Receiving facility's specific policy available from your project manager.

SERVING YOU IN THE FOLLOWING LOCATIONS

2231 W Altorfer Dr
Peoria, IL 61615
309-692-9688

944 Anglum Rd
Hazelwood, MO 63042
314-432-0550

1805 W Sunset St.
Springfield, MO 65807
417-964-8924

4314-A Crystal Lake Rd
McHenry, IL 60050
815-344-4044

Thank you for using Pace Analytical Services.
Please call 800-752-6651 if you have any questions about completing this form.

PACE ANALYTICAL SERVICES
WWW.PACELABS.COM

REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED IL

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT	PROJECT NUMBER	PROJECT LOCATION	PURCHASE ORDER #
US ECOLOGY	LTSP - Full Environmental Sampling	Sheffield	—
ADDRESS: PO BOX 206	PHONE NUMBER: 815-454-2342	E-MAIL	DATE SHIPPED: 9-28-22
CITY / STATE / ZIP: SHEFFIELD IL 61361	SAMPLER (PLEASE PRINT): Shawn Long / Nathan Long		MATRIX TYPES: WW- WASTEWATER, DW- DRINKING WATER, GW- GROUND WATER, WWSL- SLUDGE, NAS- NON AQUEOUS SOLID, LCHT-LEACHATE, OIL-OIL, SO-SOIL, SOL-SOLID
CONTACT PERSON: DOUG LONG	SAMPLER'S SIGNATURE: Shawn Long / Nathan Long		

3 ANALYSIS REQUESTED

4 (FOR LAB USE ONLY)

LOGIN # _____

LOGGED BY: _____

CLIENT: US ECOLOGY - SHEFFIELD

PROJECT: USE LTSP

PROJ. MGR.: GAIL SCHINDLER

2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	SAMPLE TYPE COMP	MATRIX TYPE	BOTTLE COUNT	PRES CODE CLIENT PROVIDED	CL*, SO4*, TDS*, TS	FE**, MG**, MN**	VOA					REMARKS
EQUIPMENT BLANK	9-27-22	1400	X		DI	7	1,3,6	X	X	X					*DISSOLVED
TRIP BLANK	9-27-22	1500	X		DI	7	1,3,6	X	X	X					** TOTAL & DISSOLVED

CHEMICAL PRESERVATION CODES: 1 – HCL | 2 – H2SO4 | 3 – HNO3 | 4 – NAOH | 5 – NA2S2O3 | 6 – UNPRESERVED | 7 – OTHER

5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH
(RUSH TAT IS SUBJECT TO PACE LABS APPROVAL AND SURCHARGE)

RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE

EMAIL IF DIFFERENT FROM ABOVE:

PHONE # IF DIFFERENT FROM ABOVE:

DATE RESULTS NEEDED

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PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS) _____

7	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	Shawn Long	9-27-22	1530	Nathan Long	9-28-22	0830
	RELINQUISHED BY: (SIGNATURE)	DATE 9-28-22	TIME 9:23	RECEIVED BY: (SIGNATURE)	DATE	TIME
	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE 9-28-22	TIME 9:23

8 COMMENTS: (FOR LAB USE ONLY)

SAMPLE TEMPERATURE UPON RECEIPT 5.5 °C

CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N
SAMPLE(S) RECEIVED ON ICE Y OR N
SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED Y OR N

DATE AND TIME TAKEN FROM SAMPLE BOTTLE

1 **CLIENT**: Client's company name
ADDRESS: Client's mailing address
CITY, STATE, ZIP: Client's city, state and zip code for mailing
CONTACT PERSON: Person to receive results
PROJECT NUMBER: Client's reference to the project or work involved with these samples
PROJECT LOCATION: Client's location of project
PURCHASE ORDER NUMBER: Client's invoicing information
MEANS SHIPPED: UPS, FedEx, USPS, courier, hand carried, etc.
PHONE NUMBER: Client's phone number (please include area code)
E-MAIL: Client's e-mail address where results are to be sent
DATE SHIPPED: Month, date and year samples were shipped or delivered to the lab
SAMPLER: Printed name of sample collector
SAMPLER'S SIGNATURE: Signature of sample collector
REGULATORY PROGRAM: Circle regulatory program if applicable.
STATE WHERE SAMPLES COLLECTED: Enter the state if different from client address

2 **SAMPLE DESCRIPTION**: The unique sample description you want to appear on the analytical report
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SAMPLE TYPE: Place an check mark in the box marked "GRAB" if the sample was collected at one time from one specific location. Place an check mark in the box marked "COMP" if the sample is a composite of samples collected at one or more times or locations and combined to make one sample
MATRIX TYPE: From field above. If "OTHER" please identify
BOTLE COUNT: Total number of containers submitted for the samples
PRESERVATION CODE: Indicate bottle preservative using the codes on the front of the COC for non-Pace bottles, client provided

3 **ANALYSIS REQUESTED**: Write the analysis name (or an abbreviation), the name of a group of tests, or the method number you would like us to perform. Examples are BOD, TCLP Metals, PCBs, Method 624, etc. Place a check mark in the small boxes that correspond to the sample(s) on which you want these tests performed.

REMARKS: List special instructions about the sample here. This space can also be used for listing additional analyses, or to request an extra copy of the report to be sent to an alternate person/address.

4 To be completed by laboratory personnel

5 **TURNAROUND TIME REQUESTED**: Circle "NORMAL" if you want routine 10 working day TAT. If faster results are needed circle "RUSH" and, if possible, call the lab in advance to schedule this work. Surcharges may apply for non-routine.
RUSH RESULTS VIA: Choose method by which you would like to receive the RUSH results by circling either "PHONE" or E-MAIL". List the appropriate number/e-mail if different from that listed in section 1.

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Summarized Sample Acceptance Policy Requirements:

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- Received within temperature preservation requirements
- Sample containers received in good condition (not leaking or broken)
- Any custody seal intact
- Properly preserved, and
- No headspace in volatile water samples

A data qualifier and/or case narrative will be added to the final test report when the above sample acceptance requirements are not met. A Sample Acceptance Nonconformance Report (SANR) may be attached to the COC depending on the receiving facility's Sample Acceptance Policy.

7 **RELINQUISHED BY/RECEIVED BY:** This form must be signed each time the sample(s) changes hands. Chain-of-Custody seals are available upon request if needed.

8 To be completed by laboratory personnel.

Sample Acceptance Policy – Receiving facility's specific policy available from your project manager.

SERVING YOU IN THE FOLLOWING LOCATIONS

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Peoria, IL 61615
309-692-9688

944 Anglum Rd
Hazelwood, MO 63042
314-432-0550

1805 W Sunset St.
Springfield, MO 65807
417-964-8924

4314-A Crystal Lake Rd
McHenry, IL 60050
815-344-4044

Thank you for using Pace Analytical Services.
Please call 800-752-6651 if you have any questions about completing this form.

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

November 17, 2022

Doug Long
US Ecology, Inc. Sheffield
PO Box 206
Sheffield, IL 61361

RE: US ECOLOGY LTSP

Dear Doug Long:

Please find enclosed the analytical results for the **1** sample(s) the laboratory received on **11/2/22 12:16 pm** and logged in under work order **FK00480**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise . We are always trying to improve our customer service and we welcome you to contact the Director of Client Services, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Gail J Schindler

Gail Schindler
Project Manager
(309) 692-9688 x1716
gail.schindler@pacelabs.com

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order FK00480

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

ANALYTICAL RESULTS

Sample: FK00480-01
Name: G165
Matrix: Ground Water - Grab

Sampled: 11/02/22 10:50
Received: 11/02/22 12:16

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Volatile Organics - PIA									
cis-1,2-Dichloroethene	< 1.0	ug/L		11/08/22 12:28	1	1.0	11/08/22 21:29	MTM	EPA 8260B

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050
TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615
TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)
Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)
Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807
USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042
TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389
TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050
Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Gail J Schindler

Certified by: Gail Schindler, Project Manager

PACE ANALYTICAL SERVICES
WWW.PACELABS.COM

REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED IL

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT: US ECOLOGY

ADDRESS: PO BOX 206

CITY STATE ZIP: SHEFFIELD IL 61361

CONTACT PERSON: DOUG LONG

PROJECT NUMBER:

PROJECT LOCATION: Sheffield

PURCHASE ORDER #:

PHONE NUMBER: 815-454-2342

E-MAIL:

DATE SHIPPED:

SAMPLER (PLEASE PRINT): Shawn Long

SAMPLER'S SIGNATURE: Shawn Long

MATRIX TYPES:
WW- WASTEWATER
DW- DRINKING WATER
GW- GROUND WATER
WWSL- SLUDGE
NAS- NON AQUEOUS SOLID
LCHT-LEACHATE
OIL-OIL
SO-SOIL
SOL-SOLID

3 ANALYSIS REQUESTED

4 (FOR LAB USE ONLY)
LOGIN # FK00480
LOGGED BY: GS
CLIENT: US ECOLOGY - SHEFFIELD
PROJECT: USE LTSP
PROJ. MGR.: GAIL SCHINDLER

2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	SAMPLE TYPE COMP	MATRIX TYPE	BOTTLE COUNT	PRES CODE CLIENT PROVIDED	M8260 cis-1,2-DCE	REMARKS
G165	11/2/2022	1050	X		GW	3	1	X	Please Note: Lab Set 2 Boxs of Vials, Returned with Sample.

CHEMICAL PRESERVATION CODES: 1 – HCL | 2 – H2SO4 | 3 – HNO3 | 4 – NAOH | 5 – NA2S2O3 | 6 – UNPRESERVED | 7 – OTHER

5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH
(RUSH TAT IS SUBJECT TO PACE LABS APPROVAL AND SURCHARGE)

RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE

EMAIL IF DIFFERENT FROM ABOVE:

PHONE # IF DIFFERENT FROM ABOVE:

DATE RESULTS NEEDED:

6 *I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities.*

PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS) _____

7	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	Shawn Long	11-2-22	1100	Nathan Long	11-2-22	1100
	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
		11-2-22	1216			
	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
					11-2-22	12:16

8 COMMENTS: (FOR LAB USE ONLY)

SAMPLE TEMPERATURE UPON RECEIPT 1.4 °C

CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N
SAMPLE(S) RECEIVED ON ICE Y OR N
SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED Y OR N

DATE AND TIME TAKEN FROM SAMPLE BOTTLE

APPENDIX A.2

Fall 2020 Data Summary

February 15, 2023

Environmental VOC Monitoring Data

Boundary Well G160

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Spring 2022	USEPA Region 4
04/26/2022	41.06	Benzene	Non-Detect	Non-Detect	160 ppb
04/26/2022	41.06	Chloroform	Non-Detect	Non-Detect	140 ppb
04/26/2022	41.06	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
04/26/2022	41.06	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/26/2022	41.06	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/26/2022	41.06	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
04/26/2022	41.06	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/26/2022	41.06	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/26/2022	41.06	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/26/2022	41.06	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
04/26/2022	41.06	Trichloroethene	Non-Detect	Non-Detect	220 ppb
04/26/2022	41.06	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Boundary Well G162

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Spring 2022	USEPA Region 4
04/26/2022	29.30	Benzene	Non-Detect	Non-Detect	160 ppb
04/26/2022	29.30	Chloroform	Non-Detect	Non-Detect	140 ppb
04/26/2022	29.30	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
04/26/2022	29.30	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/26/2022	29.30	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/26/2022	29.30	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
04/26/2022	29.30	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/26/2022	29.30	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/26/2022	29.30	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/26/2022	29.30	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
04/26/2022	29.30	Trichloroethene	Non-Detect	Non-Detect	220 ppb
04/26/2022	29.30	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Guard Well G591

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Spring 2022	USEPA Region 4
04/26/2022	41.86	Benzene	360 ppb	160 ppb	160 ppb
04/26/2022	41.86	Chloroform	Non-Detect	Non-Detect	140 ppb
04/26/2022	41.86	1,1 Dichloroethane	14 ppb	26 ppb	410 ppb
04/26/2022	41.86	1,1 Dichloroethene	1.6 ppb	Non-Detect	130 ppb
04/26/2022	41.86	1,2,-Dichloroethane	8.8 ppb	Non-Detect	2000 ppb
04/26/2022	41.86	cis-1,2-Dichloroethene	380 ppb	19 ppb	620 ppb
04/26/2022	41.86	trans-1,2-Dichloroethene	1.5 ppb	Non-Detect	558 ppb
04/26/2022	41.86	1,2-Dichloropropane	2.7ppb	Non-Detect	520 ppb
04/26/2022	41.86	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/26/2022	41.86	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
04/26/2022	41.86	Trichloroethene	3.1 ppb	Non-Detect	220 ppb
04/26/2022	41.86	Vinyl Chloride	310 ppb	21 ppb	930 ppb

Guard Well G592

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Spring 2022	USEPA Region 4
04/26/2022	35.66	Benzene	Non-Detect	Non-Detect	160 ppb
04/26/2022	35.66	Chloroform	2.1 ppb	1.5 ppb	140 ppb
04/26/2022	35.66	1,1 Dichloroethane	53 ppb	43 ppb	410 ppb
04/26/2022	35.66	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/26/2022	35.66	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/26/2022	35.66	cis-1,2-Dichloroethene	3.0 ppb	2.5 ppb	620 ppb
04/26/2022	35.66	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/26/2022	35.66	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/26/2022	35.66	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/26/2022	35.66	Tetrachloroethene	23 ppb	23 ppb	53 ppb
04/26/2022	35.66	Trichloroethene	3.0 ppb	2.5 ppb	220 ppb
04/26/2022	35.66	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Guard Well G600

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Spring 2022	USEPA Region 4
04/26/2022	22.30	Benzene	Non-Detect	Non-Detect	160 ppb
04/26/2022	22.30	Chloroform	Non-Detect	Non-Detect	140 ppb
04/26/2022	22.30	1,1 Dichloroethane	8.5 ppb	Non-Detect	410 ppb
04/26/2022	22.30	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/26/2022	22.30	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/26/2022	22.30	cis-1,2-Dichloroethene	310 ppb	250 ppb	620 ppb
04/26/2022	22.30	trans-1,2-Dichloroethene	3.2 ppb	Non-Detect	558 ppb
04/26/2022	22.30	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/26/2022	22.30	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/26/2022	22.30	Tetrachloroethene	150 ppb	100 ppb	53 ppb
04/26/2022	22.30	Trichloroethene	170 ppb	120 ppb	220 ppb
04/26/2022	22.30	Vinyl Chloride	20 ppb	16 ppb	930 ppb

Plume Well G165

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Spring 2022	USEPA Region 4
04/26/2022	44.66	Benzene	Non-Detect	Non-Detect	160 ppb
04/26/2022	44.66	Chloroform	Non-Detect	Non-Detect	140 ppb
04/26/2022	44.66	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
04/26/2022	44.66	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/26/2022	44.66	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/26/2022	44.66	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
04/26/2022	44.66	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/26/2022	44.66	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/26/2022	44.66	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/26/2022	44.66	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
04/26/2022	44.66	Trichloroethene	Non-Detect	Non-Detect	220 ppb
04/26/2022	44.66	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Plume Well G166

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Spring 2022	USEPA Region 4
04/26/2022	71.41	Benzene	Non-Detect	Non-Detect	160 ppb
04/26/2022	71.41	Chloroform	Non-Detect	Non-Detect	140 ppb
04/26/2022	71.41	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
04/26/2022	71.41	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/26/2022	71.41	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/26/2022	71.41	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
04/26/2022	71.41	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/26/2022	71.41	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/26/2022	71.41	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/26/2022	71.41	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
04/26/2022	71.41	Trichloroethene	Non-Detect	Non-Detect	220 ppb
04/26/2022	71.41	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Plume Well G168

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Spring 2022	USEPA Region 4
04/26/2022	50.30	Benzene	Non-Detect	Non-Detect	160 ppb
04/26/2022	50.30	Chloroform	1.8 ppb	Non-Detect	140 ppb
04/26/2022	50.30	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
04/26/2022	50.30	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/26/2022	50.30	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/26/2022	50.30	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
04/26/2022	50.30	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/26/2022	50.30	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/26/2022	50.30	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/26/2022	50.30	Tetrachloroethene	98 ppb	100 ppb	53 ppb
04/26/2022	50.30	Trichloroethene	3.8 ppb	Non-Detect	220 ppb
04/26/2022	50.30	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Plume Well G547

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Spring 2022	USEPA Region 4
04/26/2022	44.21	Benzene	42 ppb	50 ppb	160 ppb
04/26/2022	44.21	Chloroform	Non-Detect	Non-Detect	140 ppb
04/26/2022	44.21	1,1 Dichloroethane	1.4 ppb	Non-Detect	410 ppb
04/26/2022	44.21	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/26/2022	44.21	1,2,-Dichloroethane	2.8 ppb	Non-Detect	2000 ppb
04/26/2022	44.21	cis-1,2-Dichloroethene	35 ppb	38 ppb	620 ppb
04/26/2022	44.21	trans-1,2-Dichloroethene	5.1 ppb	Non-Detect	558 ppb
04/26/2022	44.21	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/26/2022	44.21	Methylene Chloride	4.6 ppb	Non-Detect	1500 ppb
04/26/2022	44.21	Tetrachloroethene	47 ppb	30 ppb	53 ppb
04/26/2022	44.21	Trichloroethene	97 ppb	78 ppb	220 ppb
04/26/2022	44.21	Vinyl Chloride	7.8 ppb	Non-Detect	930 ppb

Plume Well G564

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Spring 2022	USEPA Region 4
04/26/2022	45.93	Benzene	8.0 ppb	Non-Detect	160 ppb
04/26/2022	45.93	Chloroform	Non-Detect	Non-Detect	140 ppb
04/26/2022	45.93	1,1 Dichloroethane	1.3 ppb	Non-Detect	410 ppb
04/26/2022	45.93	1,1 Dichloroethene	1.4 ppb	Non-Detect	130 ppb
04/26/2022	45.93	1,2,-Dichloroethane	1.8 ppb	Non-Detect	2000 ppb
04/26/2022	45.93	cis-1,2-Dichloroethene	380 ppb	730 ppb	620 ppb
04/26/2022	45.93	trans-1,2-Dichloroethene	6.6 ppb	Non-Detect	558 ppb
04/26/2022	45.93	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/26/2022	45.93	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/26/2022	45.93	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
04/26/2022	45.93	Trichloroethene	Non-Detect	Non-Detect	220 ppb
04/26/2022	45.93	Vinyl Chloride	110 ppb	58 ppb	930 ppb

Plume Well G575

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Spring 2022	USEPA Region 4
04/26/2022	46.52	Benzene	Non-Detect	Non-Detect	160 ppb
04/26/2022	46.52	Chloroform	1.9 ppb	1.7 ppb	140 ppb
04/26/2022	46.52	1,1 Dichloroethane	43 ppb	35 ppb	410 ppb
04/26/2022	46.52	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/27/2021	46.52	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/26/2022	46.52	cis-1,2-Dichloroethene	1.4 ppb	Non-Detect	620 ppb
04/26/2022	46.52	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/26/2022	46.52	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/26/2022	46.52	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/26/2022	46.52	Tetrachloroethene	7.6 ppb	8.3 ppb	53 ppb
04/26/2022	46.52	Trichloroethene	1.7 ppb	1.5 ppb	220 ppb
04/26/2022	46.52	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Plume Well G594

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Spring 2022	USEPA Region 4
04/26/2022	41.71	Benzene	Non-Detect	Non-Detect	160 ppb
04/26/2022	41.71	Chloroform	Non-Detect	Non-Detect	140 ppb
04/26/2022	41.71	1,1 Dichloroethane	1.3 ppb	2.0 ppb	410 ppb
04/26/2022	41.71	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/26/2022	41.71	1,2,-Dichloroethane	Non-Detect	1.4 ppb	2000 ppb
04/26/2022	41.71	cis-1,2-Dichloroethene	25 ppb	62 ppb	620 ppb
04/26/2022	41.71	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/26/2022	41.71	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/26/2022	41.71	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/26/2022	41.71	Tetrachloroethene	2.2 ppb	2.3 ppb	53 ppb
04/26/2022	41.71	Trichloroethene	2.4 ppb	4.0 ppb	220 ppb
04/26/2022	41.71	Vinyl Chloride	Non-Detect	2.3 ppb	930 ppb

(GSI) Shoreline Well G211

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Fall 2022	USEPA Region 4
04/26/2022	42.60	Benzene	Non-Detect	Non-Detect	160 ppb
04/26/2022	42.60	Chloroform	Non-Detect	Non-Detect	140 ppb
04/26/2022	42.60	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
04/26/2022	42.60	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/26/2022	42.60	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/26/2022	42.60	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
04/26/2022	42.60	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/26/2022	42.60	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/26/2022	42.60	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/26/2022	42.60	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
04/26/2022	42.60	Trichloroethene	Non-Detect	Non-Detect	220 ppb
04/26/2022	42.60	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

(GSI) Shoreline Well G570

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Spring 2022	USEPA Region 4
04/26/2022	17.00	Benzene	Non-Detect	Non-Detect	160 ppb
04/26/2022	17.00	Chloroform	Non-Detect	Non-Detect	140 ppb
04/26/2022	17.00	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
04/26/2022	17.00	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/26/2022	17.00	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/26/2022	17.00	cis-1,2-Dichloroethene	4.4 ppb	2.8 ppb	620 ppb
04/26/2022	17.00	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/26/2022	17.00	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/26/2022	17.00	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/26/2022	17.00	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
04/26/2022	17.00	Trichloroethene	1.7 ppb	1.4 ppb	220 ppb
04/26/2022	17.00	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Surface Monitoring Point of Compliance S501

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Spring 2022	USEPA Region 4
04/26/2022	N/A	Benzene	Non-Detect	Non-Detect	160 ppb
04/26/2022	N/A	Chloroform	Non-Detect	Non-Detect	140 ppb
04/26/2022	N/A	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
04/26/2022	N/A	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
04/26/2022	N/A	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
04/26/2022	N/A	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
04/26/2022	N/A	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
04/26/2022	N/A	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
04/26/2022	N/A	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
04/26/2022	N/A	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
04/26/2022	N/A	Trichloroethene	Non-Detect	Non-Detect	220 ppb
04/26/2022	N/A	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Surface Monitoring Point of Compliance S502

Sample Date	Well Screen Depth	Constituent	Concentrations Spring 2021	Concentrations Spring 2022	USEPA Region 4
04/26/2022	N/A	Benzene	No Sample	Non-Detect	160 ppb
04/26/2022	N/A	Chloroform	No Sample	Non-Detect	140 ppb
04/26/2022	N/A	1,1 Dichloroethane	No Sample	Non-Detect	410 ppb
04/26/2022	N/A	1,1 Dichloroethene	No Sample	Non-Detect	130 ppb
04/26/2022	N/A	1,2,-Dichloroethane	No Sample	Non-Detect	2000 ppb
04/26/2022	N/A	cis-1,2-Dichloroethene	2.1 ppb	Non-Detect	620 ppb
04/26/2022	N/A	trans-1,2-Dichloroethene	No Sample	Non-Detect	558 ppb
04/26/2022	N/A	1,2-Dichloropropane	No Sample	Non-Detect	520 ppb
04/26/2022	N/A	Methylene Chloride	No Sample	Non-Detect	1500 ppb
04/26/2022	N/A	Tetrachloroethene	No Sample	Non-Detect	53 ppb
04/26/2022	N/A	Trichloroethene	No Sample	Non-Detect	220 ppb
04/26/2022	N/A	Vinyl Chloride	No Sample	Non-Detect	930 ppb

Environmental VOC Monitoring Data

Boundary Well G160

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2021	Concentrations Fall 2022	USEPA Region 4
9/27/2022	41.06	Benzene	Non-Detect	Non-Detect	160 ppb
9/27/2022	41.06	Chloroform	Non-Detect	Non-Detect	140 ppb
9/27/2022	41.06	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
9/27/2022	41.06	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
9/27/2022	41.06	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
9/27/2022	41.06	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
9/27/2022	41.06	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
9/27/2022	41.06	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
9/27/2022	41.06	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
9/27/2022	41.06	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
9/27/2022	41.06	Trichloroethene	Non-Detect	Non-Detect	220 ppb
9/27/2022	41.06	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Boundary Well G162

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2021	Concentrations Fall 2022	USEPA Region 4
9/27/2022	29.30	Benzene	Non-Detect	Non-Detect	160 ppb
9/27/2022	29.30	Chloroform	Non-Detect	Non-Detect	140 ppb
9/27/2022	29.30	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
9/27/2022	29.30	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
9/27/2022	29.30	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
9/27/2022	29.30	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
9/27/2022	29.30	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
9/27/2022	29.30	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
9/27/2022	29.30	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
9/27/2022	29.30	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
9/27/2022	29.30	Trichloroethene	Non-Detect	Non-Detect	220 ppb
9/27/2022	29.30	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Guard Well G591

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2021	Concentrations Fall 2022	USEPA Region 4
9/27/2022	41.86	Benzene	210 ppb	120 ppb	160 ppb
9/27/2022	41.86	Chloroform	Non-Detect	Non-Detect	140 ppb
9/27/2022	41.86	1,1 Dichloroethane	23 ppb	39 ppb	410 ppb
9/27/2022	41.86	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
9/27/2022	41.86	1,2,-Dichloroethane	6.3 ppb	4.0 ppb	2000 ppb
9/27/2022	41.86	cis-1,2-Dichloroethene	84 ppb	10 ppb	620 ppb
9/27/2022	41.86	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
9/27/2022	41.86	1,2-Dichloropropane	4.2 ppb	10 ppb	520 ppb
9/27/2022	41.86	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
9/27/2022	41.86	Tetrachloroethene	Non-Detect	1.4 ppb	53 ppb
9/27/2022	41.86	Trichloroethene	3.2 ppb	2.1 ppb	220 ppb
9/27/2022	41.86	Vinyl Chloride	95 ppb	6.4 ppb	930 ppb

Guard Well G592

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2021	Concentrations Fall 2022	USEPA Region 4
9/27/2022	35.66	Benzene	Non-Detect	Non-Detect	160 ppb
9/27/2022	35.66	Chloroform	1.6 ppb	1.8 ppb	140 ppb
9/27/2022	35.66	1,1 Dichloroethane	52 ppb	45 ppb	410 ppb
9/27/2022	35.66	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
9/27/2022	35.66	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
9/27/2022	35.66	cis-1,2-Dichloroethene	4.3 ppb	3.2 ppb	620 ppb
9/27/2022	35.66	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
9/27/2022	35.66	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
9/27/2022	35.66	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
9/27/2022	35.66	Tetrachloroethene	24 ppb	24 ppb	53 ppb
9/27/2022	35.66	Trichloroethene	4.5 ppb	3.8 ppb	220 ppb
9/27/2022	35.66	Vinyl Chloride	Non-Detect	3.1 ppb	930 ppb

Guard Well G600

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2021	Concentrations Fall 2022	USEPA Region 4
9/27/2022	22.30	Benzene	Non-Detect	Non-Detect	160 ppb
9/27/2022	22.30	Chloroform	Non-Detect	Non-Detect	140 ppb
9/27/2022	22.30	1,1 Dichloroethane	20 ppb	13 ppb	410 ppb
9/27/2022	22.30	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
9/27/2022	22.30	1,2,-Dichloroethane	1.2 ppb	Non-Detect	2000 ppb
9/27/2022	22.30	cis-1,2-Dichloroethene	240 ppb	210 ppb	620 ppb
9/27/2022	22.30	trans-1,2-Dichloroethene	3.4 ppb	2.4 ppb	558 ppb
9/27/2022	22.30	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
9/27/2022	22.30	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
9/27/2022	22.30	Tetrachloroethene	22 ppb	23 ppb	53 ppb
9/27/2022	22.30	Trichloroethene	93 ppb	59 ppb	220 ppb
9/27/2022	22.30	Vinyl Chloride	45 ppb	21 ppb	930 ppb

Plume Well G165

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2021	Concentrations Fall 2022	USEPA Region 4
9/27/2022	44.66	Benzene	Non-Detect	Non-Detect	160 ppb
9/27/2022	44.66	Chloroform	Non-Detect	Non-Detect	140 ppb
9/27/2022	44.66	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
9/27/2022	44.66	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
9/27/2022	44.66	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
9/27/2022	44.66	cis-1,2-Dichloroethene	Non-Detect	5.1 ppb	620 ppb
11/02/2022	44.66	cis-1,2-Dichloroethene	Re-sample	Non-Detect	620 ppb
9/27/2022	44.66	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
9/27/2022	44.66	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
9/27/2022	44.66	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
9/27/2022	44.66	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
9/27/2022	44.66	Trichloroethene	Non-Detect	Non-Detect	220 ppb
9/27/2022	44.66	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Plume Well G166

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2021	Concentrations Fall 2022	USEPA Region 4
9/27/2022	71.41	Benzene	Non-Detect	Non-Detect	160 ppb
9/27/2022	71.41	Chloroform	Non-Detect	Non-Detect	140 ppb
9/27/2022	71.41	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
9/27/2022	71.41	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
9/27/2022	71.41	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
9/27/2022	71.41	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
9/27/2022	71.41	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
9/27/2022	71.41	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
9/27/2022	71.41	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
9/27/2022	71.41	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
9/27/2022	71.41	Trichloroethene	Non-Detect	Non-Detect	220 ppb
9/27/2022	71.41	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Plume Well G168

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2021	Concentrations Fall 2022	USEPA Region 4
9/27/2022	50.30	Benzene	Non-Detect	Non-Detect	160 ppb
9/27/2022	50.30	Chloroform	3.1 ppb	3.9 ppb	140 ppb
9/27/2022	50.30	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
9/27/2022	50.30	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
9/27/2022	50.30	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
9/27/2022	50.30	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
9/27/2022	50.30	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
9/27/2022	50.30	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
9/27/2022	50.30	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
9/27/2022	50.30	Tetrachloroethene	110 ppb	110 ppb	53 ppb
9/27/2022	50.30	Trichloroethene	5.6 ppb	6.4 ppb	220 ppb
9/27/2022	50.30	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Plume Well G547

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2021	Concentrations Fall 2022	USEPA Region 4
9/27/2022	44.21	Benzene	230 ppb	60 ppb	160 ppb
9/27/2022	44.21	Chloroform	Non-Detect	Non-Detect	140 ppb
9/27/2022	44.21	1,1 Dichloroethane	4.1 ppb	1.4 ppb	410 ppb
9/27/2022	44.21	1,1 Dichloroethene	1.5 ppb	Non-Detect	130 ppb
9/27/2022	44.21	1,2,-Dichloroethane	8.0 ppb	4.3 ppb	2000 ppb
9/27/2022	44.21	cis-1,2-Dichloroethene	170 ppb	72 ppb	620 ppb
9/27/2022	44.21	trans-1,2Dichloroethene	18 ppb	8.3 ppb	558 ppb
9/27/2022	44.21	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
9/27/2022	44.21	Methylene Chloride	14 ppb	6.4 ppb	1500 ppb
9/27/2022	44.21	Tetrachloroethene	120 ppb	35 ppb	53 ppb
9/27/2022	44.21	Trichloroethene	350 ppb	210 ppb	220 ppb
9/27/2022	44.21	Vinyl Chloride	38 ppb	15 ppb	930 ppb

Plume Well G564

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2021	Concentrations Fall 2022	USEPA Region 4
9/27/2022	45.93	Benzene	11 ppb	8.5 ppb	160 ppb
9/27/2022	45.93	Chloroform	Non-Detect	Non-Detect	140 ppb
9/27/2022	45.93	1,1 Dichloroethane	1.4 ppb	Non-Detect	410 ppb
9/27/2022	45.93	1,1 Dichloroethene	5.8 ppb	3.9 ppb	130 ppb
9/27/2022	45.93	1,2,-Dichloroethane	1.8 ppb	1.3 ppb	2000 ppb
9/27/2022	45.93	cis-1,2-Dichloroethene	1900 ppb	1100 ppb	620 ppb
9/27/2022	45.93	trans-1,2-Dichloroethene	14 ppb	13 ppb	558 ppb
9/27/2022	45.93	1,2-Dichloropropane	1.4 ppb	Non-Detect	520 ppb
9/27/2022	45.93	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
9/27/2022	45.93	Tetrachloroethene	6.2 ppb	9.0 ppb	53 ppb
9/27/2022	45.93	Trichloroethene	3.4 ppb	2.5 ppb	220 ppb
9/27/2022	45.93	Vinyl Chloride	100 ppb	89 ppb	930 ppb

Plume Well G575

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2021	Concentrations Fall 2022	USEPA Region 4
9/27/2022	46.52	Benzene	Non-Detect	Non-Detect	160 ppb
9/27/2022	46.52	Chloroform	1.5 ppb	1.1 ppb	140 ppb
9/27/2022	46.52	1,1 Dichloroethane	35 ppb	19 ppb	410 ppb
9/27/2022	46.52	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
9/27/2022	46.52	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
9/27/2022	46.52	cis-1,2-Dichloroethene	2.9 ppb	1.1 ppb	620 ppb
9/27/2022	46.52	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
9/27/2022	46.52	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
9/27/2022	46.52	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
9/27/2022	46.52	Tetrachloroethene	6.1 ppb	3.1 ppb	53 ppb
9/27/2022	46.52	Trichloroethene	Non-Detect	1.6 ppb	220 ppb
9/27/2022	46.52	Vinyl Chloride	Non-Detect	1.6 ppb	930 ppb

Plume Well G594

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2021	Concentrations Fall 2022	USEPA Region 4
9/27/2022	41.71	Benzene	Non-Detect	Non-Detect	160 ppb
9/27/2022	41.71	Chloroform	Non-Detect	Non-Detect	140 ppb
9/27/2022	41.71	1,1 Dichloroethane	2.5 ppb	2.1 ppb	410 ppb
9/27/2022	41.71	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
9/27/2022	41.71	1,2,-Dichloroethane	1.3 ppb	Non-Detect	2000 ppb
9/27/2022	41.71	cis-1,2-Dichloroethene	75 ppb	44 ppb	620 ppb
9/27/2022	41.71	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
9/27/2022	41.71	1,2-Dichloropropane	1.0 ppb	Non-Detect	520 ppb
9/27/2022	41.71	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
9/27/2022	41.71	Tetrachloroethene	2.4 ppb	2.3 ppb	53 ppb
9/27/2022	41.71	Trichloroethene	4.7 ppb	4.0ppb	220 ppb
9/27/2022	41.71	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

(GSI) Shoreline Well G211

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2021	Concentrations Fall 2022	USEPA Region 4
9/27/2022	42.60	Benzene	Non-Detect	Non-Detect	160 ppb
9/27/2022	42.60	Chloroform	Non-Detect	Non-Detect	140 ppb
9/27/2022	42.60	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
9/27/2022	42.60	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
9/27/2022	42.60	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
9/27/2022	42.60	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
9/27/2022	42.60	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
9/27/2022	42.60	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
9/27/2022	42.60	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
9/27/2022	42.60	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
9/27/2022	42.60	Trichloroethene	Non-Detect	Non-Detect	220 ppb
9/27/2022	42.60	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

(GSI) Shoreline Well G570

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2021	Concentrations Fall 2022	USEPA Region 4
9/27/2022	17.00	Benzene	Non-Detect	Non-Detect	160 ppb
9/27/2022	17.00	Chloroform	Non-Detect	Non-Detect	140 ppb
9/27/2022	17.00	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
9/27/2022	17.00	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
9/27/2022	17.00	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
9/27/2022	17.00	cis-1,2-Dichloroethene	3.5 ppb	3.3 ppb	620 ppb
9/27/2022	17.00	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
9/27/2022	17.00	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
9/27/2022	17.00	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
9/27/2022	17.00	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
9/27/2022	17.00	Trichloroethene	Non-Detect	Non-Detect	220 ppb
9/27/2022	17.00	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Surface Monitoring Point of Compliance S501

Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2021	Concentrations Fall 2022	USEPA Region 4
9/27/2022	N/A	Benzene	Non-Detect	Non-Detect	160 ppb
9/27/2022	N/A	Chloroform	Non-Detect	Non-Detect	140 ppb
9/27/2022	N/A	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
9/27/2022	N/A	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
9/27/2022	N/A	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
9/27/2022	N/A	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
9/27/2022	N/A	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
9/27/2022	N/A	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
9/27/2022	N/A	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
9/27/2022	N/A	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
9/27/2022	N/A	Trichloroethene	Non-Detect	Non-Detect	220 ppb
9/27/2022	N/A	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

Surface Monitoring Point of Compliance S502

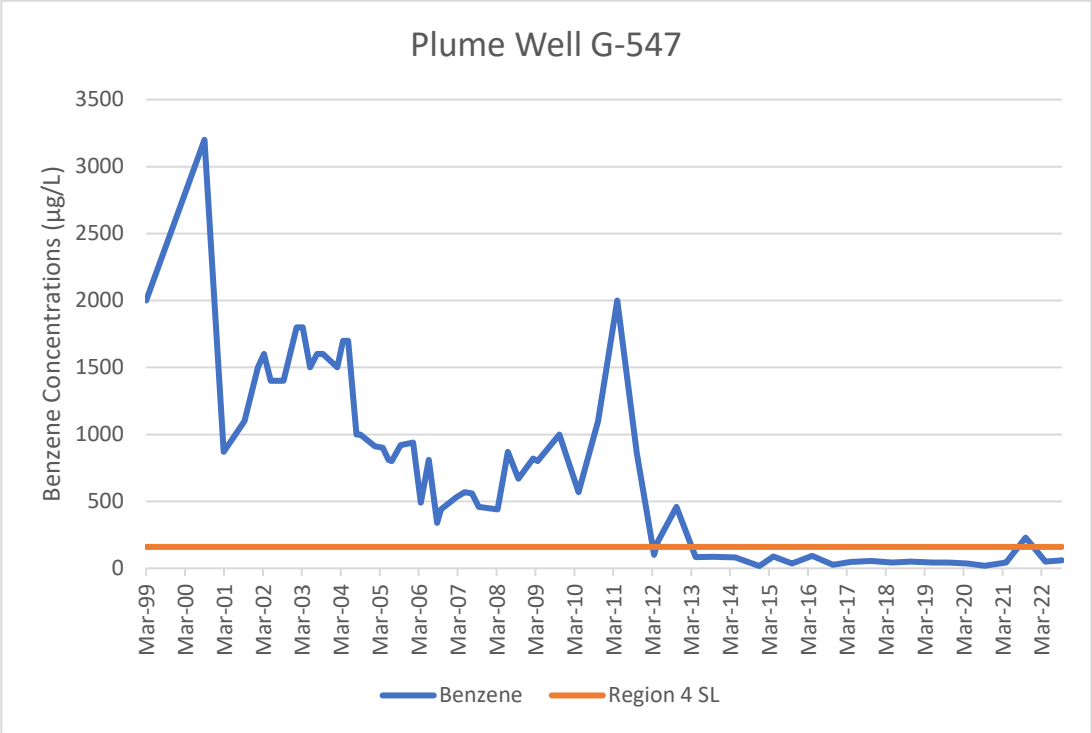
Sample Date	Well Screen Depth	Constituent	Concentrations Fall 2021	Concentrations Fall 2022	USEPA Region 4
9/27/2022	N/A	Benzene	Non-Detect	Non-Detect	160 ppb
9/27/2022	N/A	Chloroform	Non-Detect	Non-Detect	140 ppb
9/27/2022	N/A	1,1 Dichloroethane	Non-Detect	Non-Detect	410 ppb
9/27/2022	N/A	1,1 Dichloroethene	Non-Detect	Non-Detect	130 ppb
9/27/2022	N/A	1,2,-Dichloroethane	Non-Detect	Non-Detect	2000 ppb
9/27/2022	N/A	cis-1,2-Dichloroethene	Non-Detect	Non-Detect	620 ppb
9/27/2022	N/A	trans-1,2-Dichloroethene	Non-Detect	Non-Detect	558 ppb
9/27/2022	N/A	1,2-Dichloropropane	Non-Detect	Non-Detect	520 ppb
9/27/2022	N/A	Methylene Chloride	Non-Detect	Non-Detect	1500 ppb
9/27/2022	N/A	Tetrachloroethene	Non-Detect	Non-Detect	53 ppb
9/27/2022	N/A	Trichloroethene	Non-Detect	Non-Detect	220 ppb
9/27/2022	N/A	Vinyl Chloride	Non-Detect	Non-Detect	930 ppb

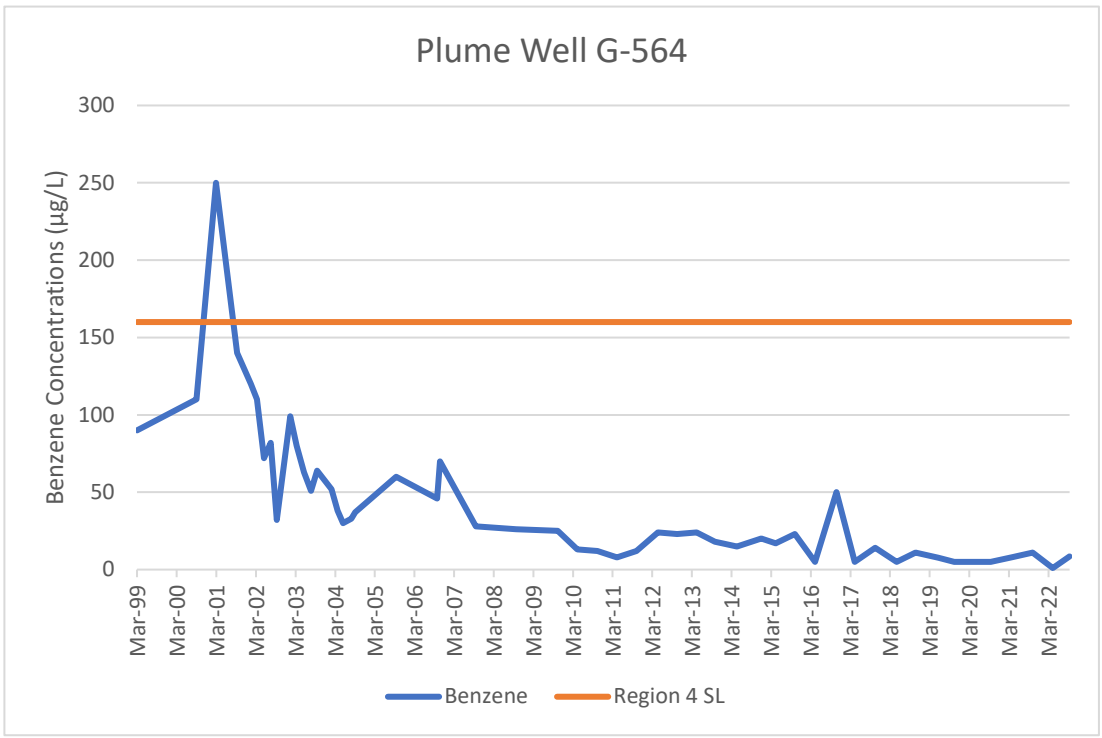
APPENDIX B

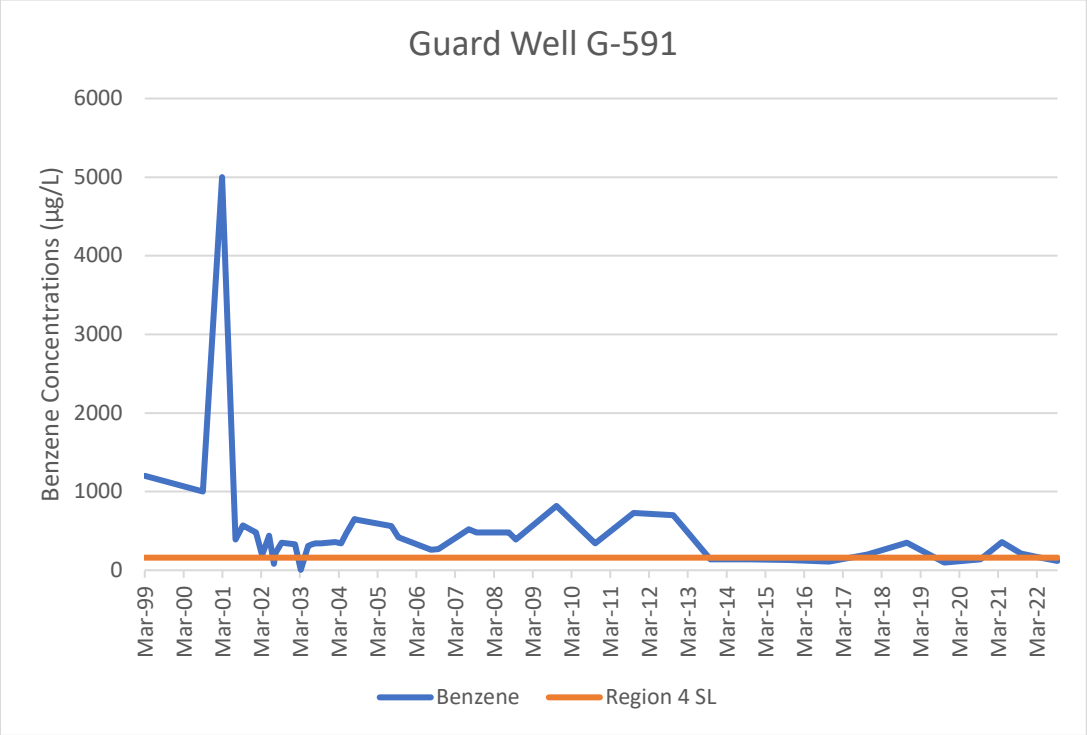
Graphical Evaluation

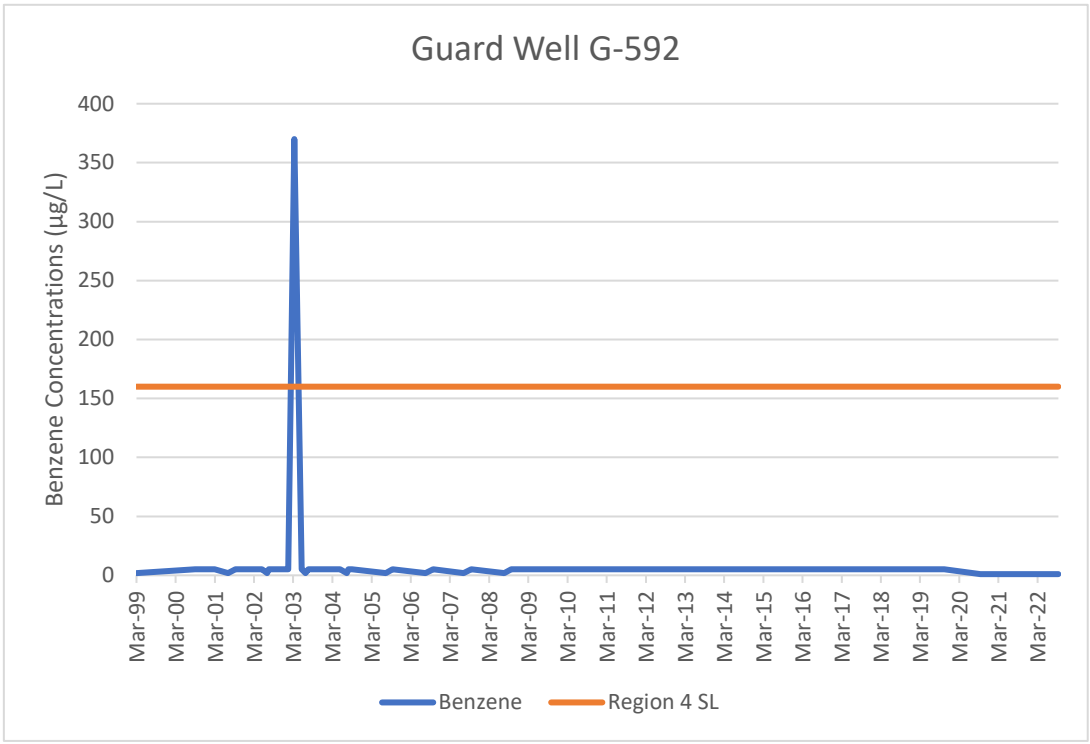
APPENDIX B.1

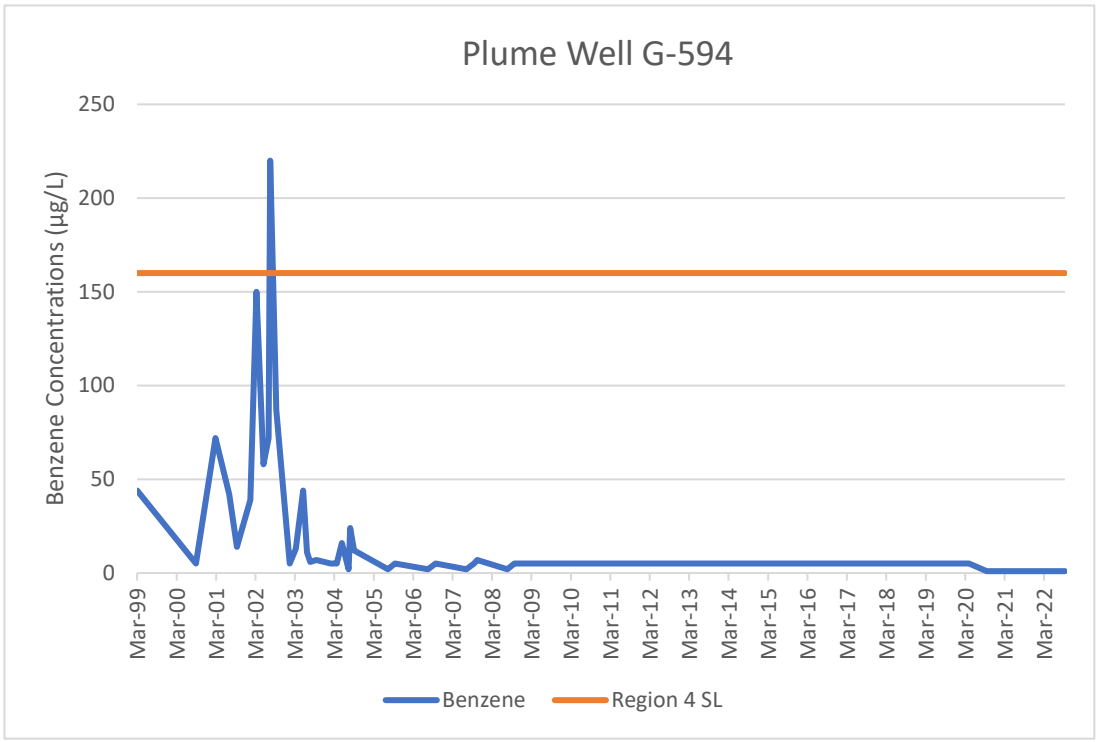
Concentration Line Plots

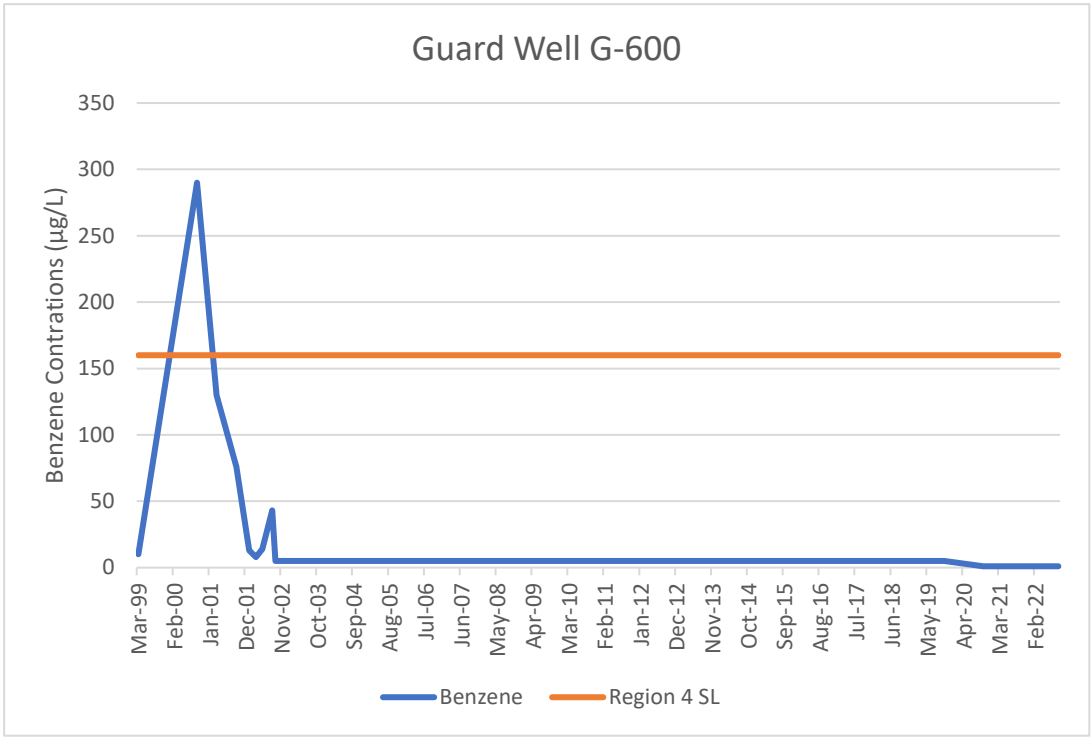

Plume Well G-547
Benzene Concentrations (µg/L)
3500
3000
2500
2000
1500
1000
500
0
Mar-99
Mar-00
Mar-01
Mar-02
Mar-03
Mar-04
Mar-05
Mar-06
Mar-07
Mar-08
Mar-09
Mar-10
Mar-11
Mar-12
Mar-13
Mar-14
Mar-15
Mar-16
Mar-17
Mar-18
Mar-19
Mar-20
Mar-21
Mar-22
Benzene
Region 4 SL

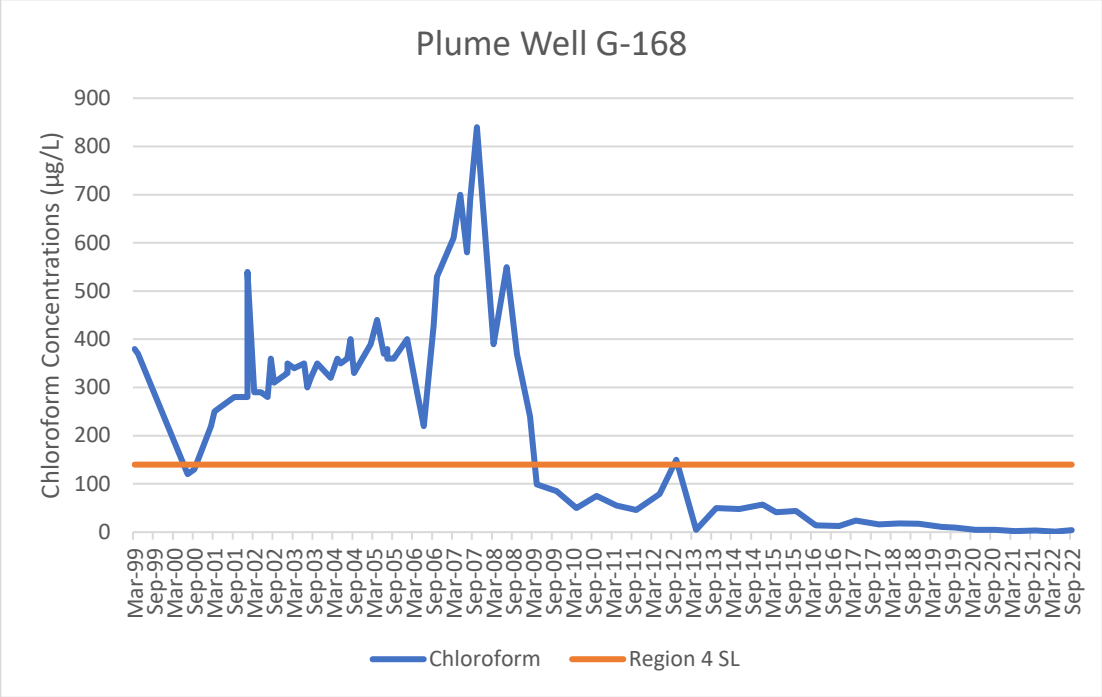

Plume Well G-564
Benzene Concentrations (µg/L)
300
250
200
150
100
50
0
Mar-99
Mar-00
Mar-01
Mar-02
Mar-03
Mar-04
Mar-05
Mar-06
Mar-07
Mar-08
Mar-09
Mar-10
Mar-11
Mar-12
Mar-13
Mar-14
Mar-15
Mar-16
Mar-17
Mar-18
Mar-19
Mar-20
Mar-21
Mar-22
Benzene
Region 4 SL


Guard Well G-591
Benzene Concentrations (µg/L)
6000
5000
4000
3000
2000
1000
0
Mar-99
Mar-00
Mar-01
Mar-02
Mar-03
Mar-04
Mar-05
Mar-06
Mar-07
Mar-08
Mar-09
Mar-10
Mar-11
Mar-12
Mar-13
Mar-14
Mar-15
Mar-16
Mar-17
Mar-18
Mar-19
Mar-20
Mar-21
Mar-22
Benzene
Region 4 SL


Guard Well G-592
Benzene Concentrations (µg/L)
400
350
300
250
200
150
100
50
0
Mar-99
Mar-00
Mar-01
Mar-02
Mar-03
Mar-04
Mar-05
Mar-06
Mar-07
Mar-08
Mar-09
Mar-10
Mar-11
Mar-12
Mar-13
Mar-14
Mar-15
Mar-16
Mar-17
Mar-18
Mar-19
Mar-20
Mar-21
Mar-22
Benzene
Region 4 SL


Plume Well G-594
Benzene Concentrations (µg/L)
250
200
150
100
50
0
Mar-99
Mar-00
Mar-01
Mar-02
Mar-03
Mar-04
Mar-05
Mar-06
Mar-07
Mar-08
Mar-09
Mar-10
Mar-11
Mar-12
Mar-13
Mar-14
Mar-15
Mar-16
Mar-17
Mar-18
Mar-19
Mar-20
Mar-21
Mar-22
Benzene
Region 4 SL


Guard Well G-600
Benzene Contrations (µg/L)
350
300
250
200
150
100
50
0
Mar-99
Feb-00
Jan-01
Dec-01
Nov-02
Oct-03
Sep-04
Aug-05
Jul-06
Jun-07
May-08
Apr-09
Mar-10
Feb-11
Jan-12
Dec-12
Nov-13
Oct-14
Sep-15
Aug-16
Jul-17
Jun-18
May-19
Apr-20
Mar-21
Feb-22
Benzene
Region 4 SL


Plume Well G-168
Chloroform Concentrations (µg/L)
900
800
700
600
500
400
300
200
100
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
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Sep-11
Mar-12
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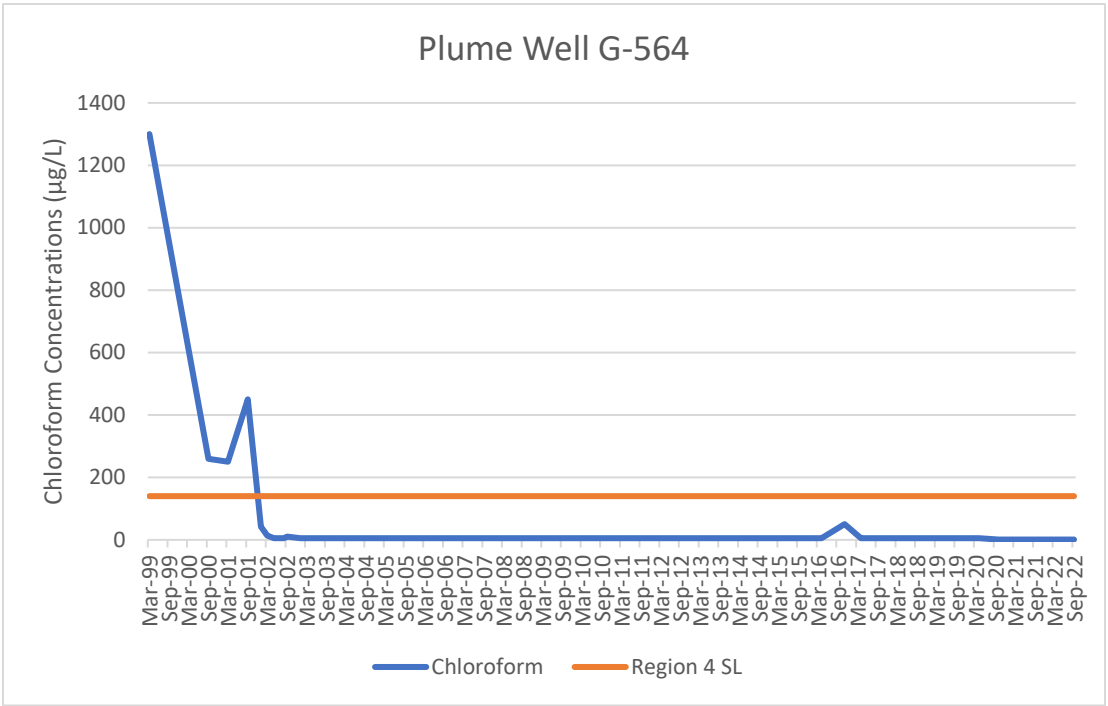
Sep-13
Mar-14
Sep-14
Mar-15
Sep-15
Mar-16
Sep-16
Mar-17
Sep-17
Mar-18
Sep-18
Mar-19
Sep-19
Mar-20
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
Chloroform
Region 4 SL


Plume Well G-564
Chloroform Concentrations (µg/L)
1400
1200
1000
800
600
400
200
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
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Mar-16
Sep-16
Mar-17
Sep-17
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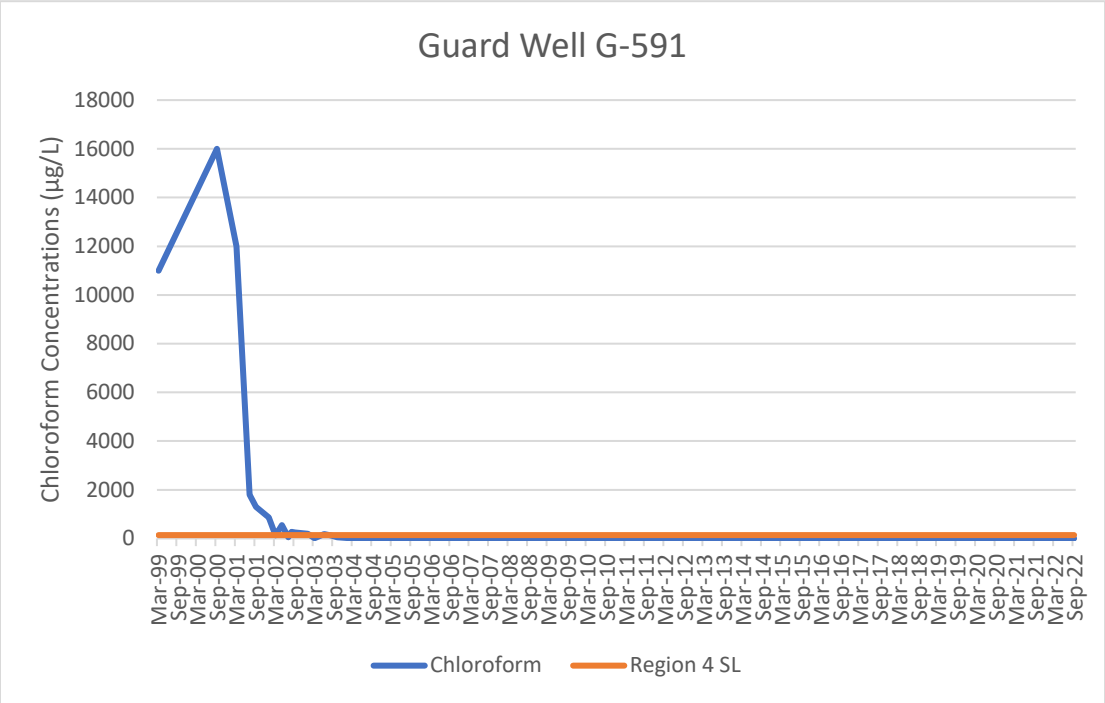
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
Chloroform
Region 4 SL


Guard Well G-591
Chloroform Concentrations (µg/L)
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
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Mar-10
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Mar-16
Sep-16
Mar-17
Sep-17
Mar-18
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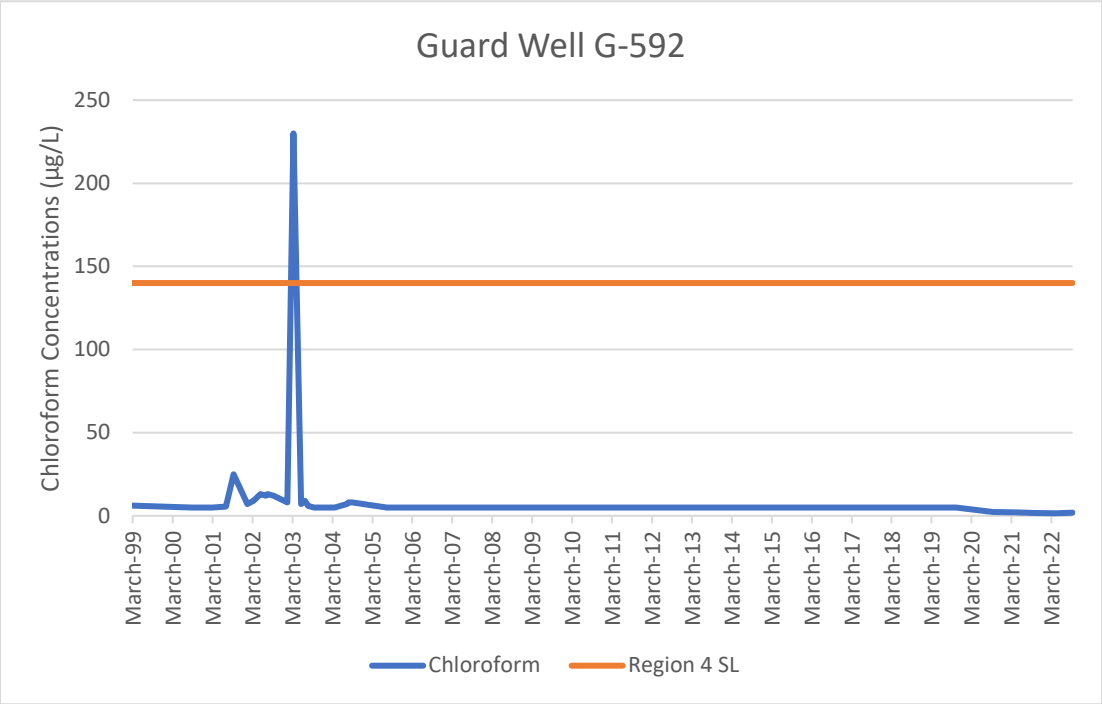
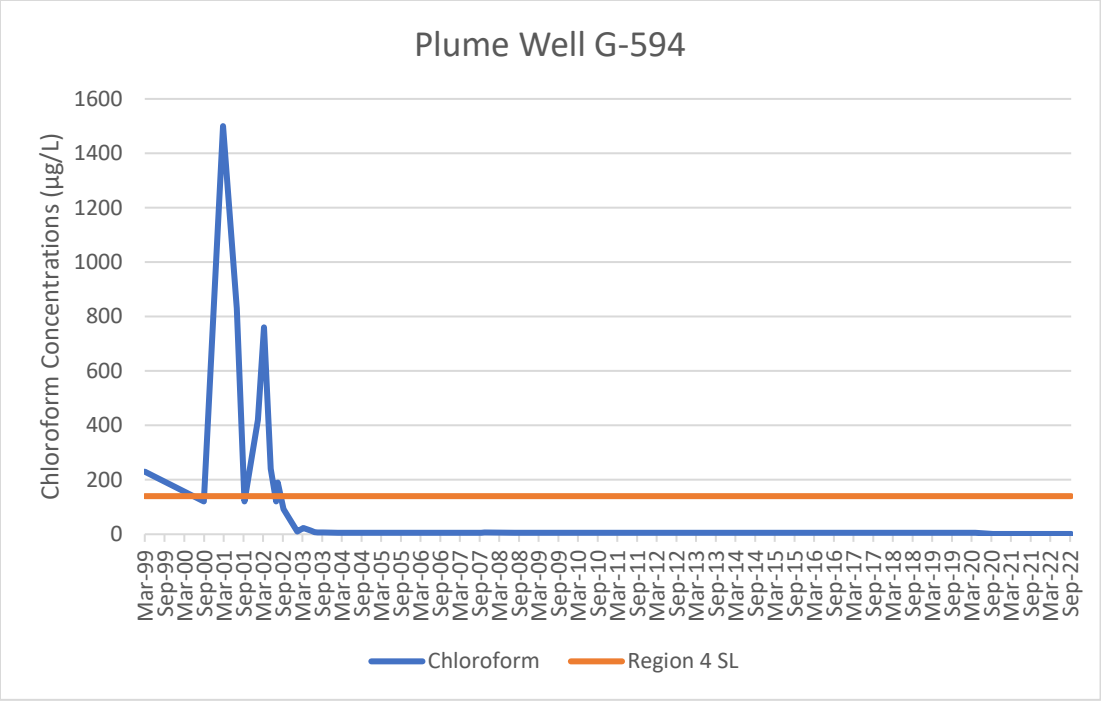
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
Chloroform
Region 4 SL


Guard Well G-592
Chloroform Concentrations (µg/L)
250
200
150
100
50
0
March-99
March-00
March-01
March-02
March-03
March-04
March-05
March-06
March-07
March-08
March-09
March-10
March-11
March-12
March-13
March-14
March-15
March-16
March-17
March-18
March-19
March-20
March-21
March-22
Chloroform
Region 4 SL


Plume Well G-594
Chloroform Concentrations (µg/L)
1600
1400
1200
1000
800
600
400
200
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
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Mar-12
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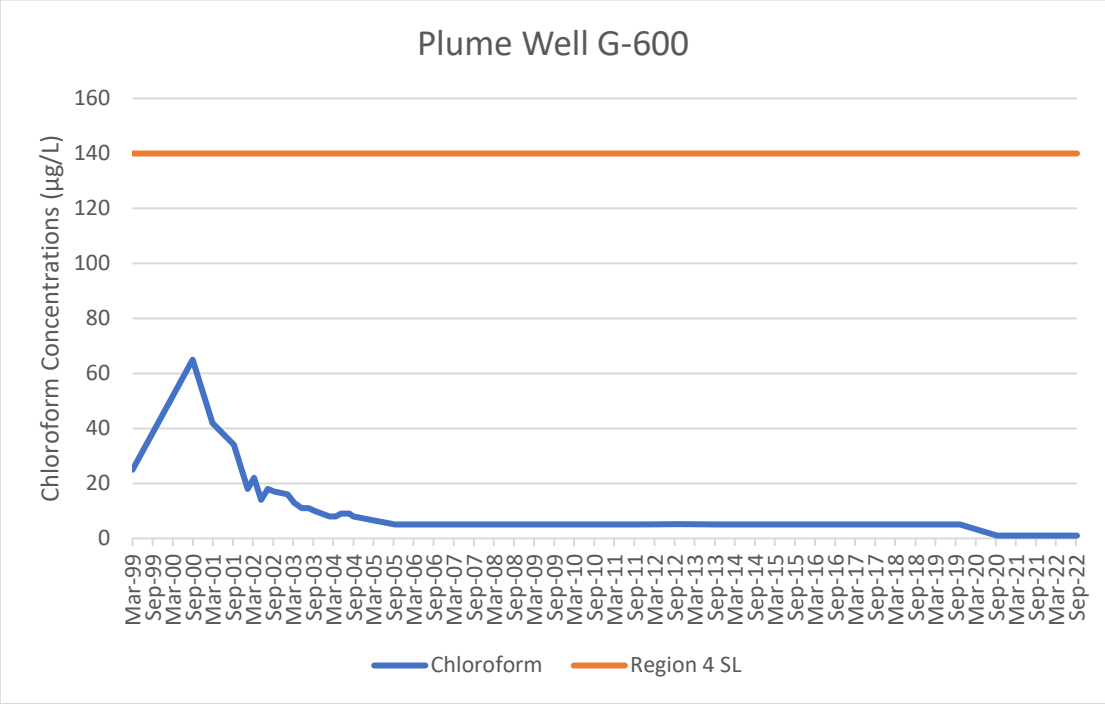
Sep-13
Mar-14
Sep-14
Mar-15
Sep-15
Mar-16
Sep-16
Mar-17
Sep-17
Mar-18
Sep-18
Mar-19
Sep-19
Mar-20
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
Chloroform
Region 4 SL


Plume Well G-600
Chloroform Concentrations (µg/L)
160
140
120
100
80
60
40
20
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
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Mar-14
Sep-14
Mar-15
Sep-15
Mar-16
Sep-16
Mar-17
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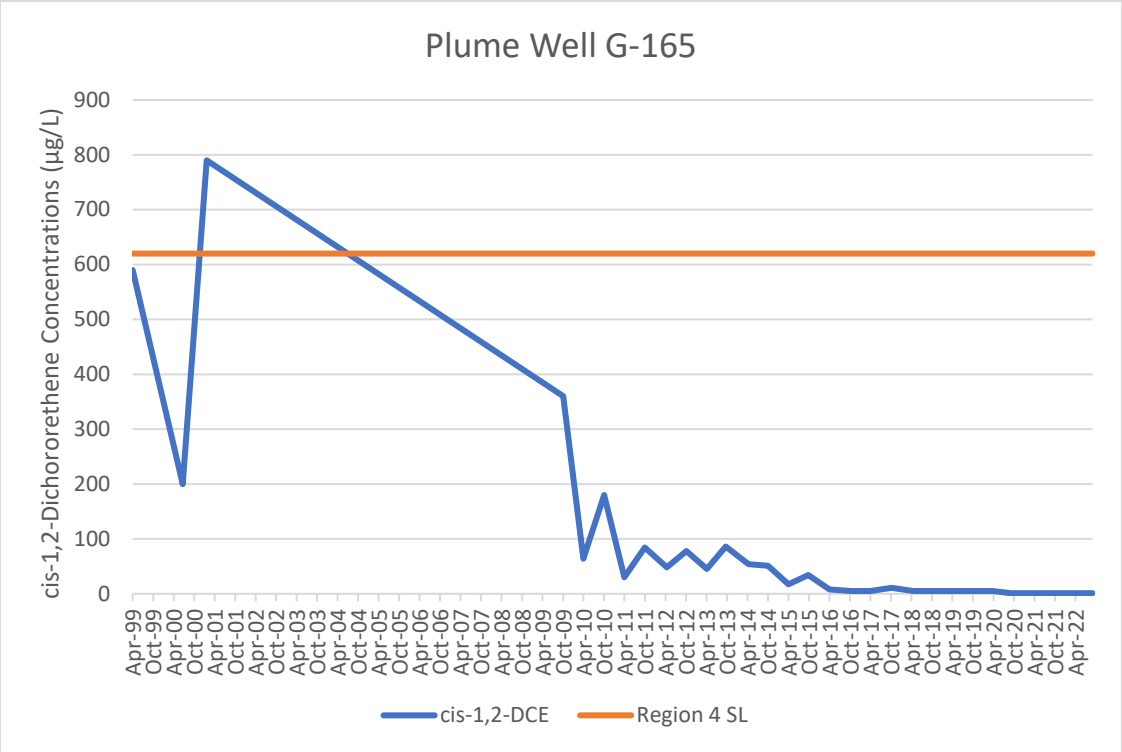
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
Chloroform
Region 4 SL


Plume Well G-165
cis-1,2-Dichororethene Concentrations (µg/L)
900
800
700
600
500
400
300
200
100
0
Apr-99
Oct-99
Apr-00
Oct-00
Apr-01
Oct-01
Apr-02
Oct-02
Apr-03
Oct-03
Apr-04
Oct-04
Apr-05
Oct-05
Apr-06
Oct-06
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Apr-08
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Apr-09
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Apr-10
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Apr-11
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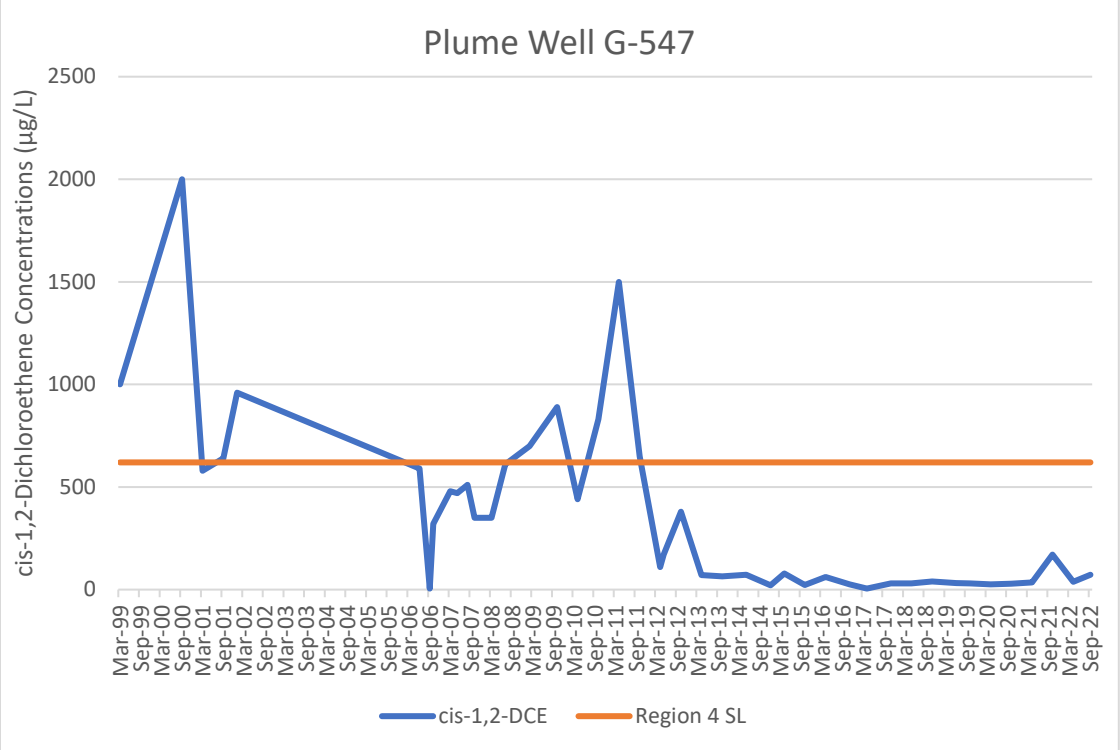
Apr-12
Oct-12
Apr-13
Oct-13
Apr-14
Oct-14
Apr-15
Oct-15
Apr-16
Oct-16
Apr-17
Oct-17
Apr-18
Oct-18
Apr-19
Oct-19
Apr-20
Oct-20
Apr-21
Oct-21
Apr-22
cis-1,2-DCE
Region 4 SL


Plume Well G-547
cis-1,2-Dichloroethene Concentrations (µg/L)
2500
2000
1500
1000
500
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
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Mar-13
Sep-13
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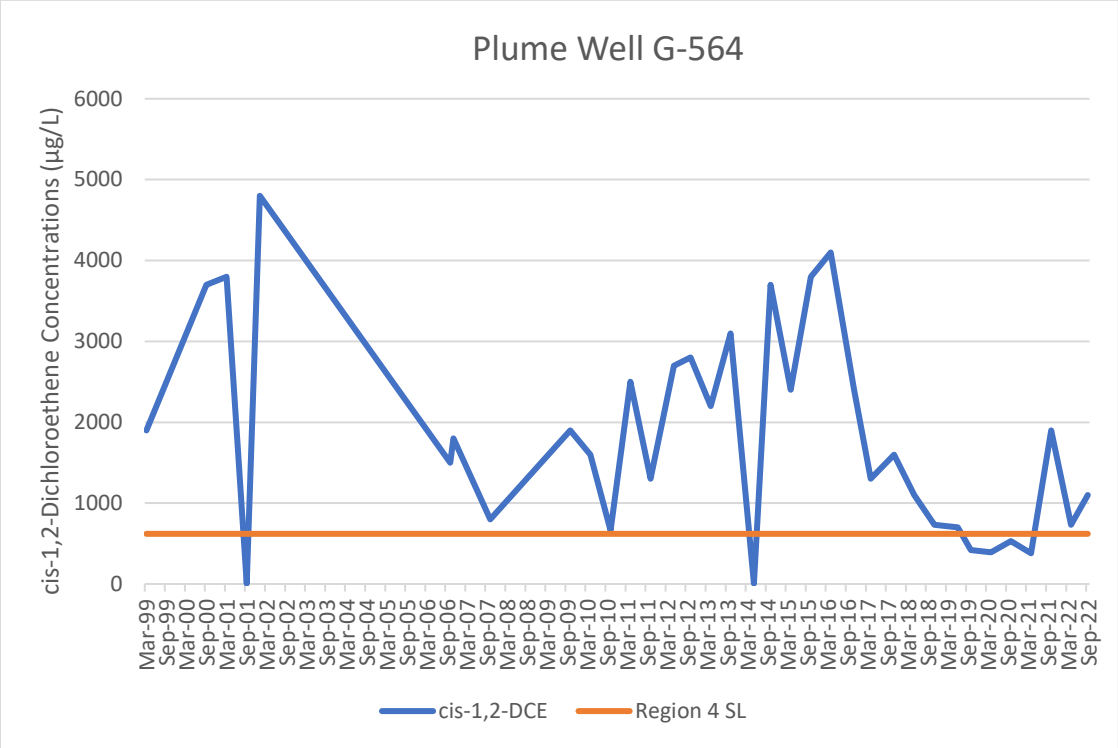
Mar-17
Sep-17
Mar-18
Sep-18
Mar-19
Sep-19
Mar-20
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
cis-1,2-DCE
Region 4 SL


Plume Well G-564
cis-1,2-Dichloroethene Concentrations (µg/L)
6000
5000
4000
3000
2000
1000
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
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Mar-11
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Sep-20
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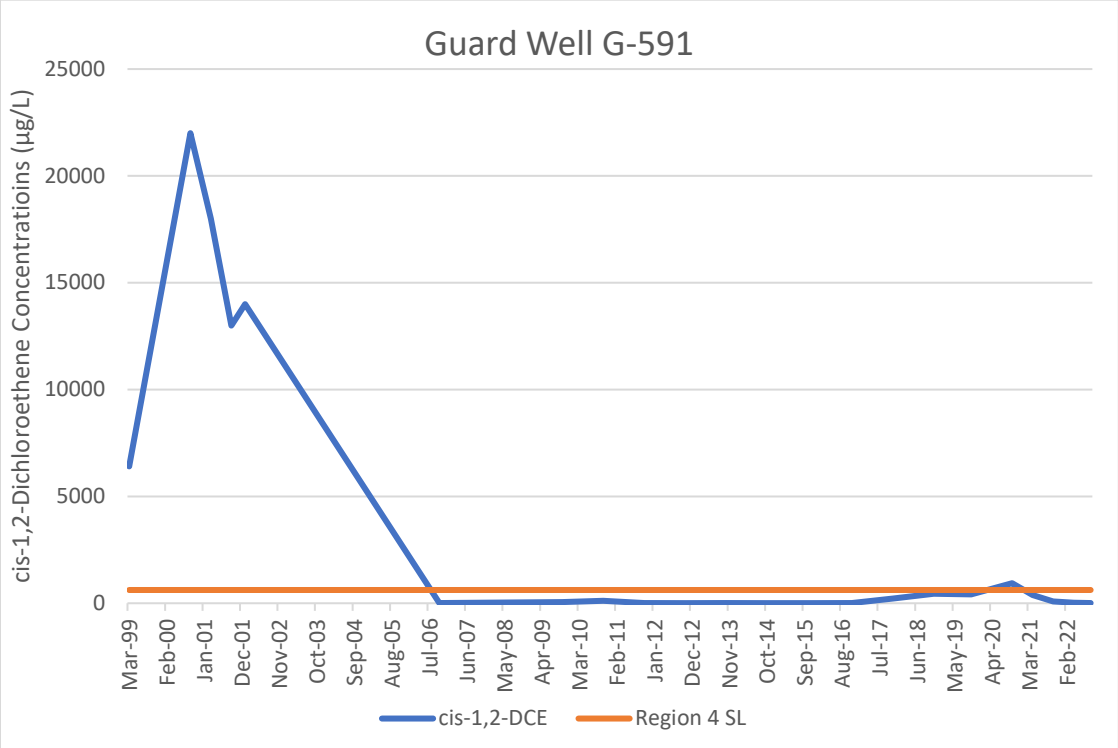
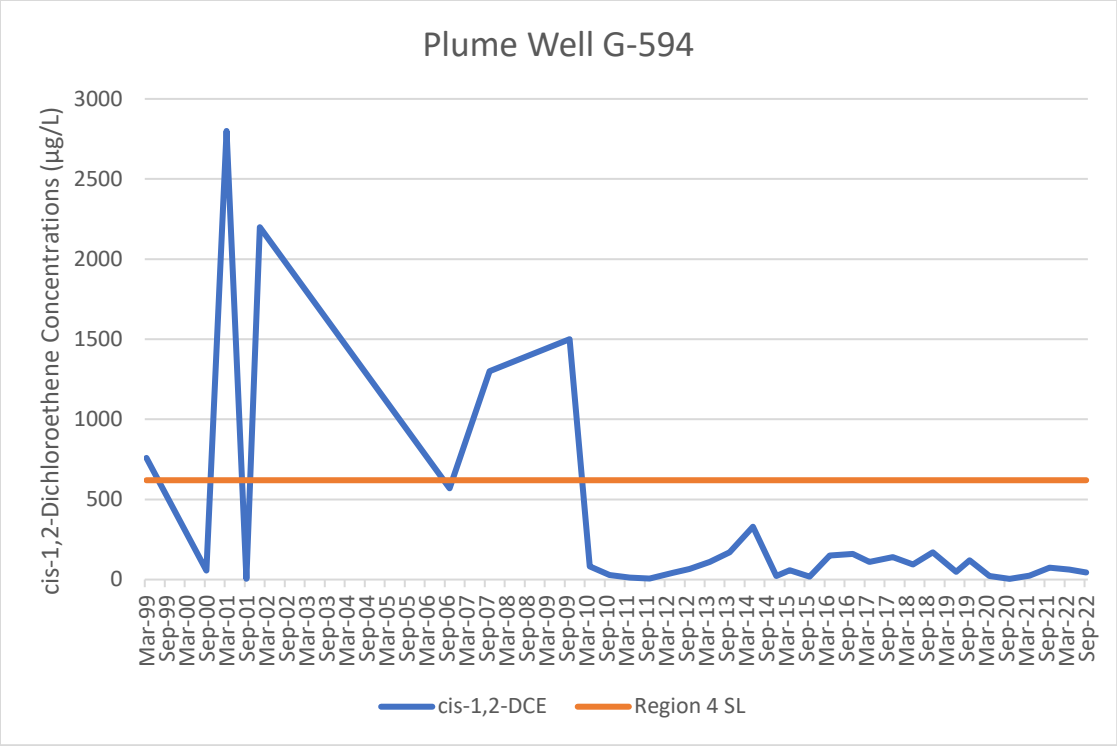
Sep-21
Mar-22
Sep-22
cis-1,2-DCE
Region 4 SL


Guard Well G-591
cis-1,2-Dichloroethene Concentratioins (µg/L)
25000
20000
15000
10000
5000
0
Mar-99
Feb-00
Jan-01
Dec-01
Nov-02
Oct-03
Sep-04
Aug-05
Jul-06
Jun-07
May-08
Apr-09
Mar-10
Feb-11
Jan-12
Dec-12
Nov-13
Oct-14
Sep-15
Aug-16
Jul-17
Jun-18
May-19
Apr-20
Mar-21
Feb-22
cis-1,2-DCE
Region 4 SL


Plume Well G-594
cis-1,2-Dichloroethene Concentrations (µg/L)
3000
2500
2000
1500
1000
500
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
Sep-11
Mar-12
Sep-12
Mar-13
Sep-13
Mar-14
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Sep-15
Mar-16
Sep-16
Mar-17
Sep-17
Mar-18
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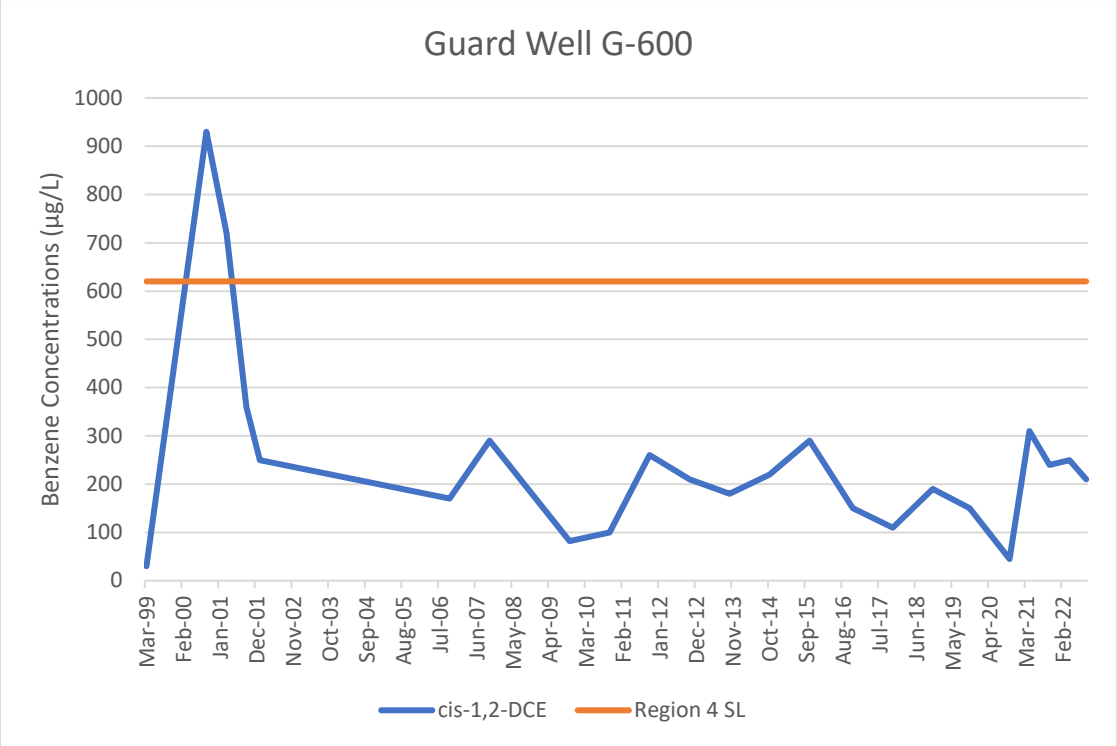
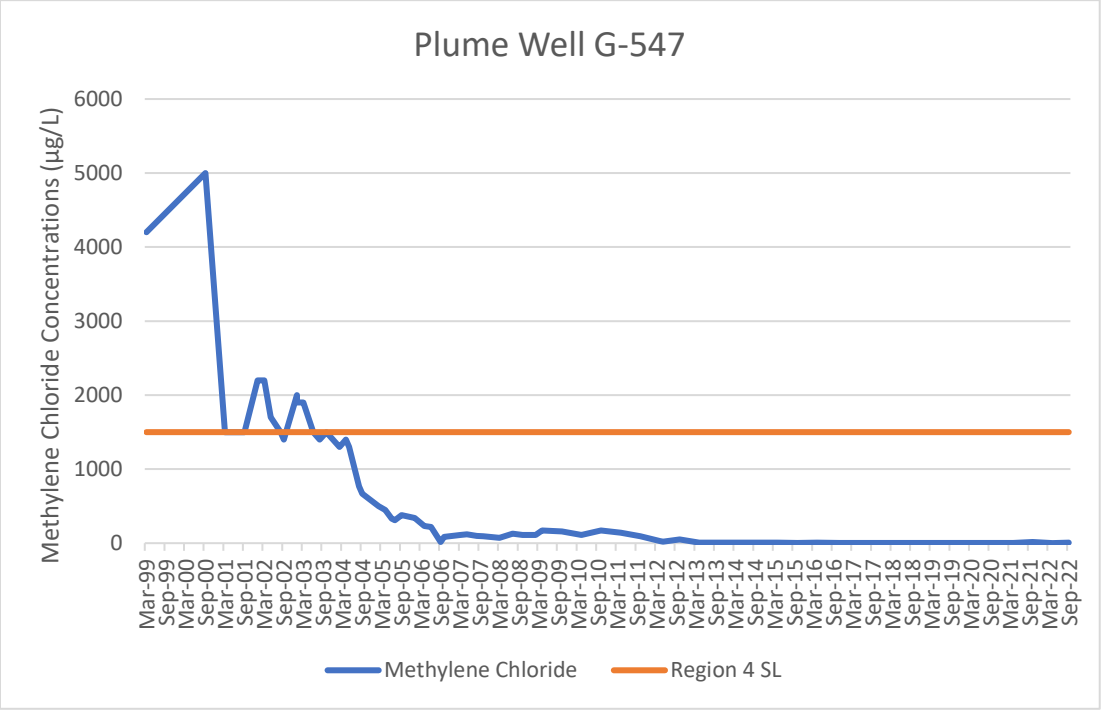
Sep-21
Mar-22
Sep-22
cis-1,2-DCE
Region 4 SL


Guard Well G-600
Benzene Concentrations (µg/L)
1000
900
800
700
600
500
400
300
200
100
0
Mar-99
Feb-00
Jan-01
Dec-01
Nov-02
Oct-03
Sep-04
Aug-05
Jul-06
Jun-07
May-08
Apr-09
Mar-10
Feb-11
Jan-12
Dec-12
Nov-13
Oct-14
Sep-15
Aug-16
Jul-17
Jun-18
May-19
Apr-20
Mar-21
Feb-22
cis-1,2-DCE
Region 4 SL


Plume Well G-547
Methylene Chloride Concentrations (µg/L)
6000
5000
4000
3000
2000
1000
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
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Mar-13
Sep-13
Mar-14
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Sep-15
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Sep-17
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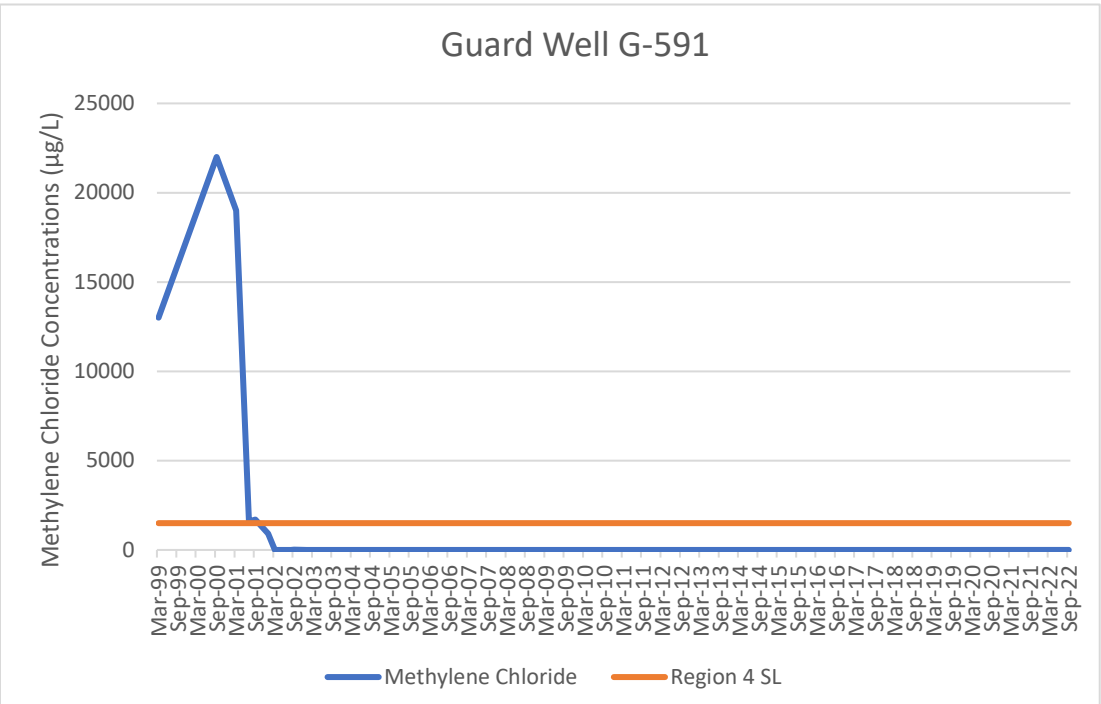
Sep-19
Mar-20
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
Methylene Chloride
Region 4 SL


Guard Well G-591
Methylene Chloride Concentrations (µg/L)
25000
20000
15000
10000
5000
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
Sep-11
Mar-12
Sep-12
Mar-13
Sep-13
Mar-14
Sep-14
Mar-15
Sep-15
Mar-16
Sep-16
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Sep-17
Mar-18
Sep-18
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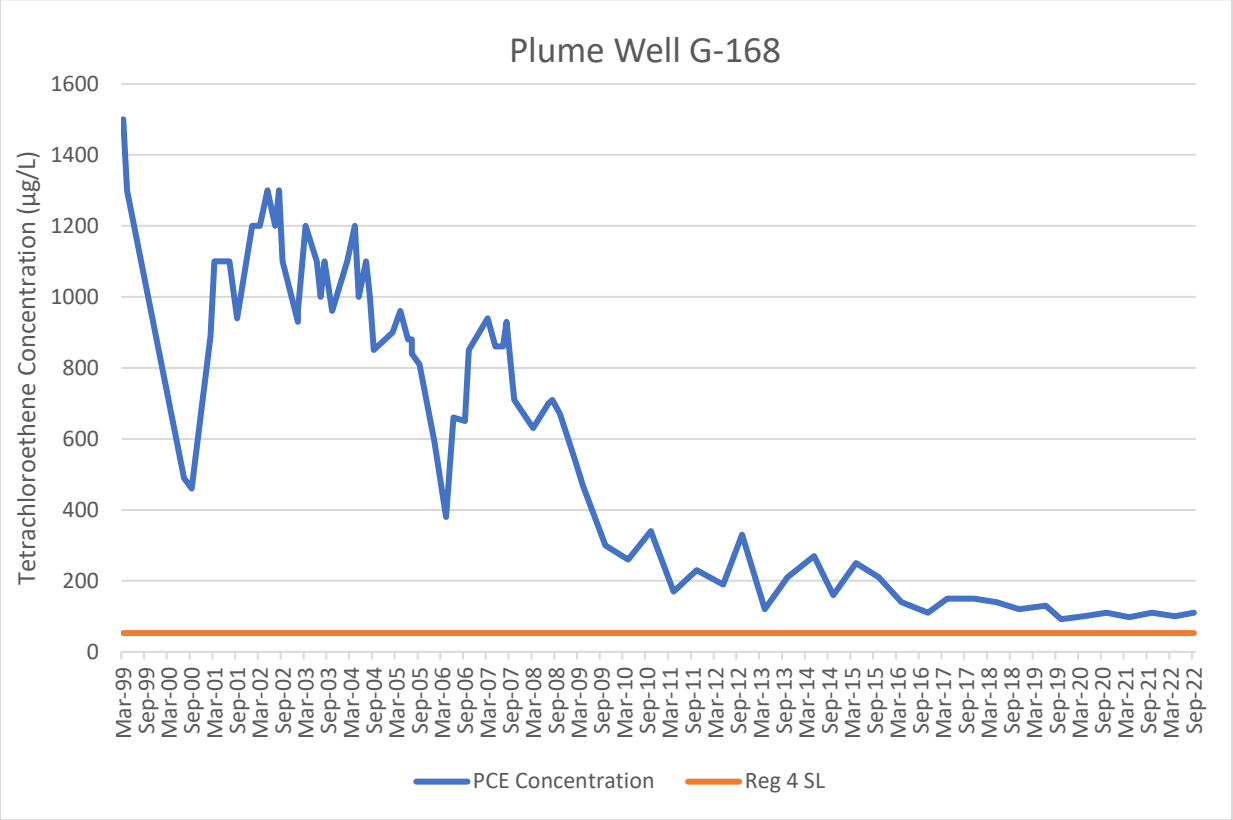
Sep-19
Mar-20
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
Methylene Chloride
Region 4 SL


Plume Well G-168
Tetrachloroethene Concentration (µg/L)
1600
1400
1200
1000
800
600
400
200
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
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Mar-09
Sep-09
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Sep-10
Mar-11
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Mar-12
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Sep-13
Mar-14
Sep-14
Mar-15
Sep-15
Mar-16
Sep-16
Mar-17
Sep-17
Mar-18
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Sep-19
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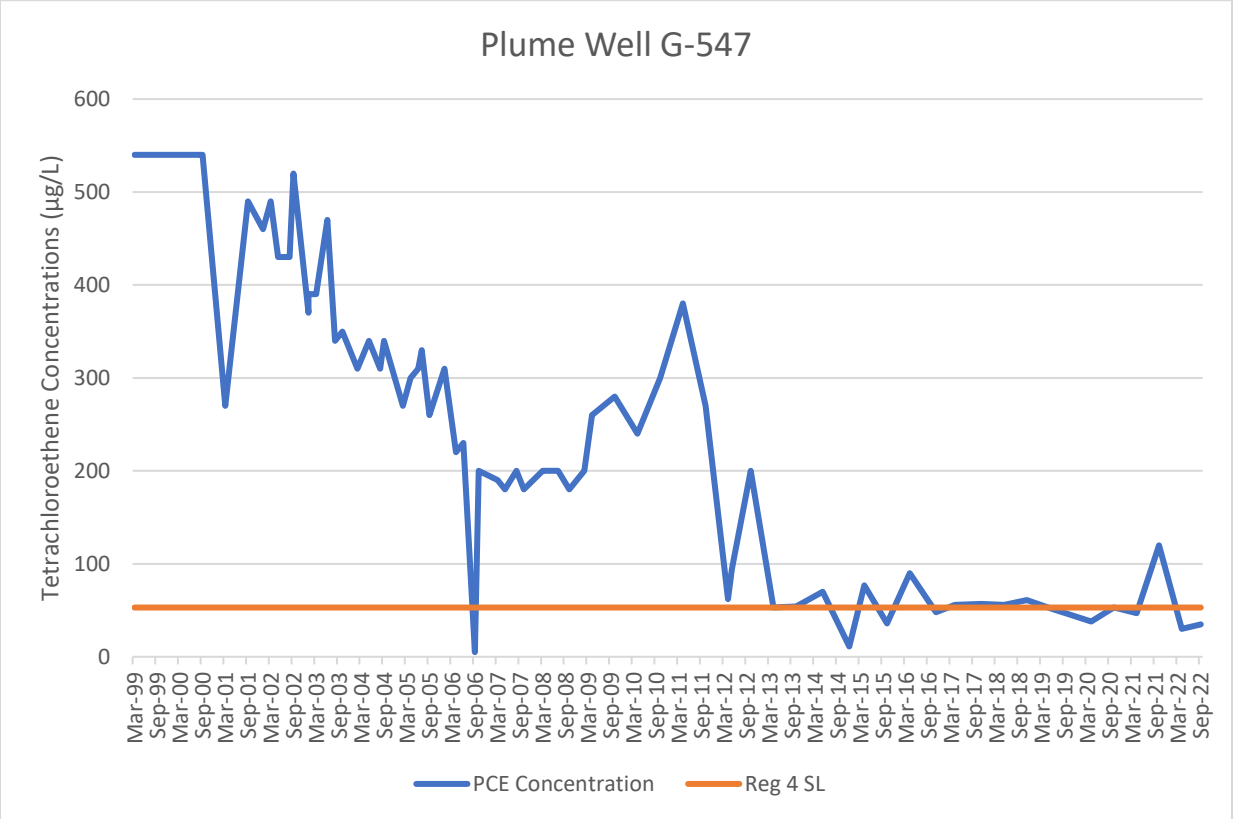
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
PCE Concentration
Reg 4 SL


Plume Well G-547
Tetrachloroethene Concentrations (µg/L)
600
500
400
300
200
100
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
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Mar-11
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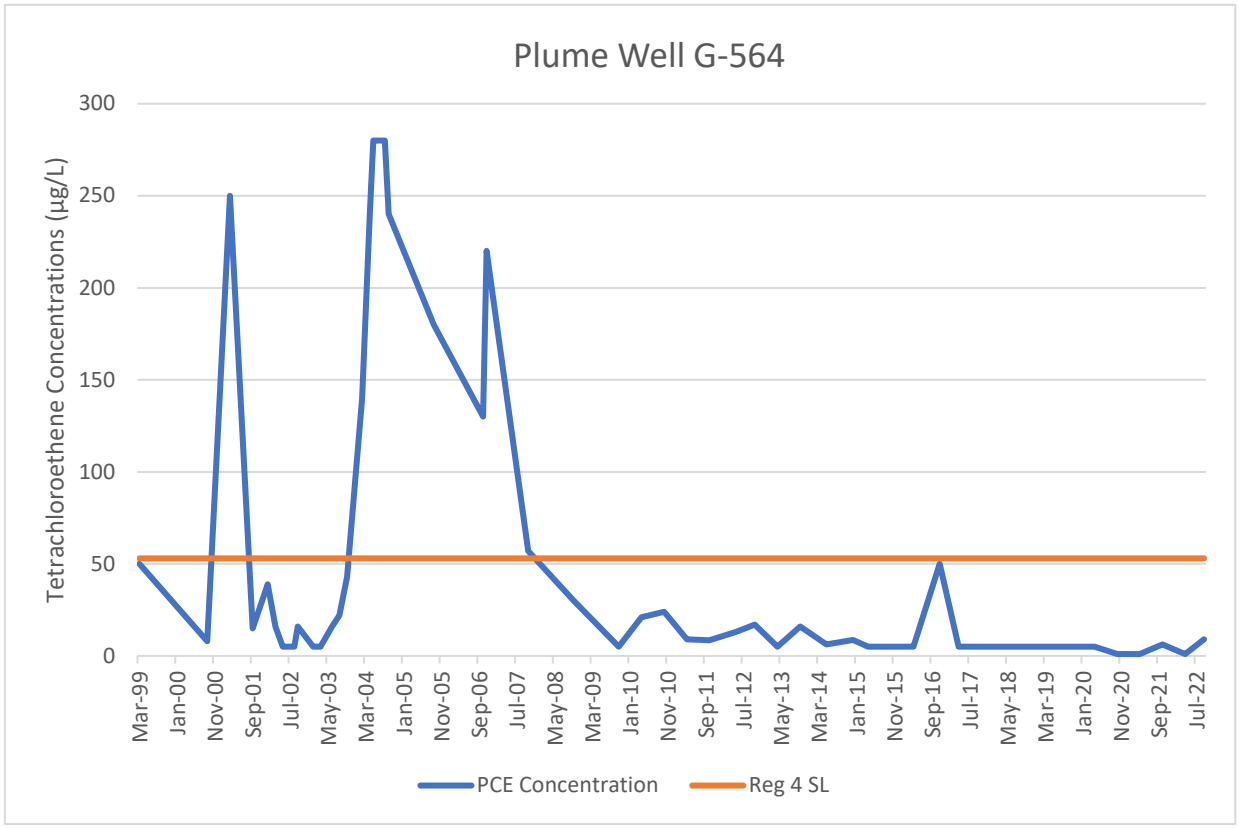
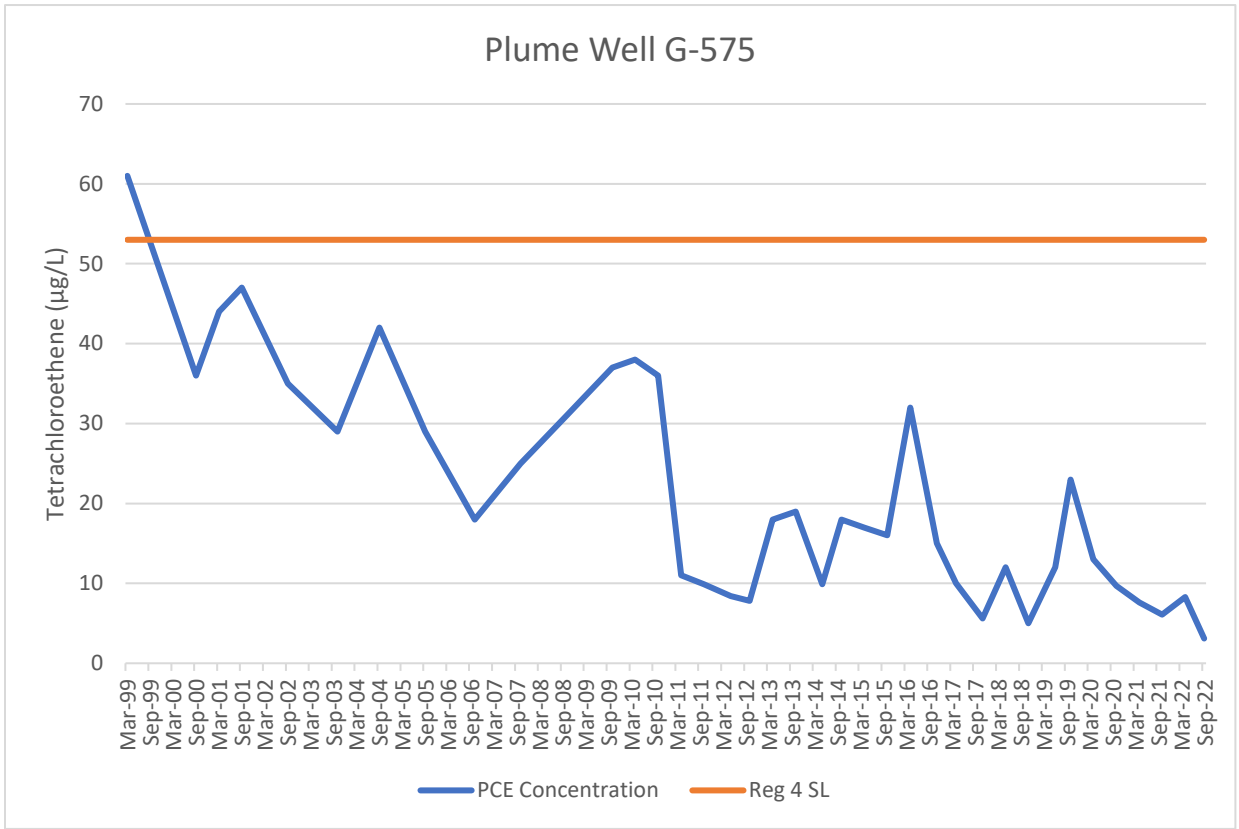
Mar-21
Sep-21
Mar-22
Sep-22
PCE Concentration
Reg 4 SL


Plume Well G-564
Tetrachloroethene Concentrations (µg/L)
300
250
200
150
100
50
0
Mar-99
Jan-00
Nov-00
Sep-01
Jul-02
May-03
Mar-04
Jan-05
Nov-05
Sep-06
Jul-07
May-08
Mar-09
Jan-10
Nov-10
Sep-11
Jul-12
May-13
Mar-14
Jan-15
Nov-15
Sep-16
Jul-17
May-18
Mar-19
Jan-20
Nov-20
Sep-21
Jul-22
PCE Concentration
Reg 4 SL


Plume Well G-575
Tetrachloroethene (µg/L)
70
60
50
40
30
20
10
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
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Mar-10
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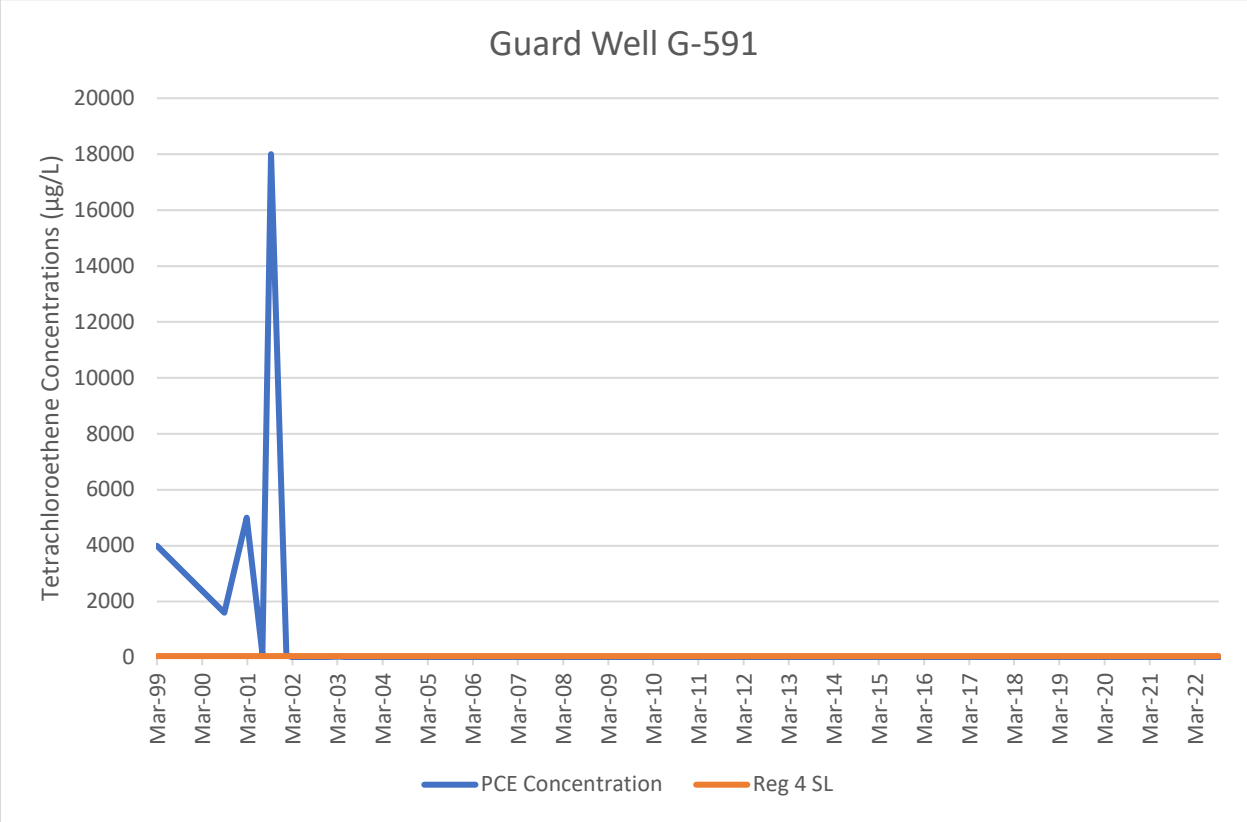
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
PCE Concentration
Reg 4 SL


Guard Well G-591
Tetrachloroethene Concentrations (µg/L)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
Mar-99
Mar-00
Mar-01
Mar-02
Mar-03
Mar-04
Mar-05
Mar-06
Mar-07
Mar-08
Mar-09
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Mar-11
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Mar-16
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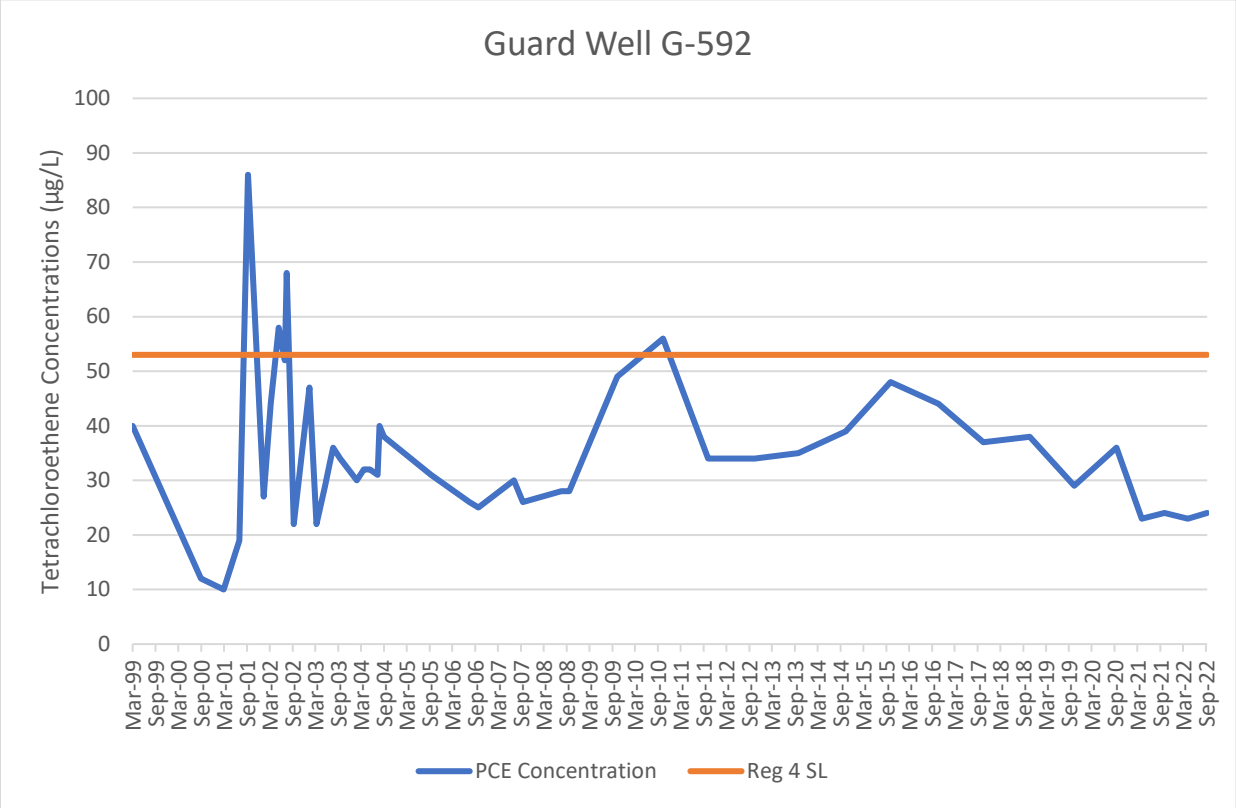
Mar-20
Mar-21
Mar-22
PCE Concentration
Reg 4 SL


Guard Well G-592
Tetrachloroethene Concentrations (µg/L)
100
90
80
70
60
50
40
30
20
10
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
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Sep-05
Mar-06
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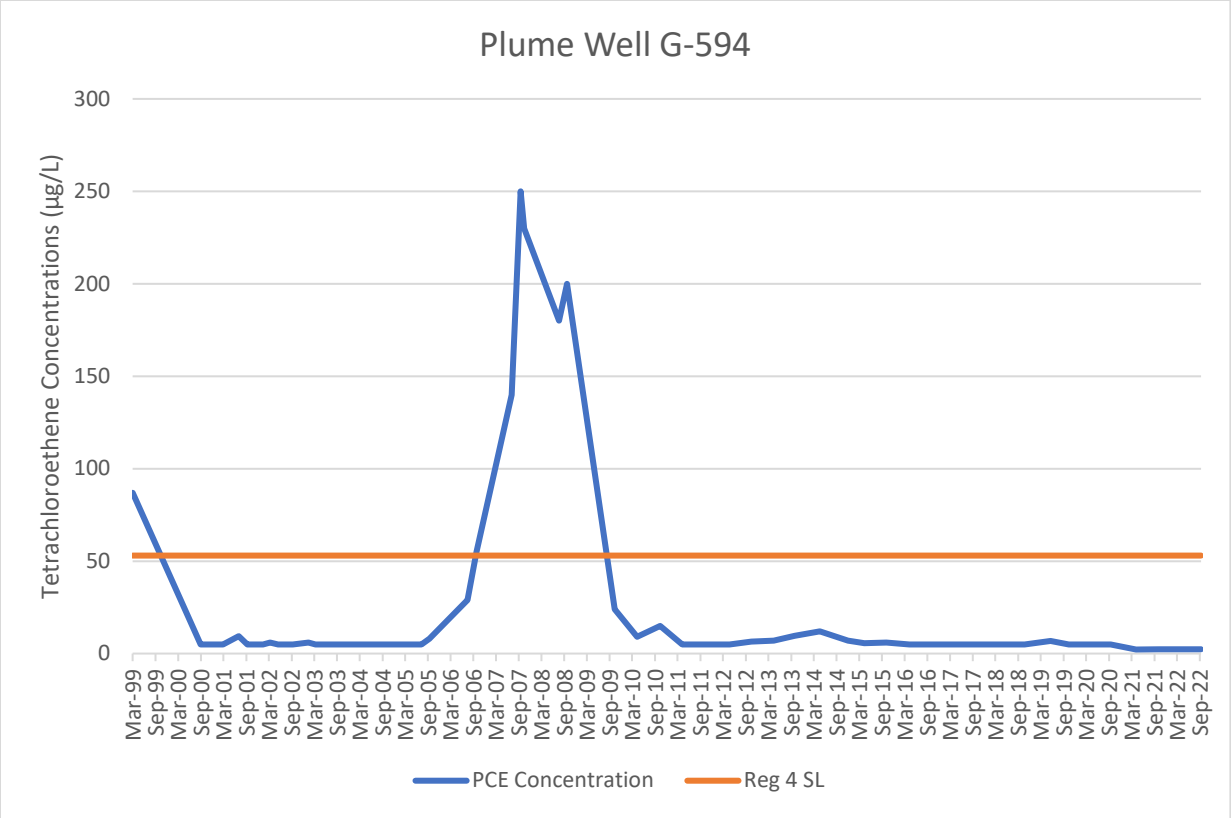
Sep-21
Mar-22
Sep-22
PCE Concentration
Reg 4 SL


Plume Well G-594
Tetrachloroethene Concentrations (µg/L)
300
250
200
150
100
50
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
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Sep-05
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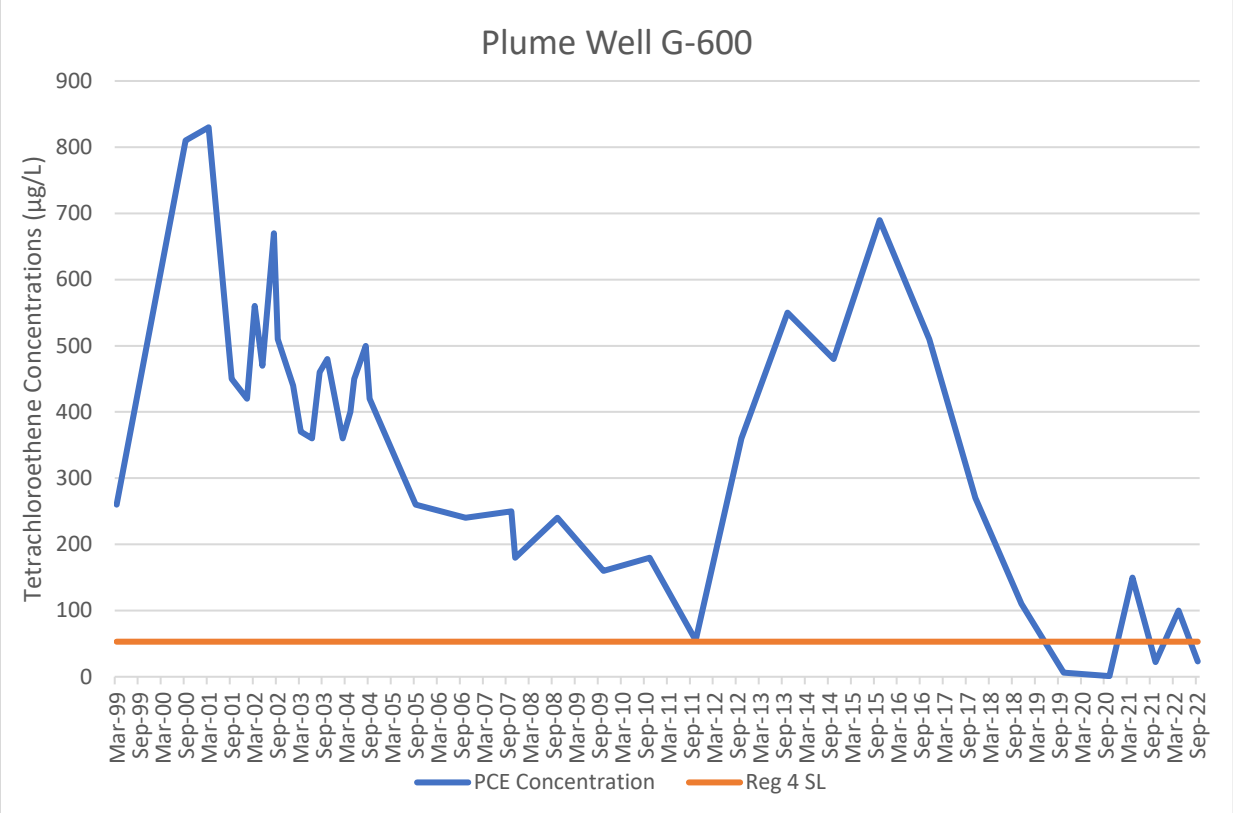
Mar-22
Sep-22
PCE Concentration
Reg 4 SL


Plume Well G-600
Tetrachloroethene Concentrations (µg/L)
900
800
700
600
500
400
300
200
100
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
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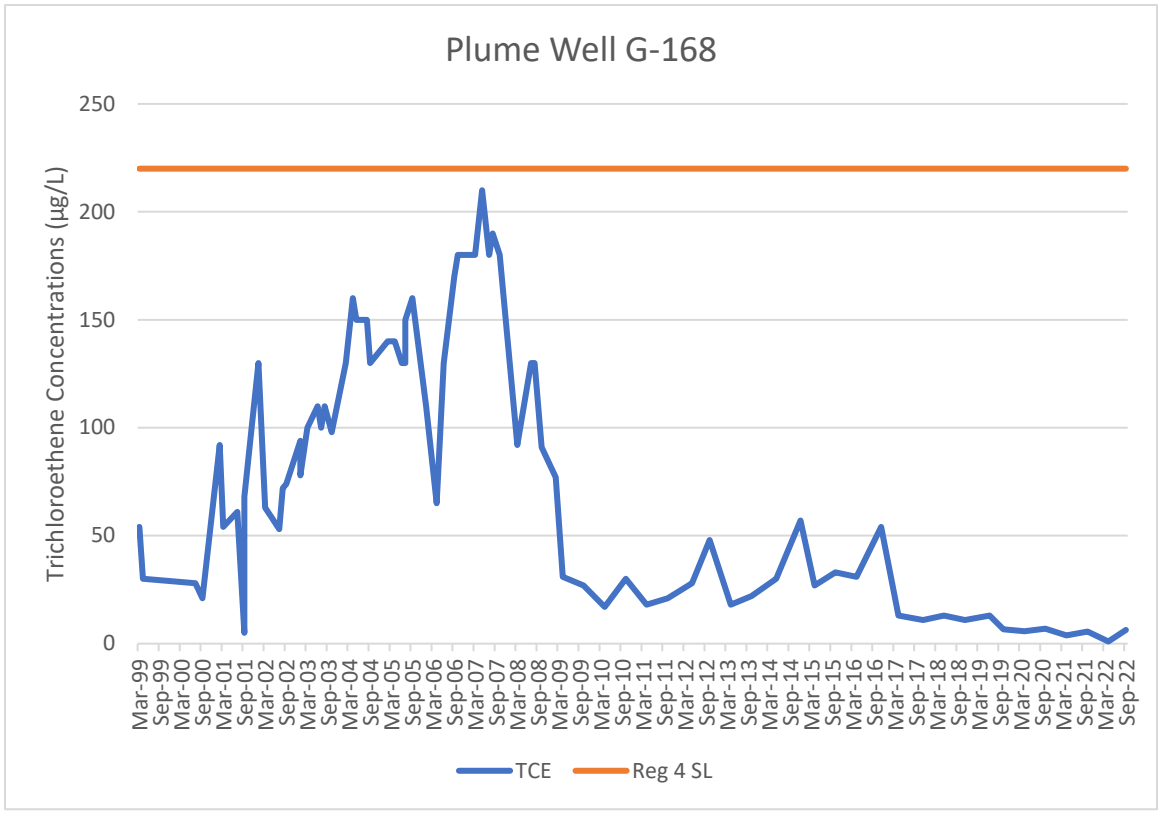
Mar-20
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
PCE Concentration
Reg 4 SL


Plume Well G-168
Trichloroethene Concentrations (µg/L)
250
200
150
100
50
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
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Mar-12
Sep-12
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Sep-13
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Mar-15
Sep-15
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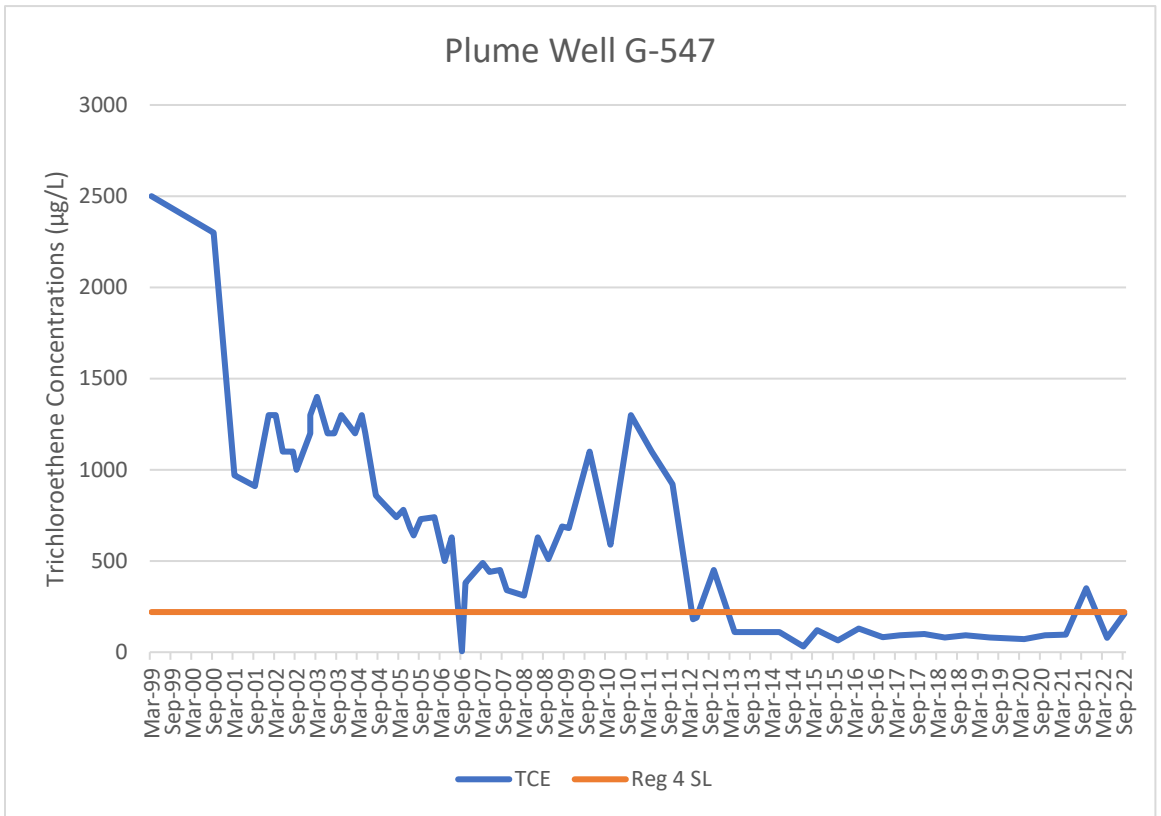
Sep-19
Mar-20
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
TCE
Reg 4 SL


Plume Well G-547
Trichloroethene Concentrations (µg/L)
3000
2500
2000
1500
1000
500
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
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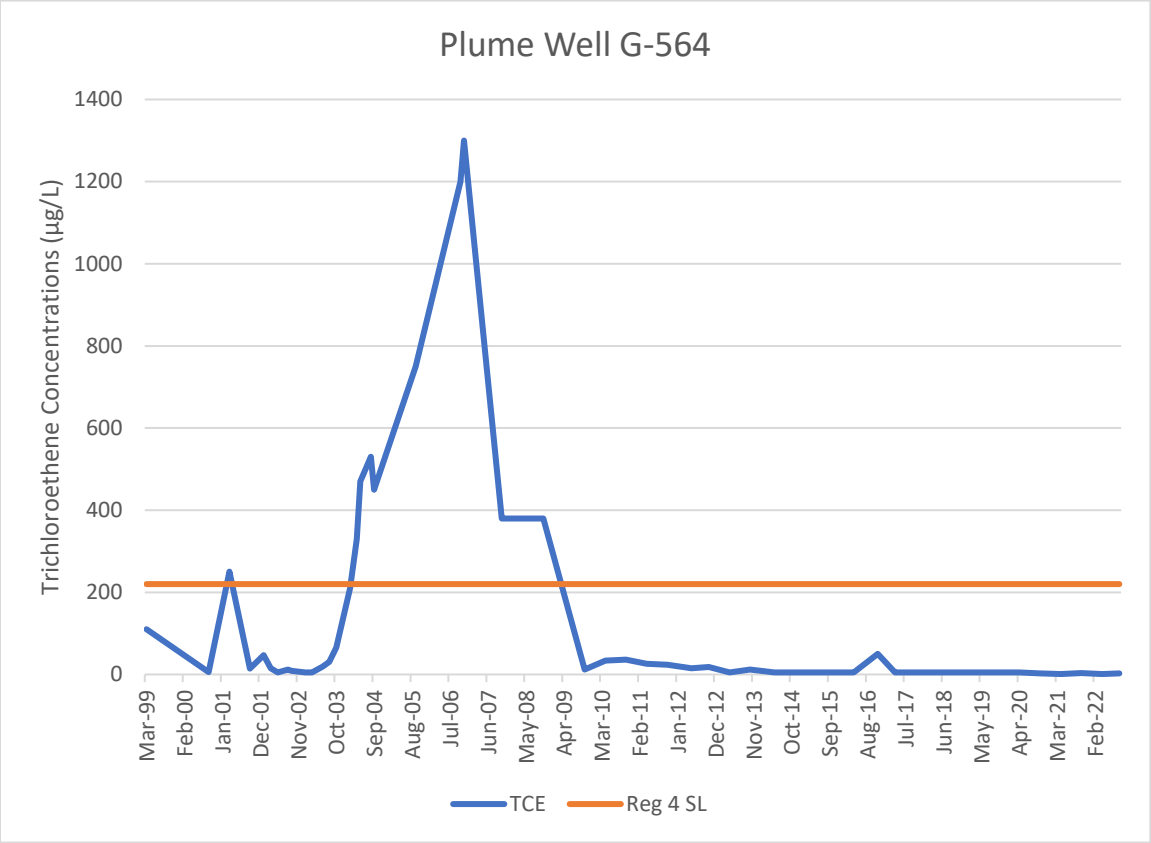
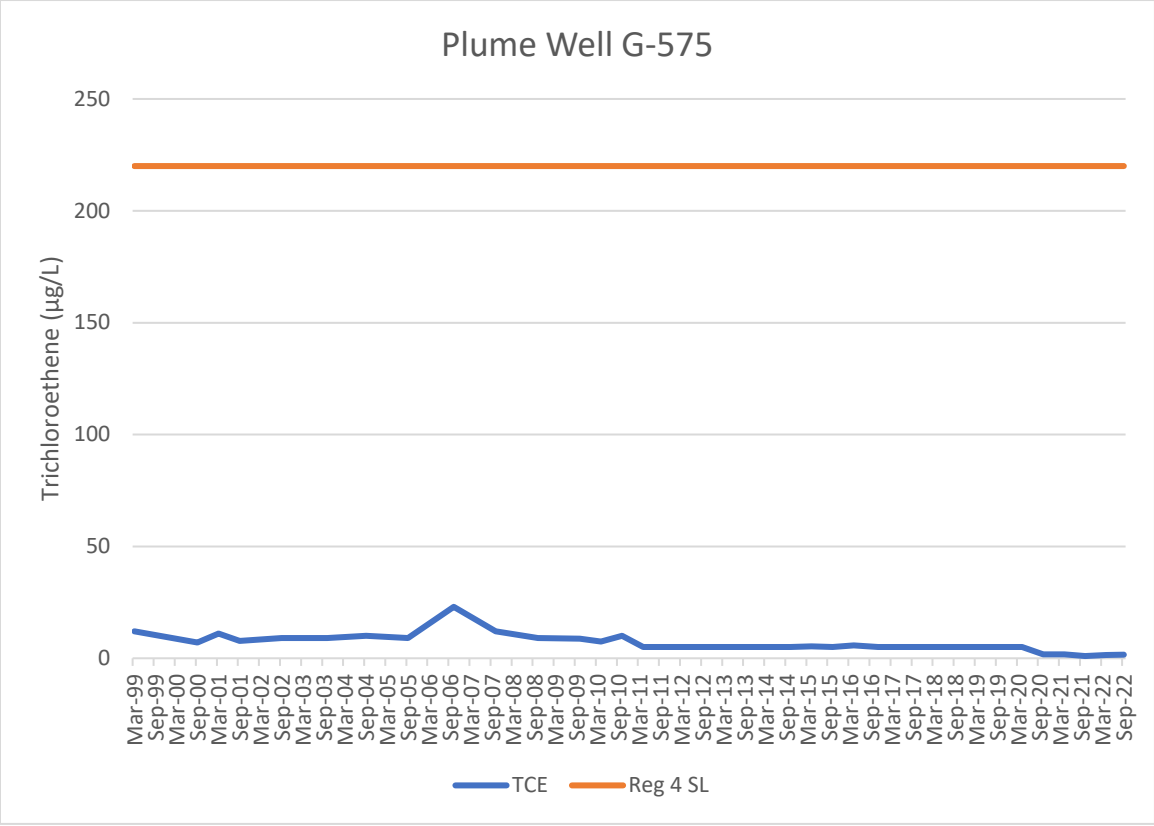
Mar-19
Sep-19
Mar-20
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
TCE
Reg 4 SL


Plume Well G-564
Trichloroethene Concentrations (µg/L)
1400
1200
1000
800
600
400
200
0
Mar-99
Feb-00
Jan-01
Dec-01
Nov-02
Oct-03
Sep-04
Aug-05
Jul-06
Jun-07
May-08
Apr-09
Mar-10
Feb-11
Jan-12
Dec-12
Nov-13
Oct-14
Sep-15
Aug-16
Jul-17
Jun-18
May-19
Apr-20
Mar-21
Feb-22
TCE
Reg 4 SL


Plume Well G-575
Trichloroethene (µg/L)
250
200
150
100
50
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
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Sep-17
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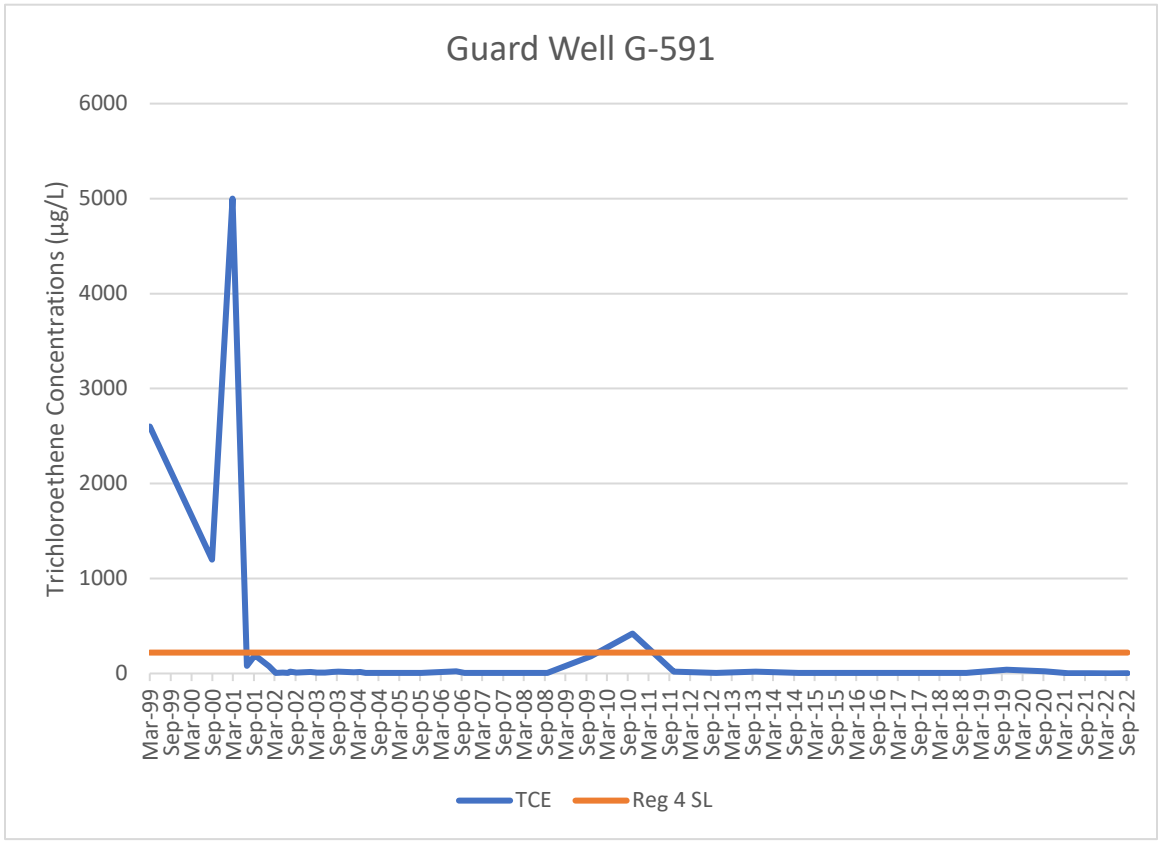
Sep-18
Mar-19
Sep-19
Mar-20
Sep-20
Mar-21
Sep-21
Mar-22
Sep-22
TCE
Reg 4 SL


Guard Well G-591
Trichloroethene Concentrations (µg/L)
6000
5000
4000
3000
2000
1000
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
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Sep-15
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Mar-19
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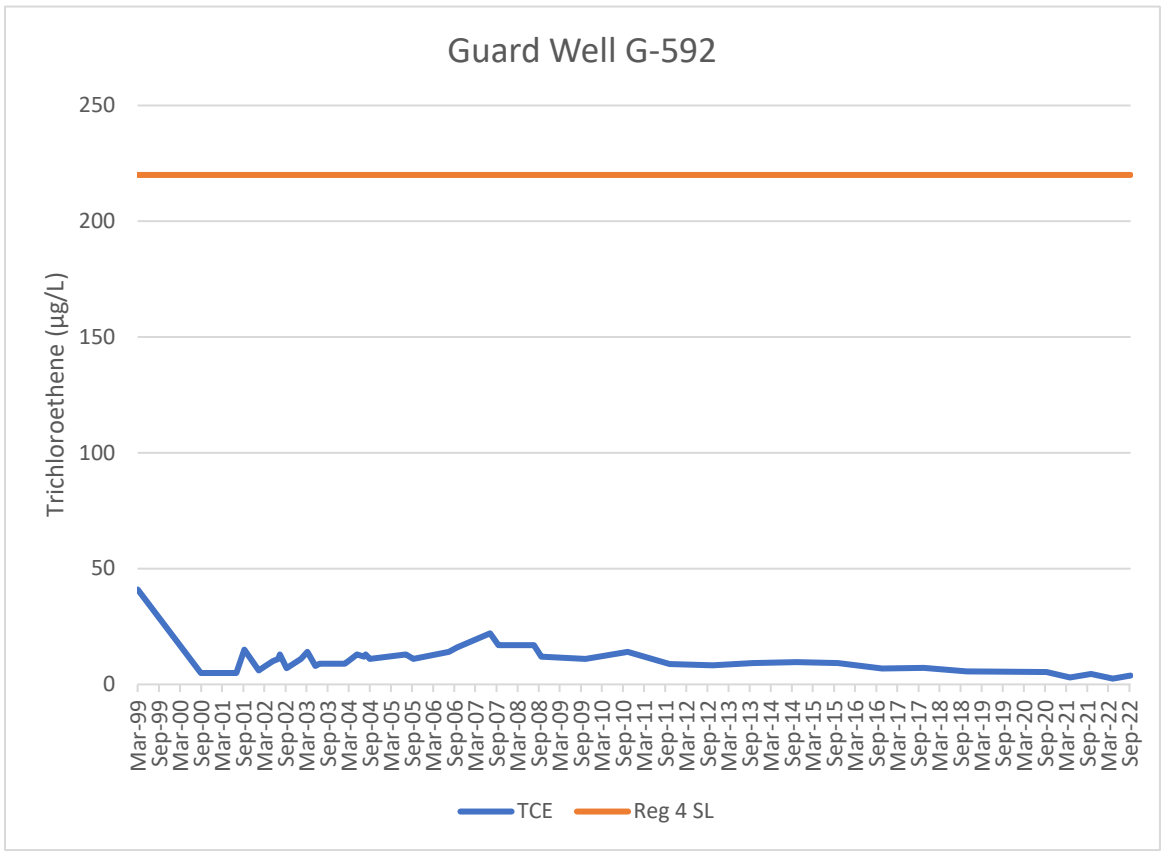
Sep-21
Mar-22
Sep-22
TCE
Reg 4 SL


Guard Well G-592
Trichloroethene (µg/L)
250
200
150
100
50
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
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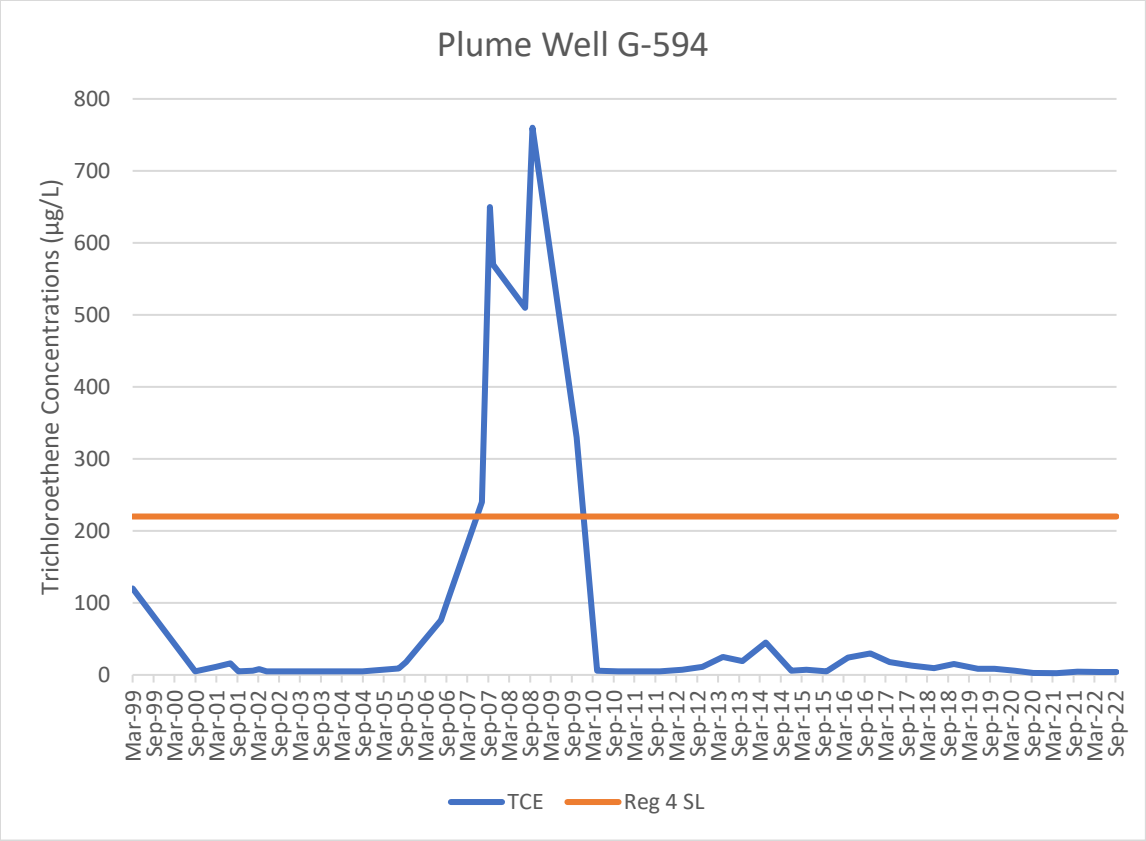
Mar-22
Sep-22
TCE
Reg 4 SL


Plume Well G-594
Trichloroethene Concentrations (µg/L)
800
700
600
500
400
300
200
100
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
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Sep-20
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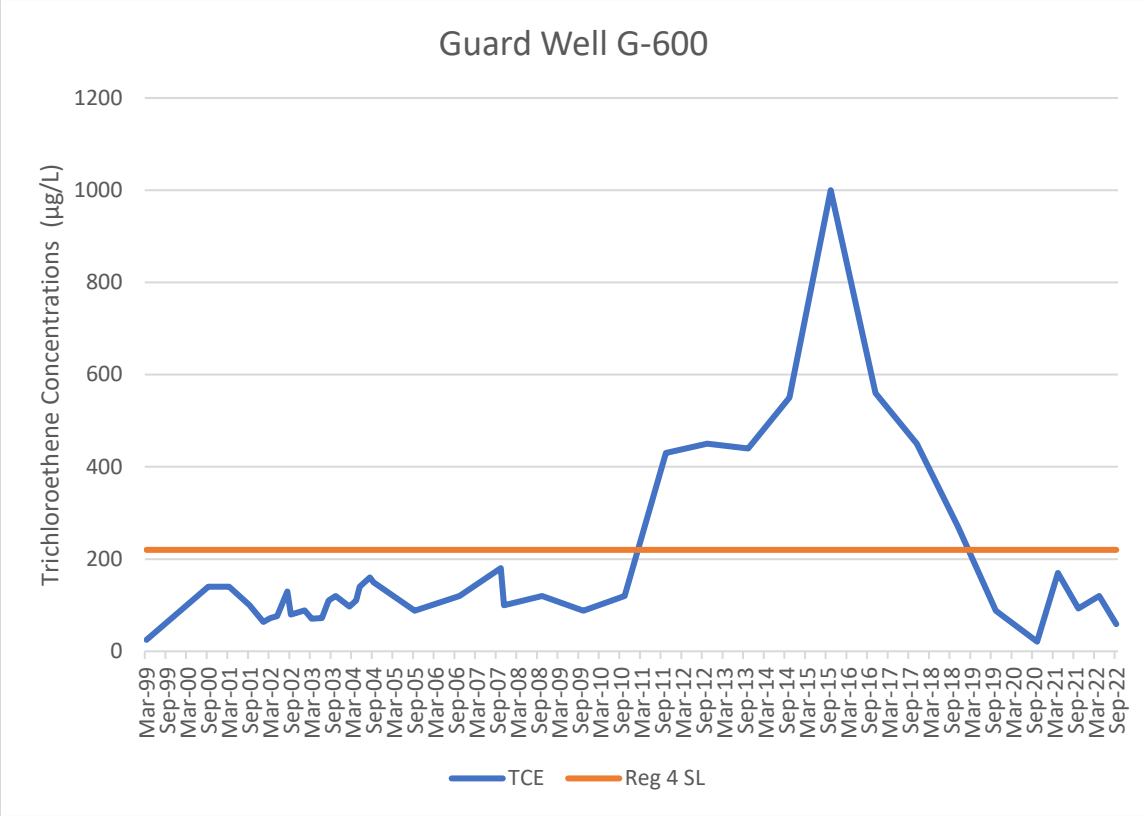
Sep-21
Mar-22
Sep-22
TCE
Reg 4 SL


Guard Well G-600
Trichloroethene Concentrations (µg/L)
1200
1000
800
600
400
200
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
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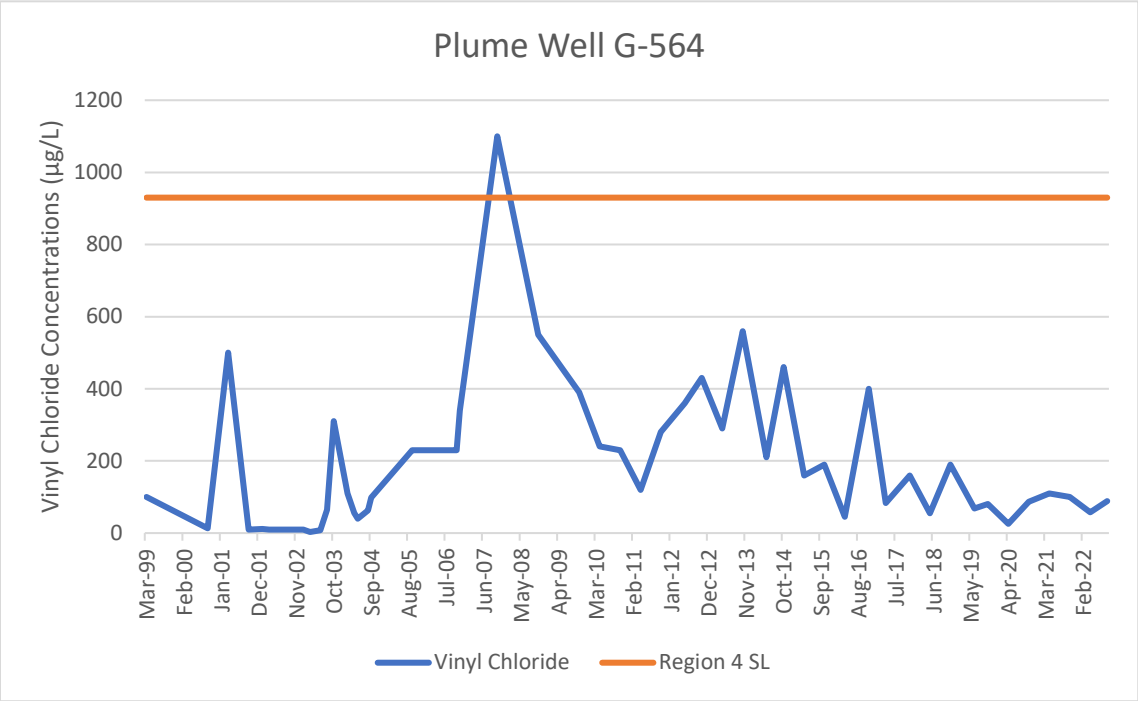
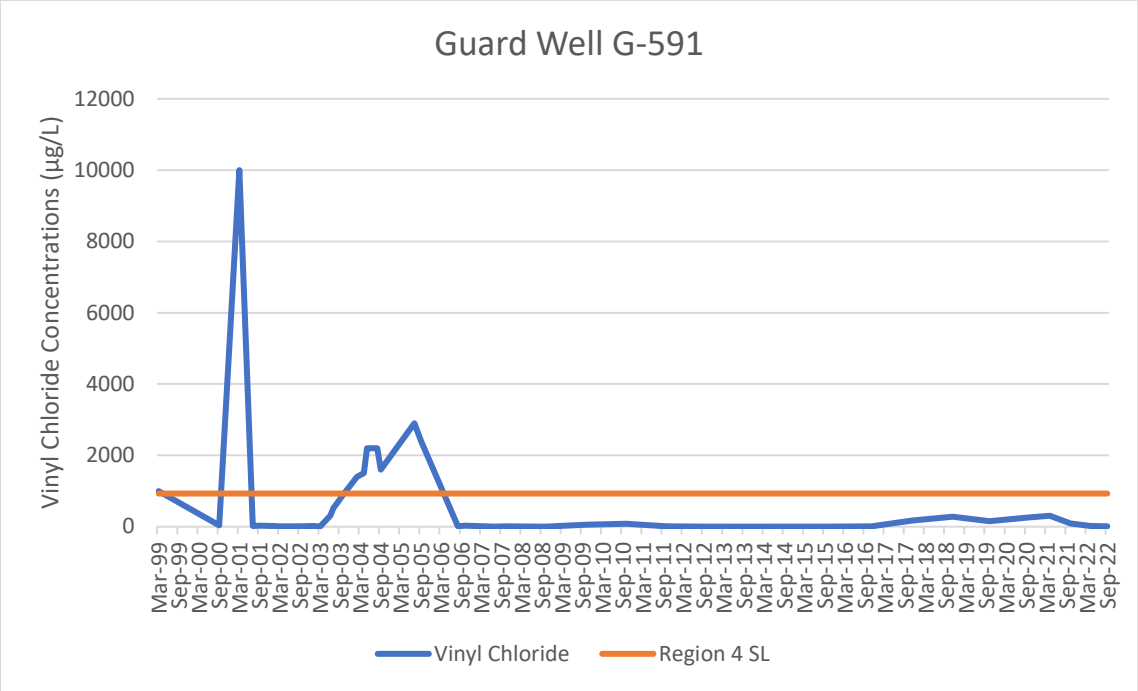
Sep-21
Mar-22
Sep-22
TCE
Reg 4 SL


Plume Well G-564
Vinyl Chloride Concentrations (µg/L)
1200
1000
800
600
400
200
0
Mar-99
Feb-00
Jan-01
Dec-01
Nov-02
Oct-03
Sep-04
Aug-05
Jul-06
Jun-07
May-08
Apr-09
Mar-10
Feb-11
Jan-12
Dec-12
Nov-13
Oct-14
Sep-15
Aug-16
Jul-17
Jun-18
May-19
Apr-20
Mar-21
Feb-22
Vinyl Chloride
Region 4 SL


Guard Well G-591
Vinyl Chloride Concentrations (µg/L)
12000
10000
8000
6000
4000
2000
0
Mar-99
Sep-99
Mar-00
Sep-00
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Sep-06
Mar-07
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
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Mar-12
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Sep-13
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Sep-14
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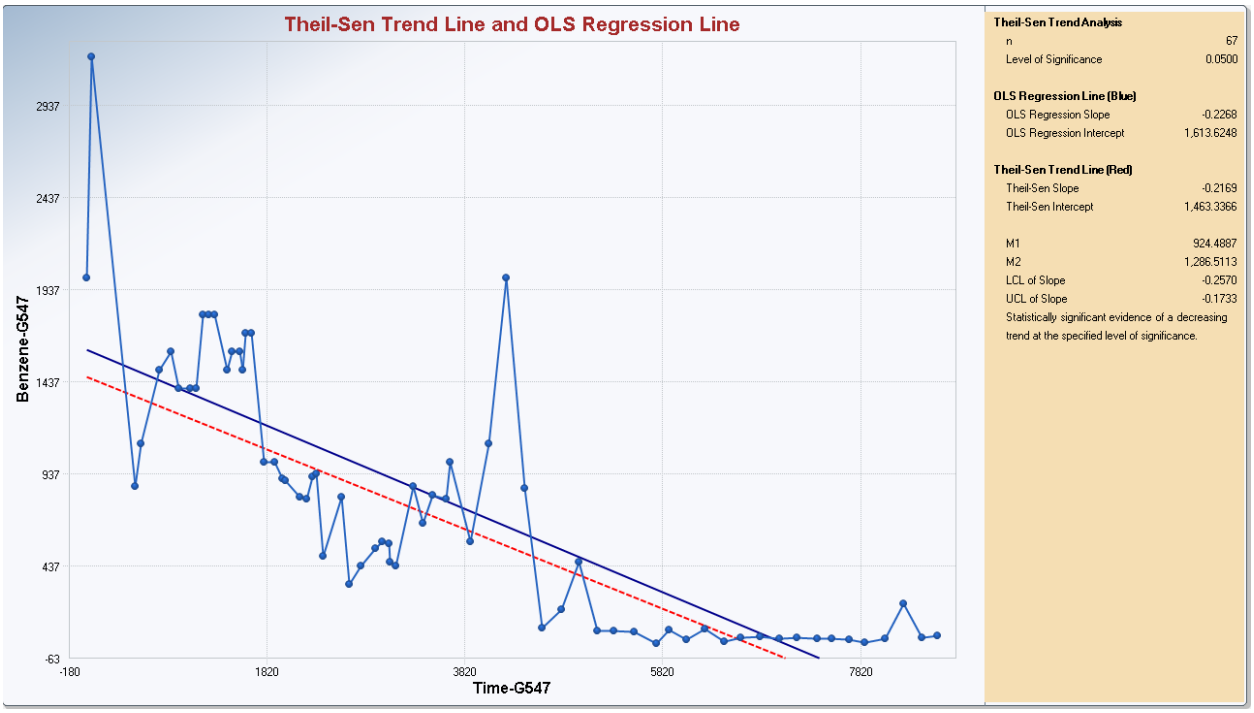
Sep-21
Mar-22
Sep-22
Vinyl Chloride
Region 4 SL

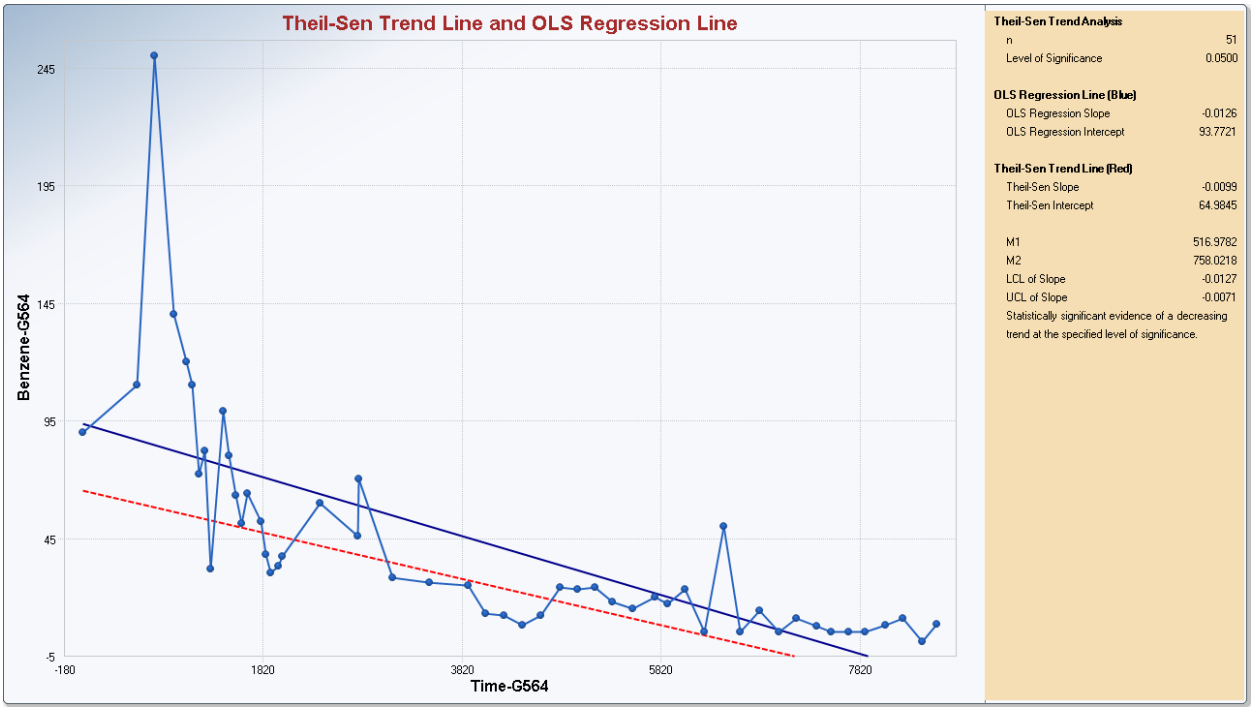
APPENDIX B.2

Trend Analysis (ProUCL)



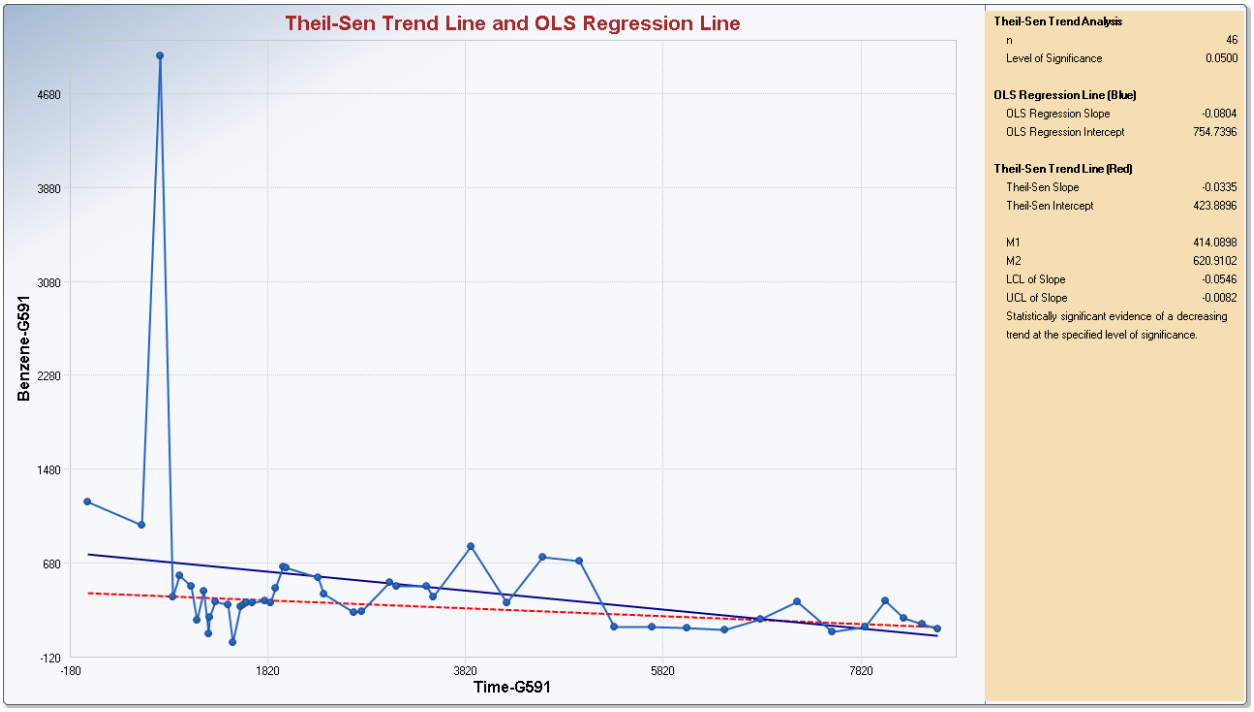
Theil-Sen Trend Analysis	
n	67
Level of Significance	0.0500
OLS Regression Line (Blue)	
OLS Regression Slope	-0.2268
OLS Regression Intercept	1,613.6248
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-0.2169
Theil-Sen Intercept	1,463.3366
M1	924.4887
M2	1,286.5113
LCL of Slope	-0.2570
UCL of Slope	-0.1733

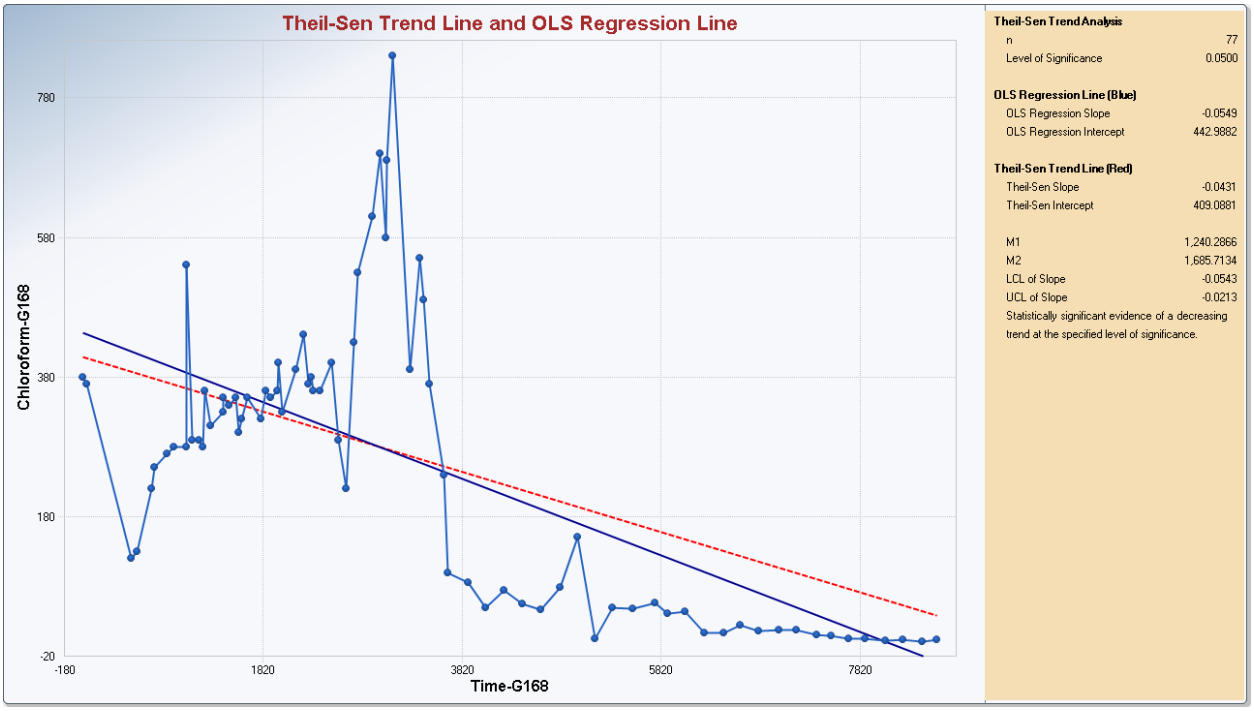
Statistically significant evidence of a decreasing trend at the specified level of significance.

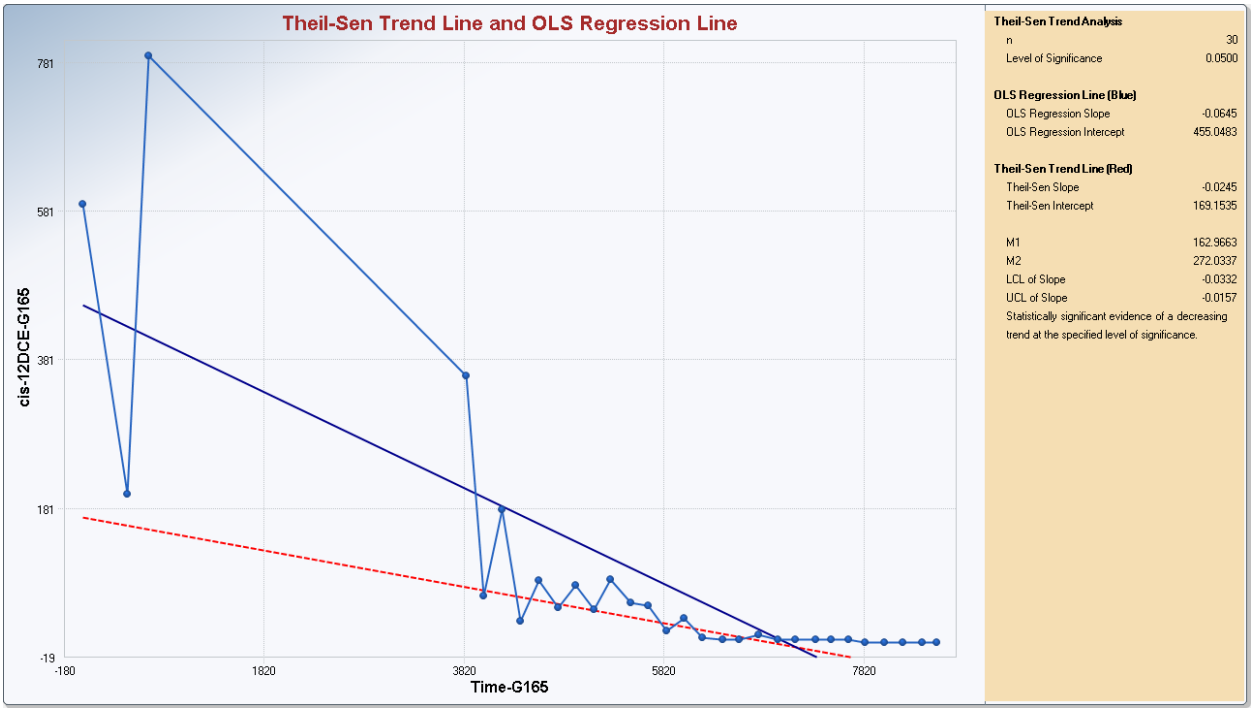


Theil-Sen Trend Analysis	
n	51
Level of Significance	0.0500
OLS Regression Line (Blue)	
OLS Regression Slope	-0.0126
OLS Regression Intercept	93.7721
Theil-Sen Trend Line (Red)	
Theil-Sen Slope	-0.0099
Theil-Sen Intercept	64.9845
M1	516.9782
M2	758.0218
LCL of Slope	-0.0127
UCL of Slope	-0.0071

Statistically significant evidence of a decreasing trend at the specified level of significance.


Theil-Sen Trend Line and OLS Regression Line
Benzene-G591
Time-G591
4680
3880
3080
2280
1480
680
-120
-180
1820
3820
5820
7820
Theil-Sen Trend Analysis
n 46
Level of Significance 0.0500
OLS Regression Line (Blue)
OLS Regression Slope -0.0804
OLS Regression Intercept 754.7396
Theil-Sen Trend Line (Red)
Theil-Sen Slope -0.0335
Theil-Sen Intercept 423.8896
M1 414.0898
M2 620.9102
LCL of Slope -0.0546
UCL of Slope -0.0082
Statistically significant evidence of a decreasing trend at the specified level of significance.


Theil-Sen Trend Line and OLS Regression Line
Chloroform-G168
Time-G168
780
580
380
180
-20
-180
1820
3820
5820
7820
Theil-Sen Trend Analysis
n 77
Level of Significance 0.0500
OLS Regression Line (Blue)
OLS Regression Slope -0.0549
OLS Regression Intercept 442.9882
Theil-Sen Trend Line (Red)
Theil-Sen Slope -0.0431
Theil-Sen Intercept 409.0881
M1 1,240.2866
M2 1,685.7134
LCL of Slope -0.0543
UCL of Slope -0.0213
Statistically significant evidence of a decreasing trend at the specified level of significance.



Theil-Sen Trend Analysis

n	30
Level of Significance	0.0500

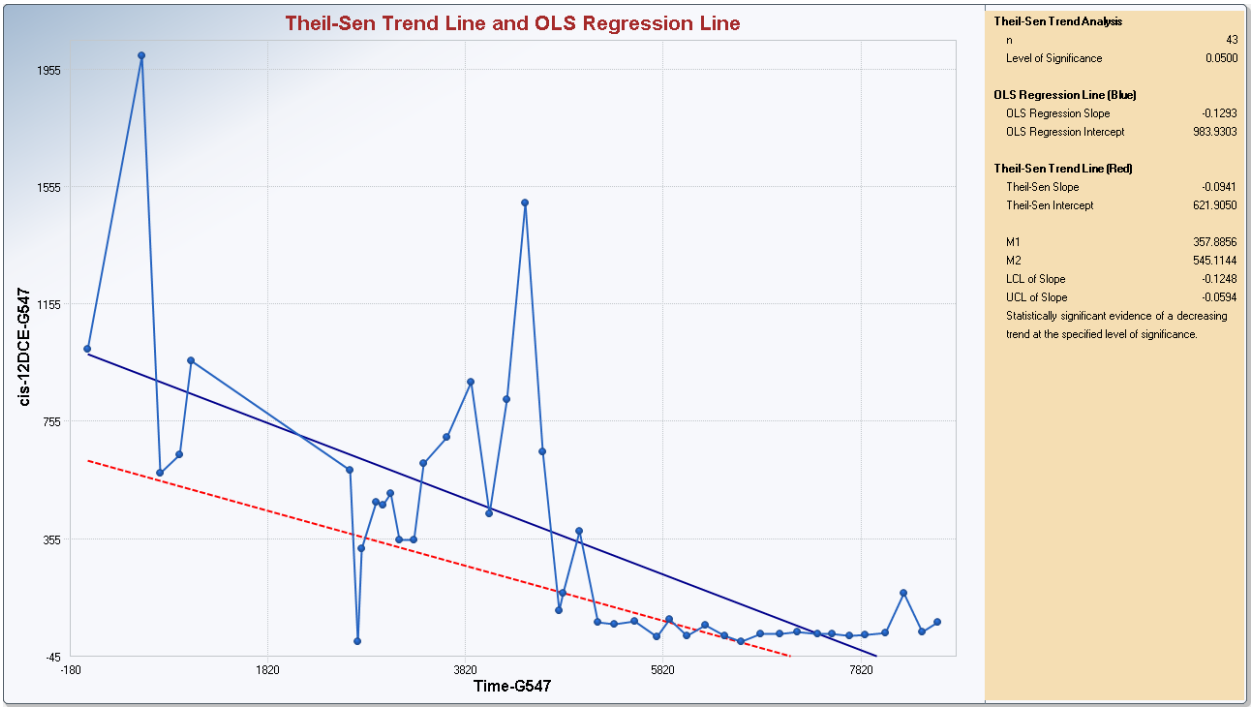
OLS Regression Line (Blue)

OLS Regression Slope	-0.0645
OLS Regression Intercept	455.0483

Theil-Sen Trend Line (Red)

Theil-Sen Slope	-0.0245
Theil-Sen Intercept	169.1535
M1	162.9663
M2	272.0337
LCL of Slope	-0.0332
UCL of Slope	-0.0157

Statistically significant evidence of a decreasing trend at the specified level of significance.



Theil-Sen Trend Analysis

n	43
Level of Significance	0.0500

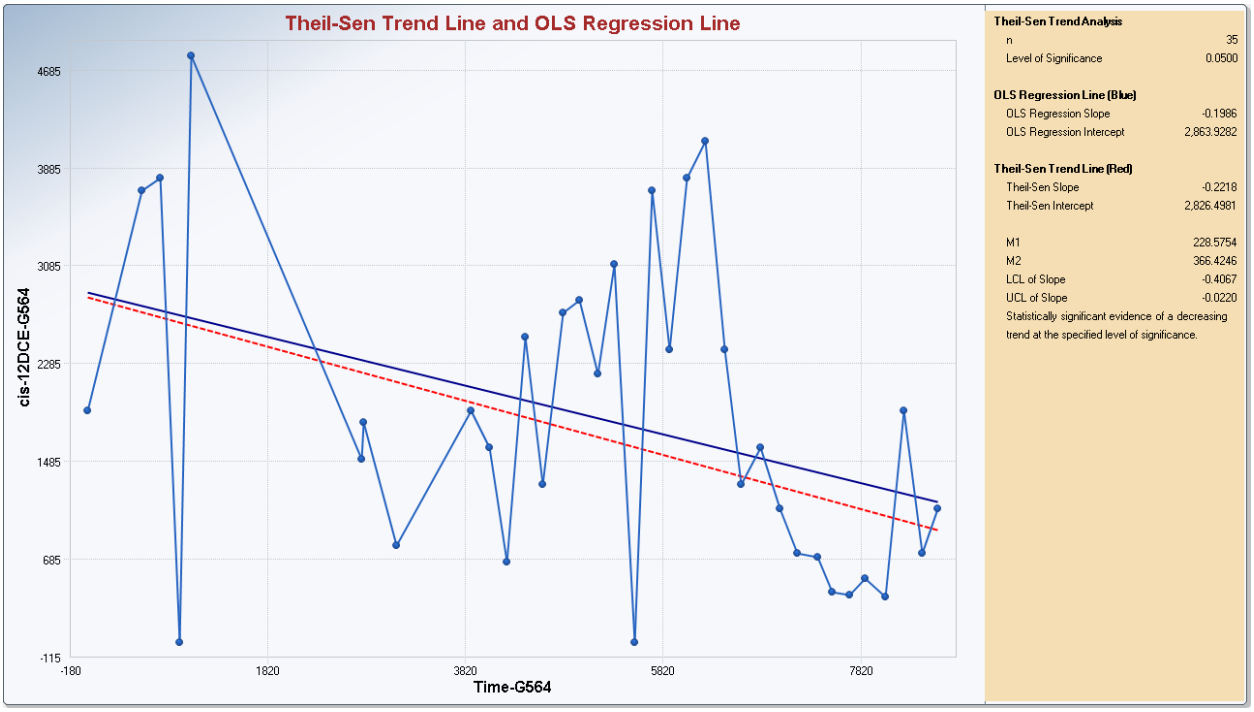
OLS Regression Line (Blue)

OLS Regression Slope	-0.1293
OLS Regression Intercept	983.9303

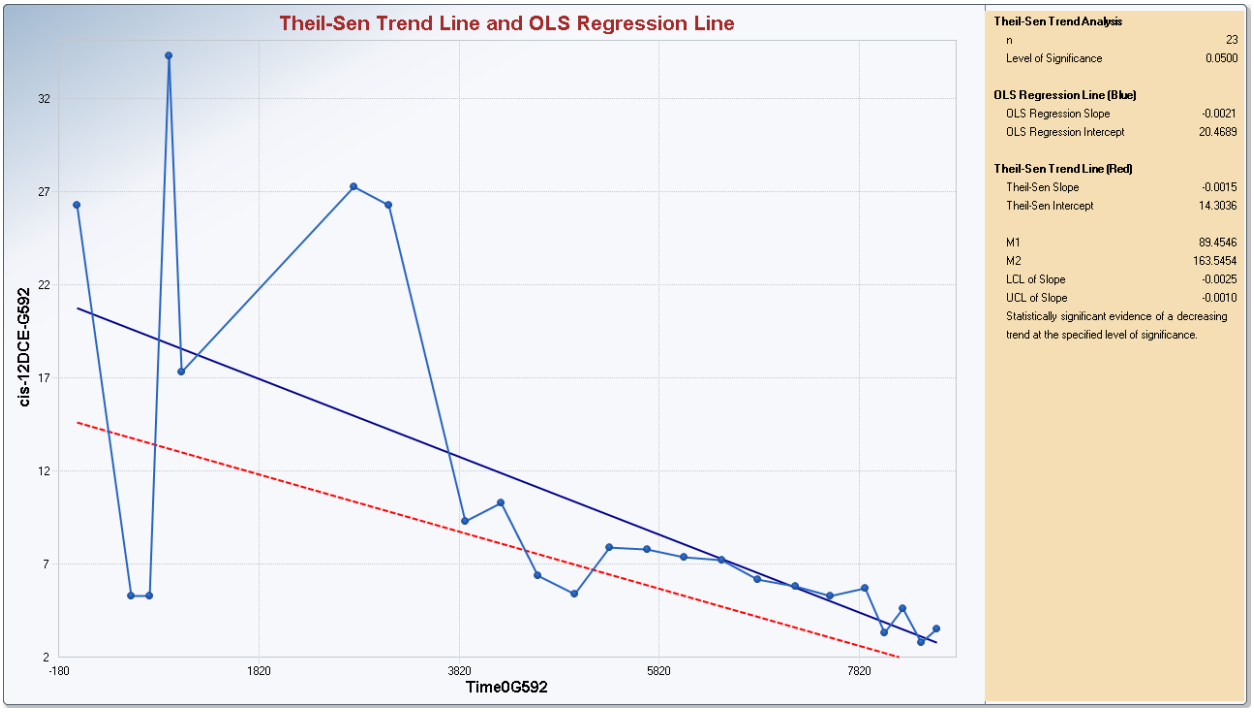
Theil-Sen Trend Line (Red)

Theil-Sen Slope	-0.0941
Theil-Sen Intercept	621.9050
M1	357.8856
M2	545.1144
LCL of Slope	-0.1248
UCL of Slope	-0.0594

Statistically significant evidence of a decreasing trend at the specified level of significance.


Theil-Sen Trend Line and OLS Regression Line
cis-12DCE-G564
4685
3885
3085
2285
1485
685
-115
-180
1820
3820
5820
7820
Time-G564
Theil-Sen Trend Analysis
n 35
Level of Significance 0.0500
OLS Regression Line (Blue)
OLS Regression Slope -0.1986
OLS Regression Intercept 2,863.9282
Theil-Sen Trend Line (Red)
Theil-Sen Slope -0.2218
Theil-Sen Intercept 2,826.4981
M1 228.5754
M2 366.4246
LCL of Slope -0.4067
UCL of Slope -0.0220
Statistically significant evidence of a decreasing trend at the specified level of significance.


Theil-Sen Trend Line and OLS Regression Line
cis-12DCE-G591
19455
15455
11455
7455
3455
-545
-180
1820
3820
5820
7820
Time-G591
Theil-Sen Trend Analysis
n 23
Level of Significance 0.0500
OLS Regression Line (Blue)
OLS Regression Slope -1.7097
OLS Regression Intercept 11,719.3456
Theil-Sen Trend Line (Red)
Theil-Sen Slope -0.0290
Theil-Sen Intercept 238.5882
M1 89.4546
M2 163.5454
LCL of Slope -1.1636
UCL of Slope 0.0013
Insufficient evidence to identify a significant trend at the specified level of significance.



Theil-Sen Trend Analysis

n	23
Level of Significance	0.0500

OLS Regression Line (Blue)

OLS Regression Slope	-0.0021
OLS Regression Intercept	20.4689

Theil-Sen Trend Line (Red)

Theil-Sen Slope	-0.0015
Theil-Sen Intercept	14.3036
M1	89.4546
M2	163.5454
LCL of Slope	-0.0025
UCL of Slope	-0.0010

Statistically significant evidence of a decreasing trend at the specified level of significance.

Theil-Sen Trend Analysis

n	34
Level of Significance	0.0500

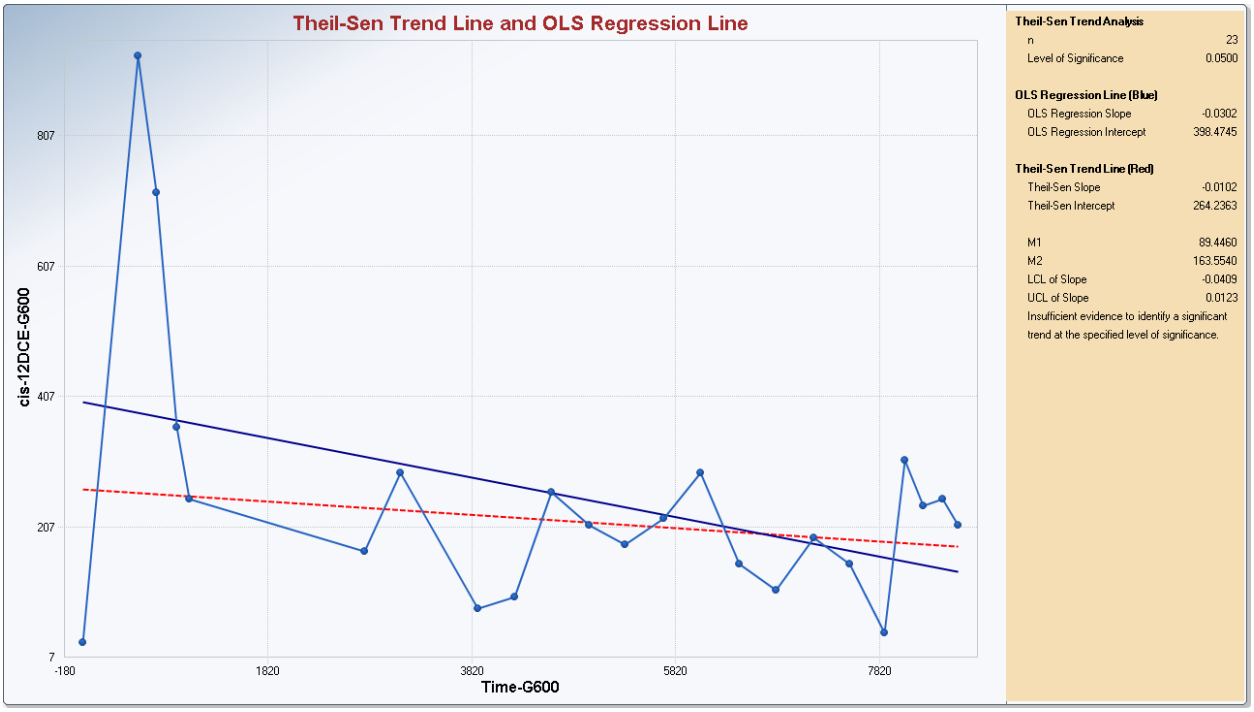
OLS Regression Line (Blue)

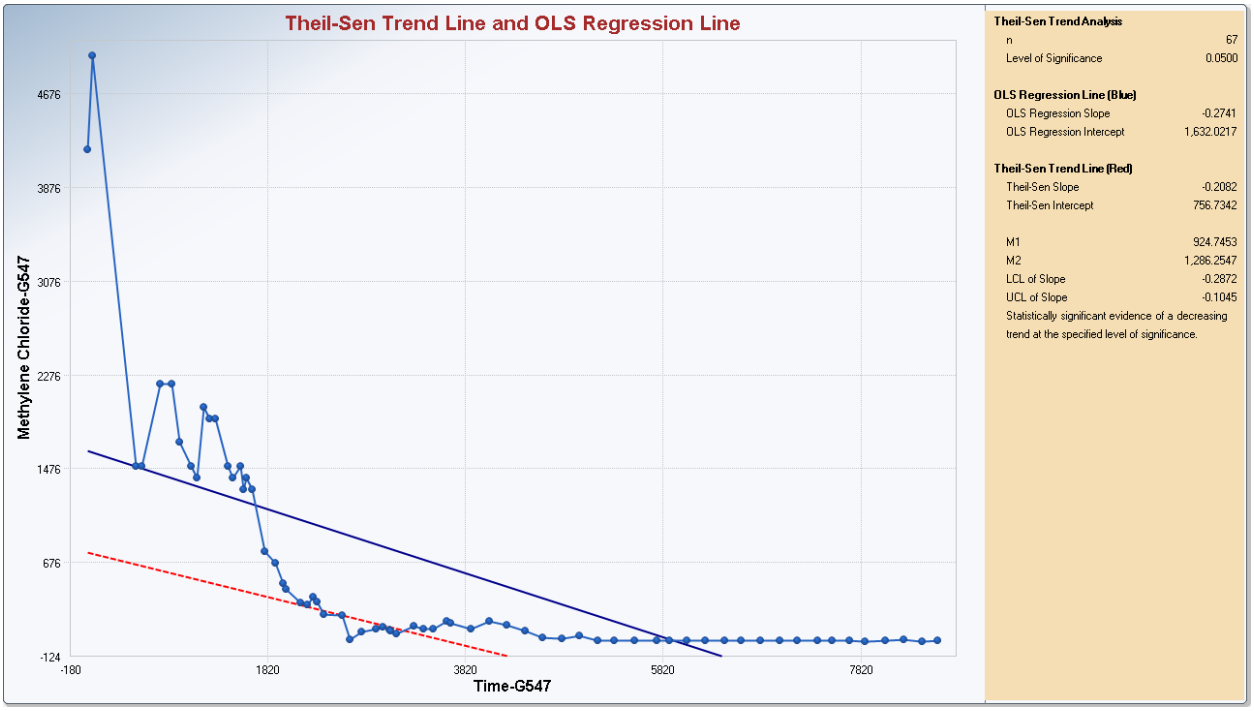
OLS Regression Slope	-0.1508
OLS Regression Intercept	1,123.6524

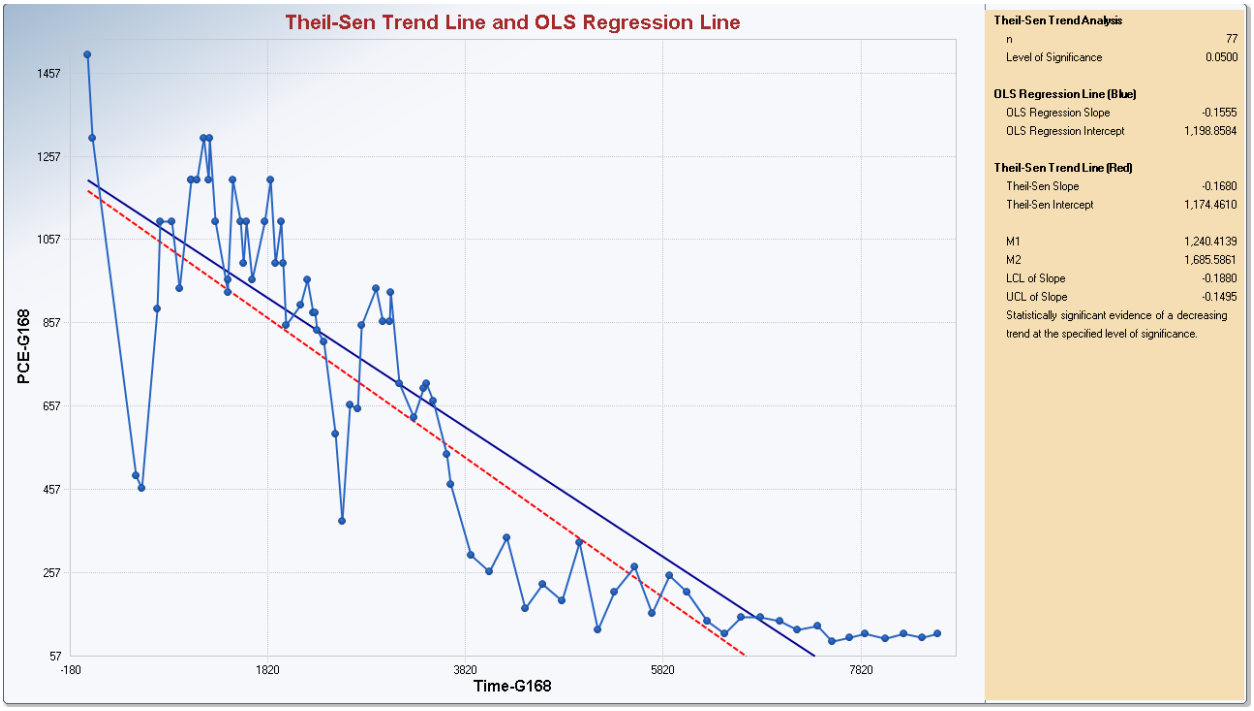
Theil-Sen Trend Line (Red)

Theil-Sen Slope	-0.0229
Theil-Sen Intercept	208.2958
M1	214.4087
M2	346.5913
LCL of Slope	-0.0886
UCL of Slope	0.0007

Insufficient evidence to identify a significant trend at the specified level of significance.


Theil-Sen Trend Line and OLS Regression Line
cis-12DCE-G600
807
607
407
207
7
-180
1820
3820
5820
7820
Time-G600
Theil-Sen Trend Analysis
n 23
Level of Significance 0.0500
OLS Regression Line (Blue)
OLS Regression Slope -0.0302
OLS Regression Intercept 398.4745
Theil-Sen Trend Line (Red)
Theil-Sen Slope -0.0102
Theil-Sen Intercept 264.2363
M1 89.4460
M2 163.5540
LCL of Slope -0.0409
UCL of Slope 0.0123
Insufficient evidence to identify a significant trend at the specified level of significance.


Theil-Sen Trend Line and OLS Regression Line
Methylene Chloride-G547
4676
3876
3076
2276
1476
676
-124
-180
1820
3820
5820
7820
Time-G547
Theil-Sen Trend Analysis
n 67
Level of Significance 0.0500
OLS Regression Line (Blue)
OLS Regression Slope -0.2741
OLS Regression Intercept 1,632.0217
Theil-Sen Trend Line (Red)
Theil-Sen Slope -0.2082
Theil-Sen Intercept 756.7342
M1 924.7453
M2 1,286.2547
LCL of Slope -0.2872
UCL of Slope -0.1045
Statistically significant evidence of a decreasing trend at the specified level of significance.



Theil-Sen Trend Analysis

n	77
Level of Significance	0.0500

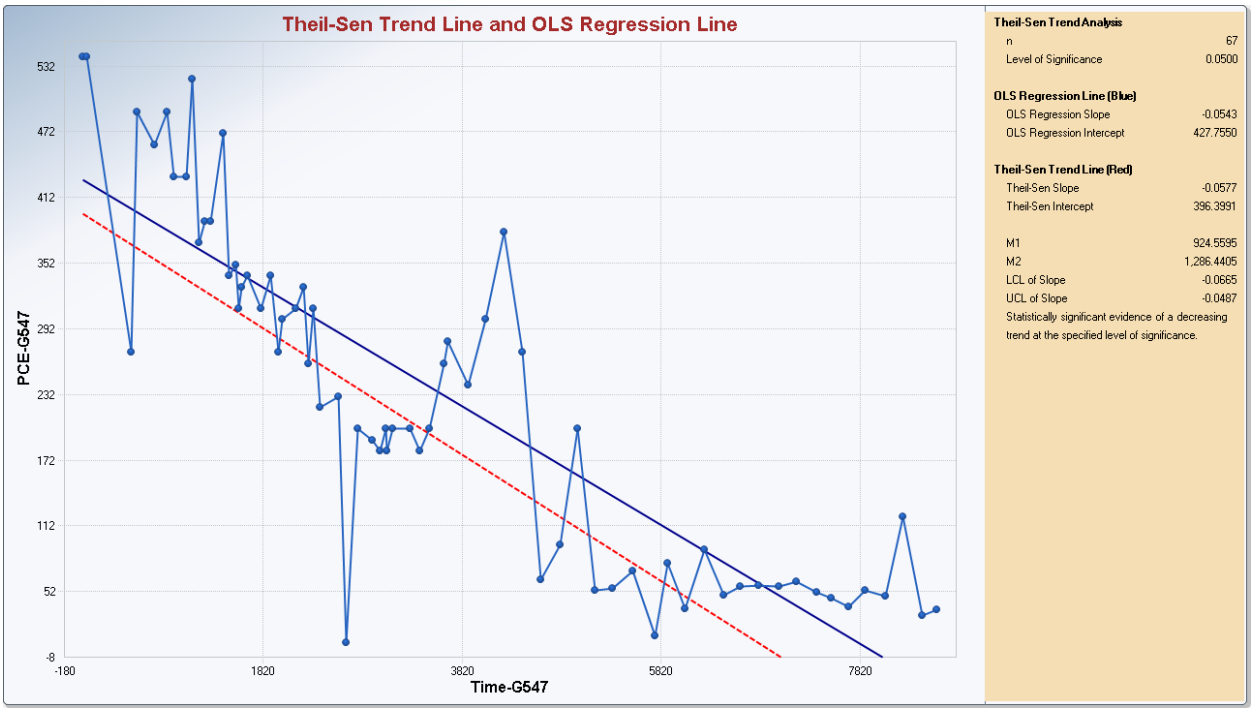
OLS Regression Line (Blue)

OLS Regression Slope	-0.1555
OLS Regression Intercept	1,198.8584

Theil-Sen Trend Line (Red)

Theil-Sen Slope	-0.1680
Theil-Sen Intercept	1,174.4610
M1	1,240.4139
M2	1,685.5861
LCL of Slope	-0.1880
UCL of Slope	-0.1495

Statistically significant evidence of a decreasing trend at the specified level of significance.



Theil-Sen Trend Analysis

n	67
Level of Significance	0.0500

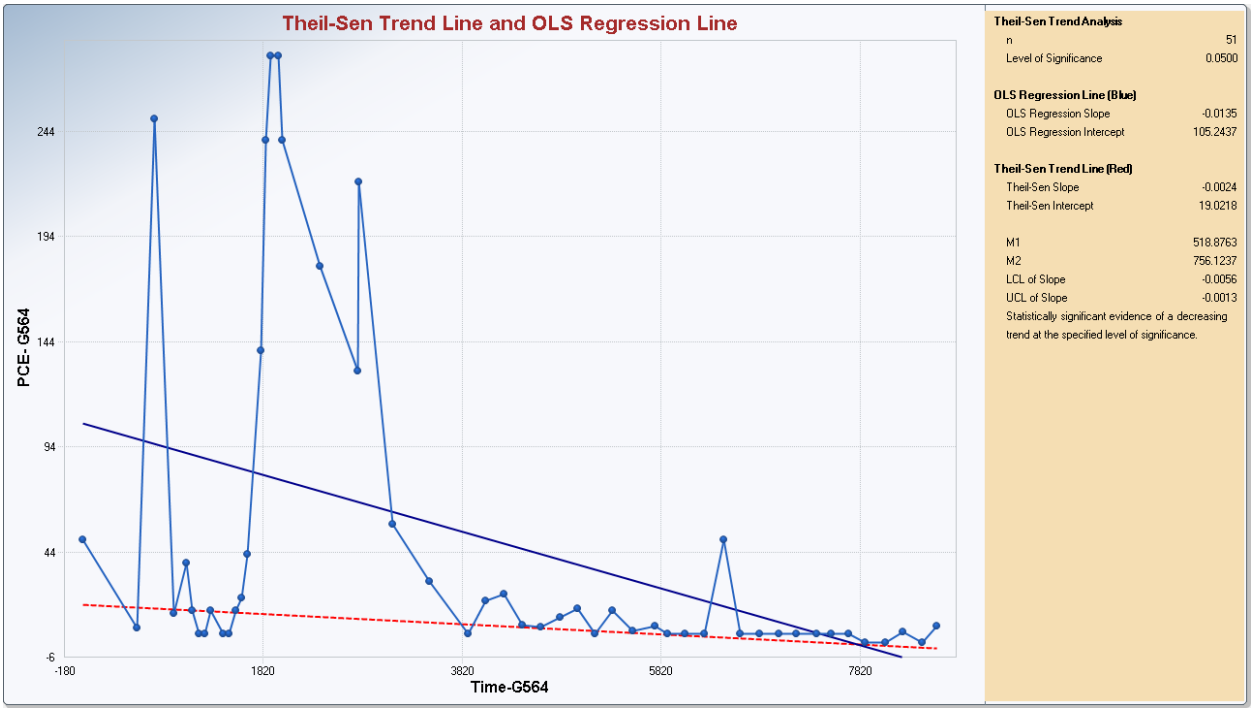
OLS Regression Line (Blue)

OLS Regression Slope	-0.0543
OLS Regression Intercept	427.7550

Theil-Sen Trend Line (Red)

Theil-Sen Slope	-0.0577
Theil-Sen Intercept	396.3991
M1	924.5595
M2	1,286.4405
LCL of Slope	-0.0665
UCL of Slope	-0.0487

Statistically significant evidence of a decreasing trend at the specified level of significance.



Theil-Sen Trend Analysis

n	51
Level of Significance	0.0500

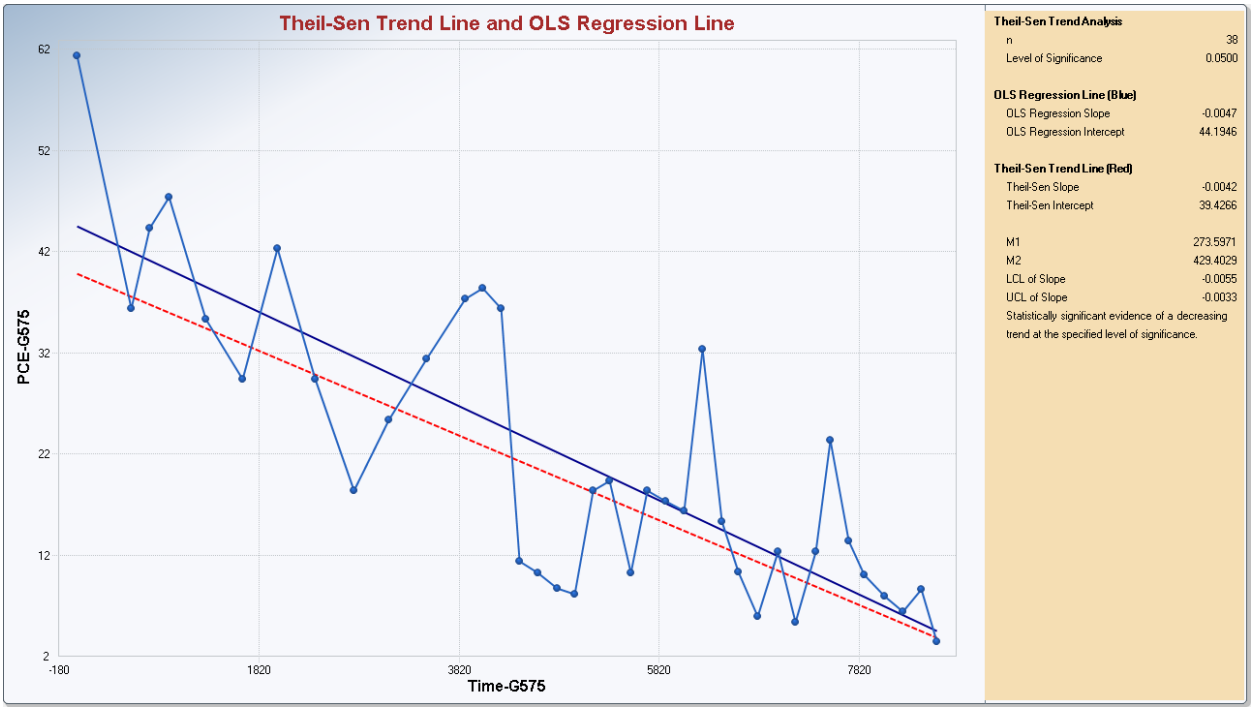
OLS Regression Line (Blue)

OLS Regression Slope	-0.0135
OLS Regression Intercept	105.2437

Theil-Sen Trend Line (Red)

Theil-Sen Slope	-0.0024
Theil-Sen Intercept	19.0218
M1	518.8763
M2	756.1237
LCL of Slope	-0.0056
UCL of Slope	-0.0013

Statistically significant evidence of a decreasing trend at the specified level of significance.



Theil-Sen Trend Analysis

n	38
Level of Significance	0.0500

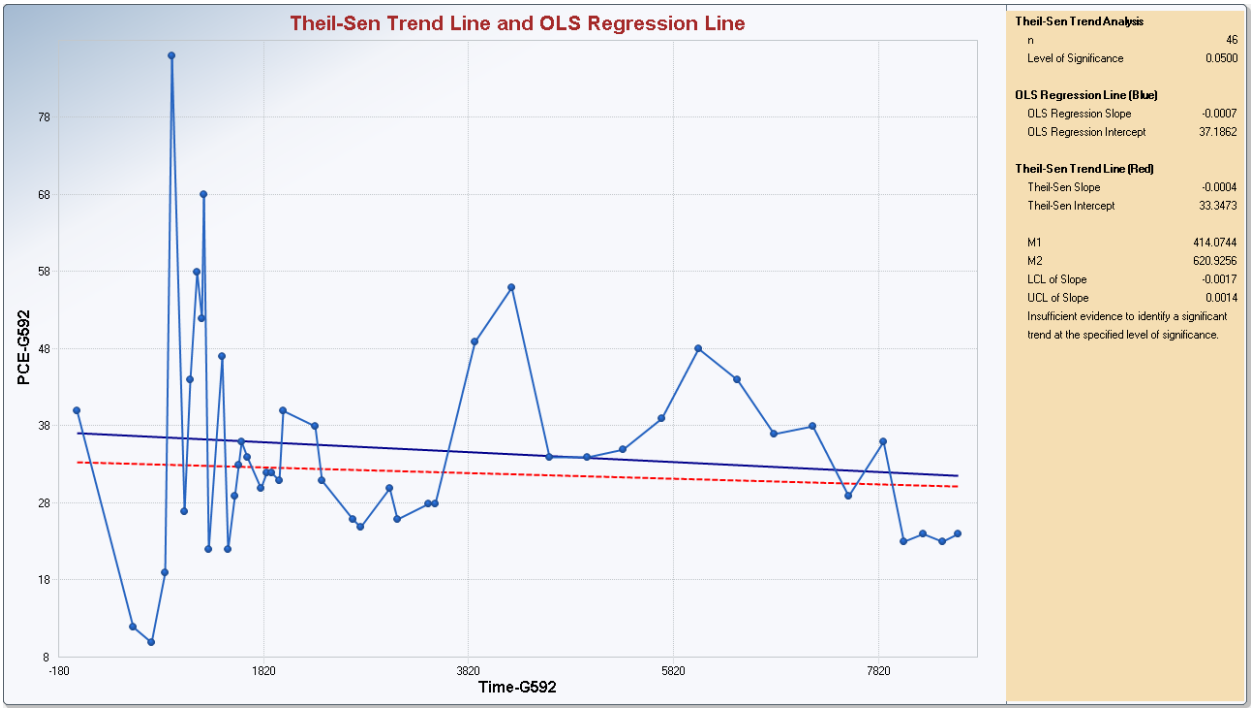
OLS Regression Line (Blue)

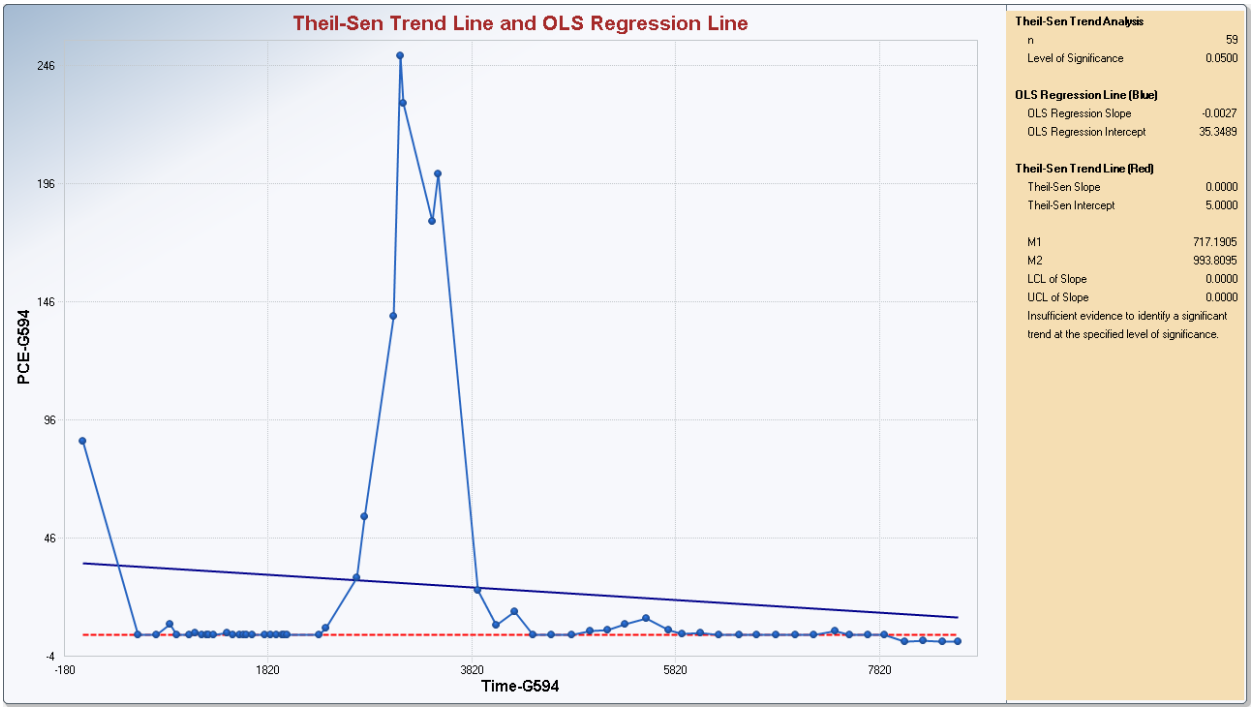
OLS Regression Slope	-0.0047
OLS Regression Intercept	44.1946

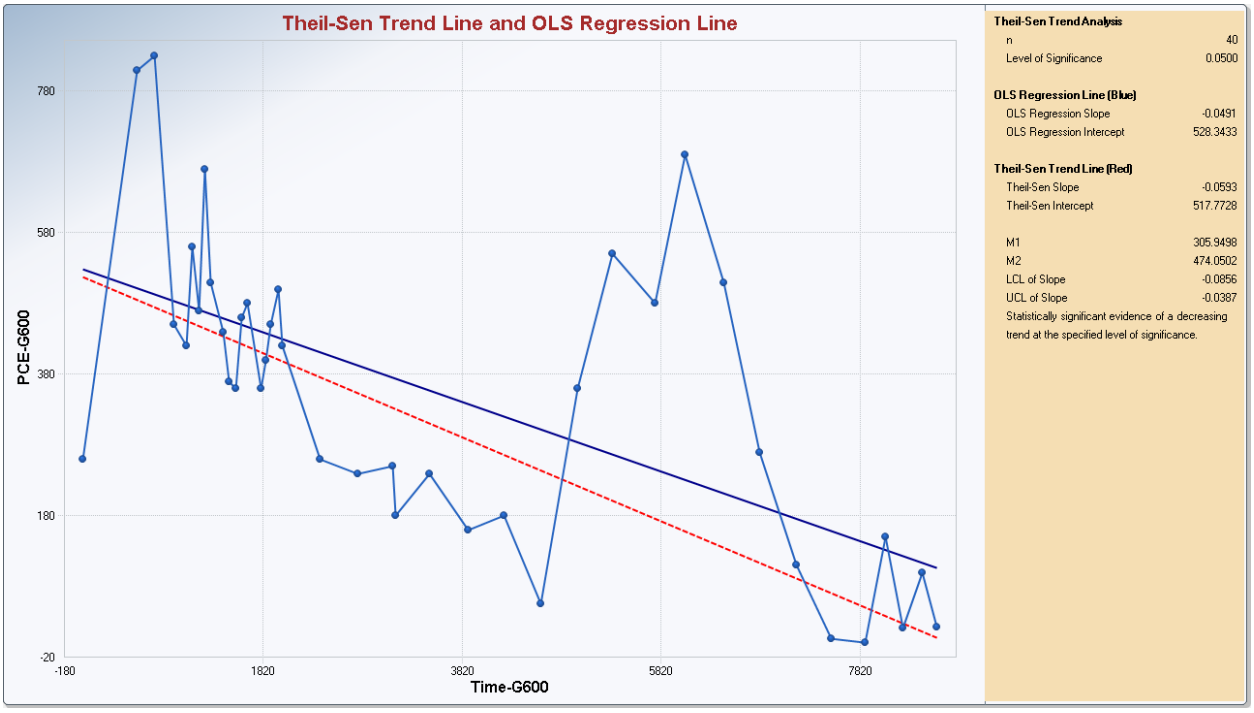
Theil-Sen Trend Line (Red)

Theil-Sen Slope	-0.0042
Theil-Sen Intercept	39.4266
M1	273.5971
M2	429.4029
LCL of Slope	-0.0055
UCL of Slope	-0.0033

Statistically significant evidence of a decreasing trend at the specified level of significance.


Theil-Sen Trend Line and OLS Regression Line
PCE-G592
Time-G592
78
68
58
48
38
28
18
8
-180
1820
3820
5820
7820
Theil-Sen Trend Analysis
n 46
Level of Significance 0.0500
OLS Regression Line (Blue)
OLS Regression Slope -0.0007
OLS Regression Intercept 37.1862
Theil-Sen Trend Line (Red)
Theil-Sen Slope -0.0004
Theil-Sen Intercept 33.3473
M1 414.0744
M2 620.9256
LCL of Slope -0.0017
UCL of Slope 0.0014
Insufficient evidence to identify a significant trend at the specified level of significance.


Theil-Sen Trend Line and OLS Regression Line
PCE-G594
Time-G594
246
196
146
96
46
-4
-180
1820
3820
5820
7820
Theil-Sen Trend Analysis
n 59
Level of Significance 0.0500
OLS Regression Line (Blue)
OLS Regression Slope -0.0027
OLS Regression Intercept 35.3489
Theil-Sen Trend Line (Red)
Theil-Sen Slope 0.0000
Theil-Sen Intercept 5.0000
M1 717.1905
M2 993.8095
LCL of Slope 0.0000
UCL of Slope 0.0000
Insufficient evidence to identify a significant trend at the specified level of significance.



Theil-Sen Trend Analysis

n	40
Level of Significance	0.0500

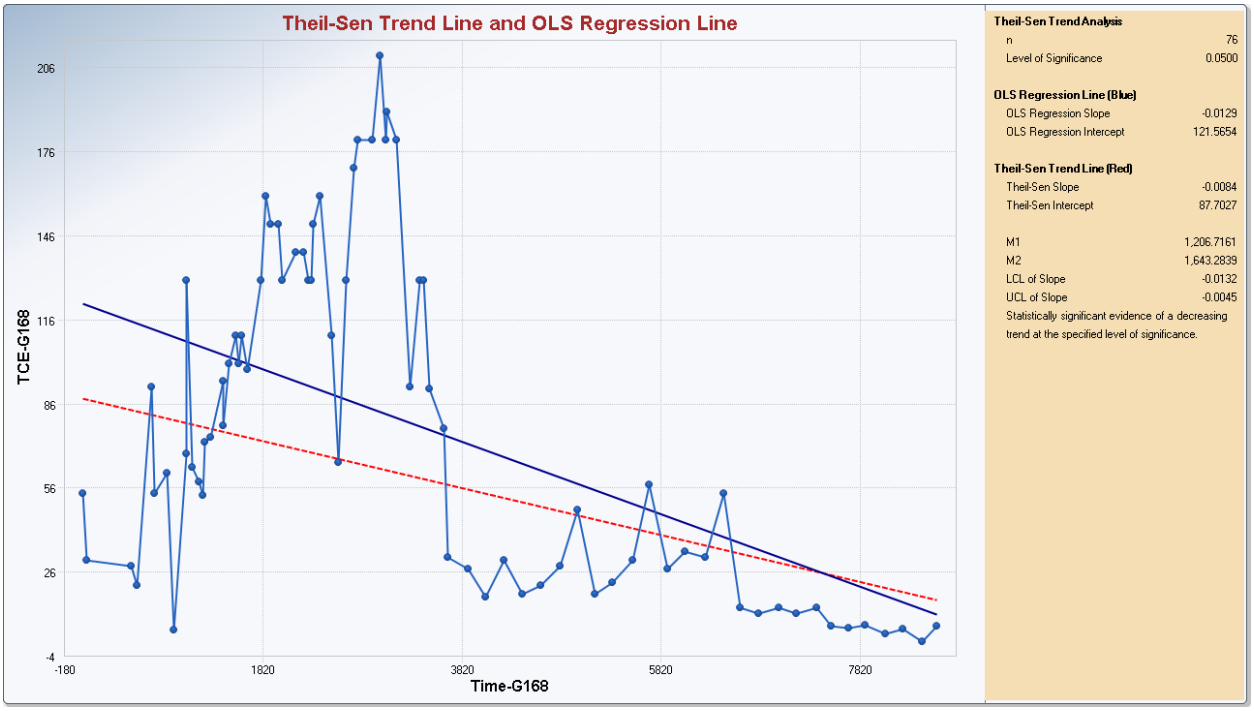
OLS Regression Line (Blue)

OLS Regression Slope	-0.0491
OLS Regression Intercept	528.3433

Theil-Sen Trend Line (Red)

Theil-Sen Slope	-0.0593
Theil-Sen Intercept	517.7728
M1	305.9498
M2	474.0502
LCL of Slope	-0.0856
UCL of Slope	-0.0387

Statistically significant evidence of a decreasing trend at the specified level of significance.



Theil-Sen Trend Analysis

n	76
Level of Significance	0.0500

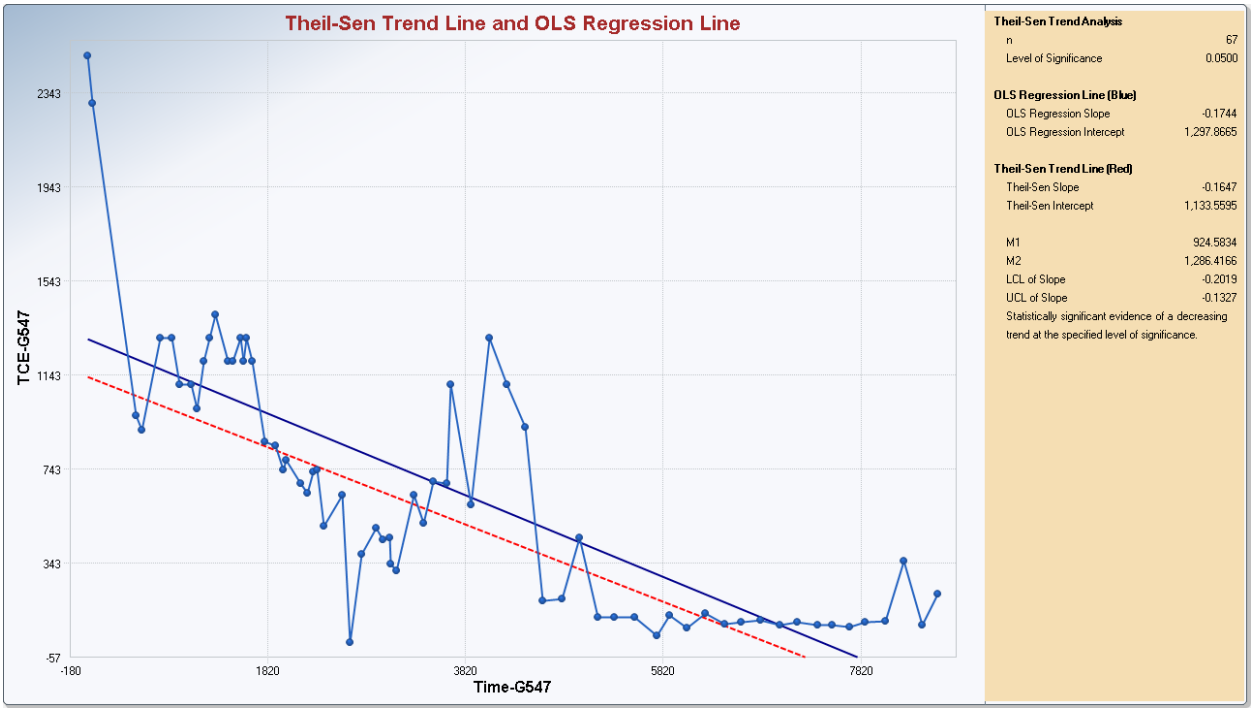
OLS Regression Line (Blue)

OLS Regression Slope	-0.0129
OLS Regression Intercept	121.5654

Theil-Sen Trend Line (Red)

Theil-Sen Slope	-0.0084
Theil-Sen Intercept	87.7027
M1	1,206.7161
M2	1,643.2839
LCL of Slope	-0.0132
UCL of Slope	-0.0045

Statistically significant evidence of a decreasing trend at the specified level of significance.



Theil-Sen Trend Analysis

n	67
Level of Significance	0.0500

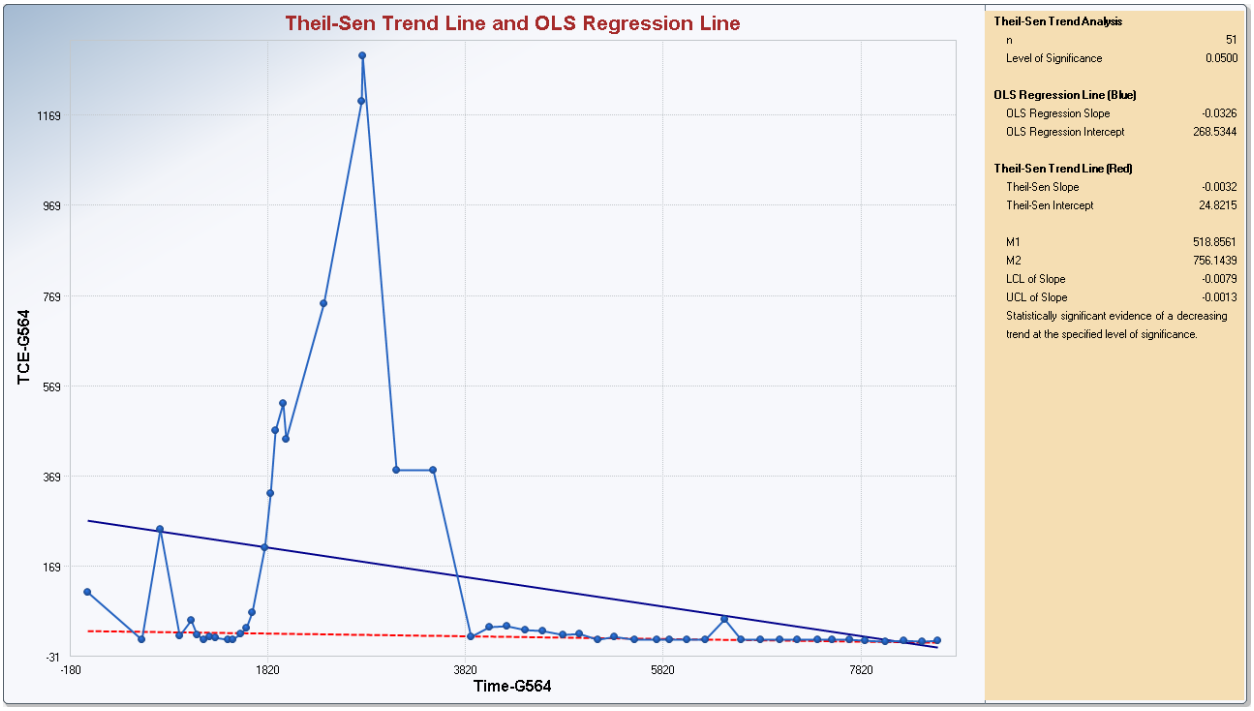
OLS Regression Line (Blue)

OLS Regression Slope	-0.1744
OLS Regression Intercept	1,297.8665

Theil-Sen Trend Line (Red)

Theil-Sen Slope	-0.1647
Theil-Sen Intercept	1,133.5595
M1	924.5834
M2	1,286.4166
LCL of Slope	-0.2019
UCL of Slope	-0.1327

Statistically significant evidence of a decreasing trend at the specified level of significance.



Theil-Sen Trend Analysis

n	51
Level of Significance	0.0500

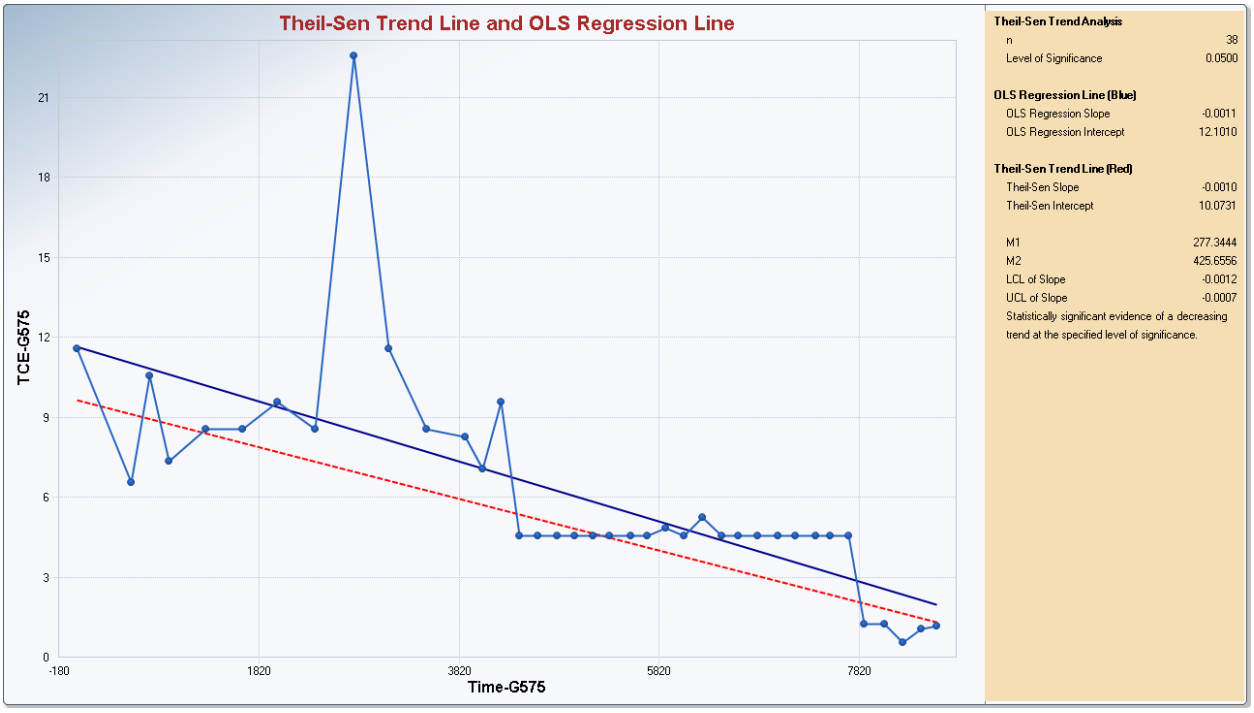
OLS Regression Line (Blue)

OLS Regression Slope	-0.0326
OLS Regression Intercept	268.5344

Theil-Sen Trend Line (Red)

Theil-Sen Slope	-0.0032
Theil-Sen Intercept	24.8215
M1	518.8561
M2	756.1439
LCL of Slope	-0.0079
UCL of Slope	-0.0013

Statistically significant evidence of a decreasing trend at the specified level of significance.



Theil-Sen Trend Analysis

n	38
Level of Significance	0.0500

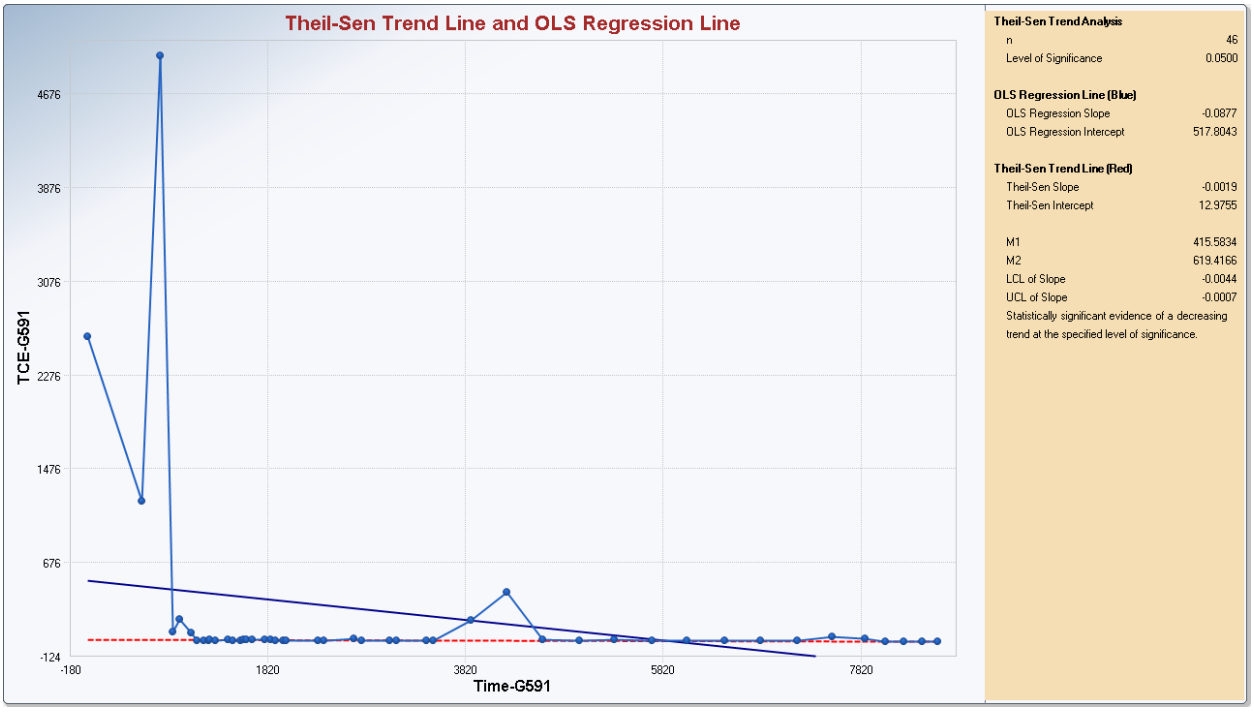
OLS Regression Line (Blue)

OLS Regression Slope	-0.0011
OLS Regression Intercept	12.1010

Theil-Sen Trend Line (Red)

Theil-Sen Slope	-0.0010
Theil-Sen Intercept	10.0731
M1	277.3444
M2	425.6556
LCL of Slope	-0.0012
UCL of Slope	-0.0007

Statistically significant evidence of a decreasing trend at the specified level of significance.



Theil-Sen Trend Analysis

n	46
Level of Significance	0.0500

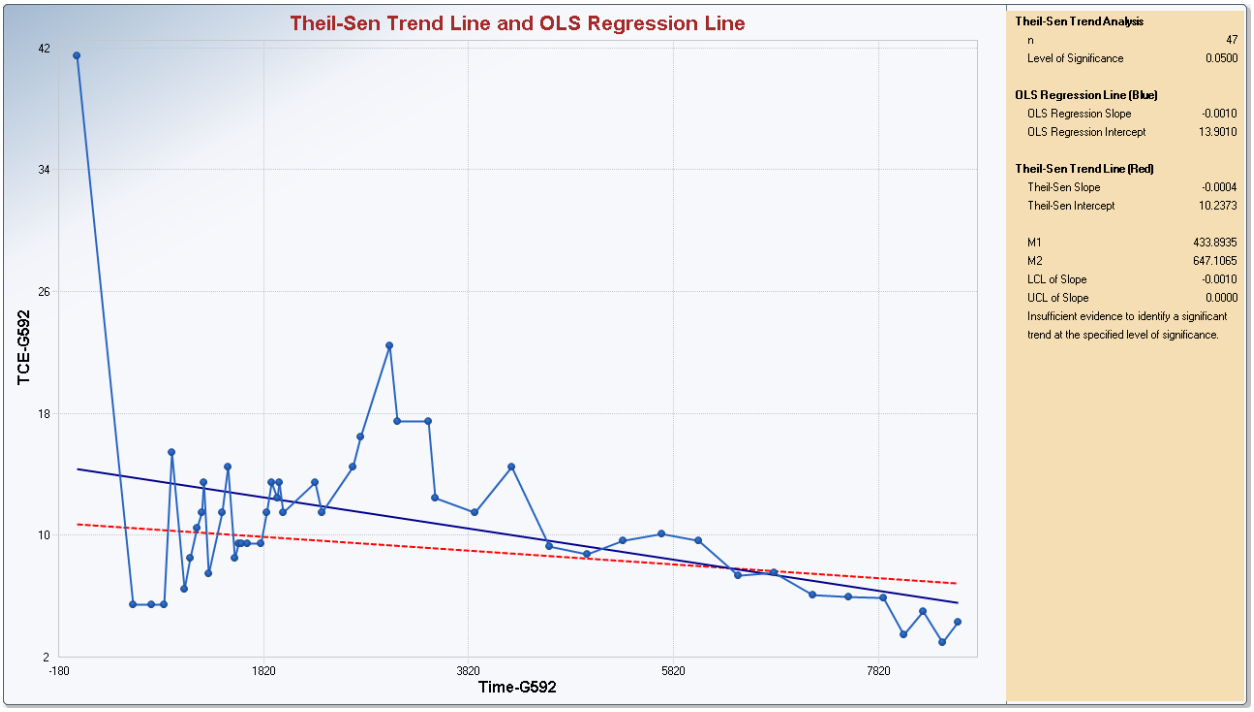
OLS Regression Line (Blue)

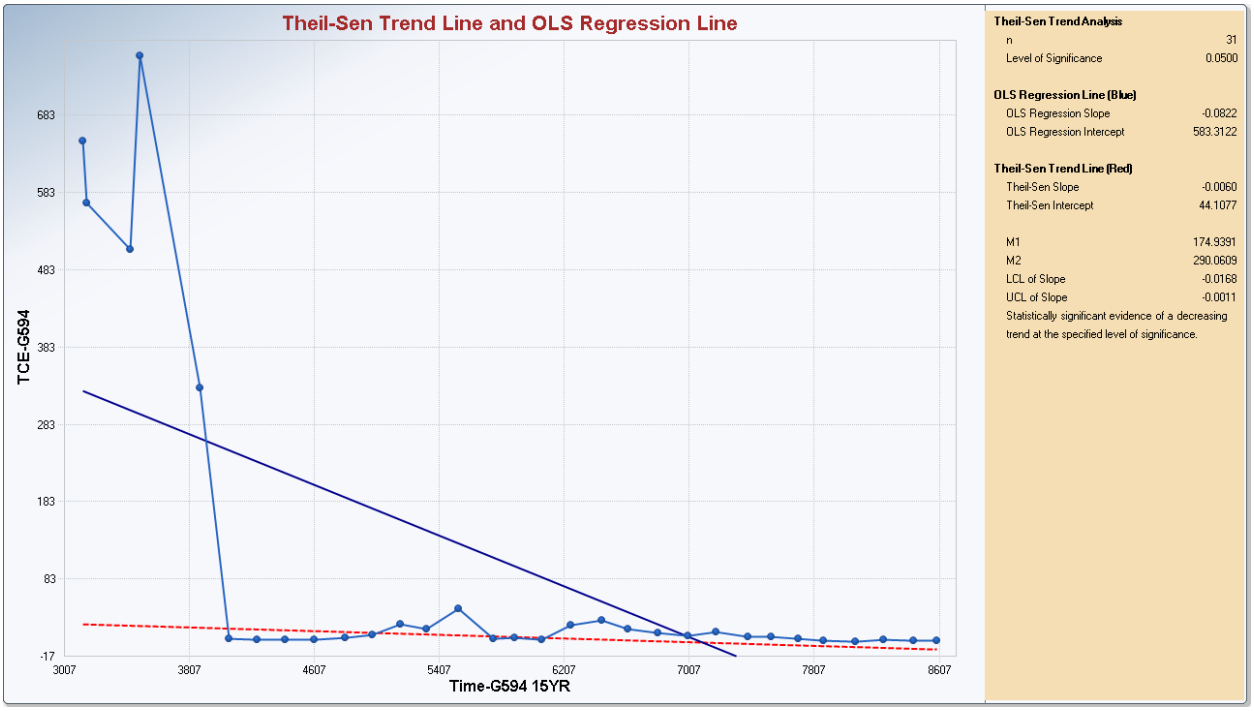
OLS Regression Slope	-0.0877
OLS Regression Intercept	517.8043

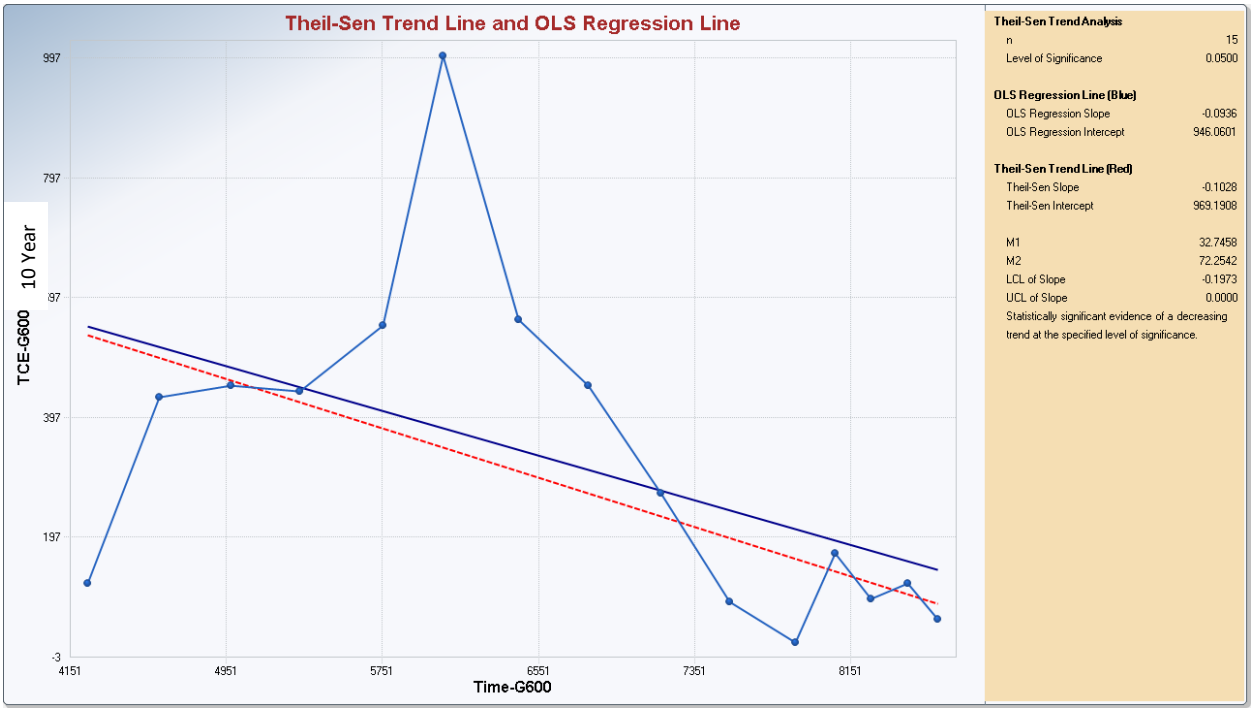
Theil-Sen Trend Line (Red)

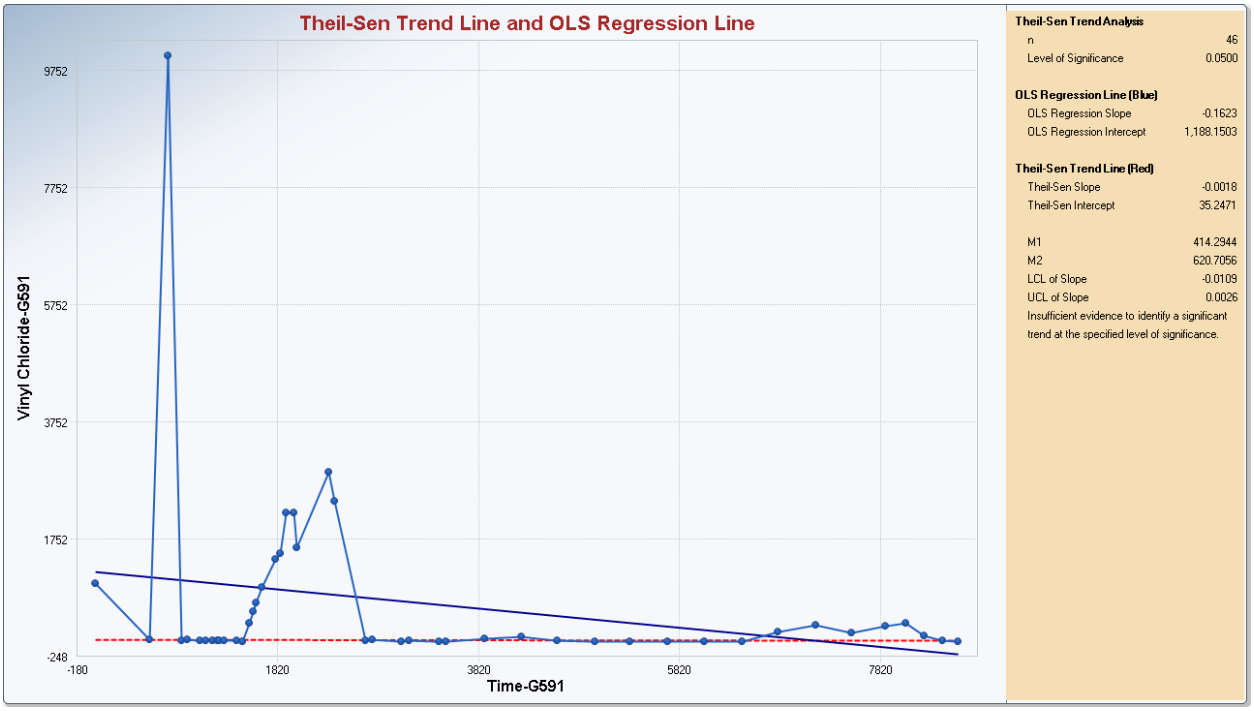
Theil-Sen Slope	-0.0019
Theil-Sen Intercept	12.9755
M1	415.5834
M2	619.4166
LCL of Slope	-0.0044
UCL of Slope	-0.0007

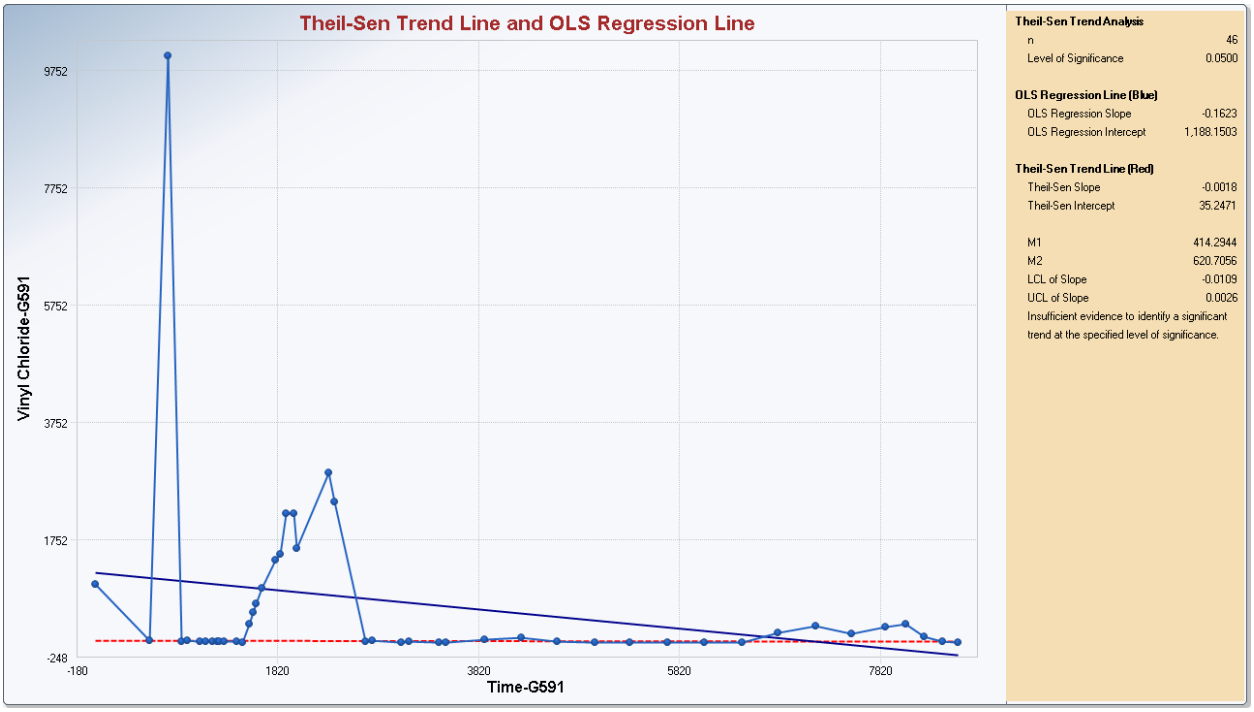
Statistically significant evidence of a decreasing trend at the specified level of significance.


Theil-Sen Trend Line and OLS Regression Line
TCE-G592
Time-G592
42
34
26
18
10
2
-180
1820
3820
5820
7820
Theil-Sen Trend Analysis
n 47
Level of Significance 0.0500
OLS Regression Line (Blue)
OLS Regression Slope -0.0010
OLS Regression Intercept 13.9010
Theil-Sen Trend Line (Red)
Theil-Sen Slope -0.0004
Theil-Sen Intercept 10.2373
M1 433.8935
M2 647.1065
LCL of Slope -0.0010
UCL of Slope 0.0000
Insufficient evidence to identify a significant trend at the specified level of significance.


Theil-Sen Trend Line and OLS Regression Line
TCE-G594
Time-G594 15YR
683
583
483
383
283
183
83
-17
3007
3807
4607
5407
6207
7007
7807
8607
Theil-Sen Trend Analysis
n 31
Level of Significance 0.0500
OLS Regression Line (Blue)
OLS Regression Slope -0.0822
OLS Regression Intercept 583.3122
Theil-Sen Trend Line (Red)
Theil-Sen Slope -0.0060
Theil-Sen Intercept 44.1077
M1 174.9391
M2 290.0609
LCL of Slope -0.0168
UCL of Slope -0.0011
Statistically significant evidence of a decreasing trend at the specified level of significance.


Theil-Sen Trend Line and OLS Regression Line
997
797
97
397
197
-3
TCE-G600 10 Year
4151
4951
5751
6551
7351
8151
Time-G600
Theil-Sen Trend Analysis
n 15
Level of Significance 0.0500
OLS Regression Line (Blue)
OLS Regression Slope -0.0936
OLS Regression Intercept 946.0601
Theil-Sen Trend Line (Red)
Theil-Sen Slope -0.1028
Theil-Sen Intercept 969.1908
M1 32.7458
M2 72.2542
LCL of Slope -0.1973
UCL of Slope 0.0000
Statistically significant evidence of a decreasing trend at the specified level of significance.


Theil-Sen Trend Line and OLS Regression Line
9752
7752
5752
3752
1752
-248
Vinyl Chloride-G591
-180
1820
3820
5820
7820
Time-G591
Theil-Sen Trend Analysis
n 46
Level of Significance 0.0500
OLS Regression Line (Blue)
OLS Regression Slope -0.1623
OLS Regression Intercept 1,188.1503
Theil-Sen Trend Line (Red)
Theil-Sen Slope -0.0018
Theil-Sen Intercept 35.2471
M1 414.2944
M2 620.7056
LCL of Slope -0.0109
UCL of Slope 0.0026
Insufficient evidence to identify a significant trend at the specified level of significance.



Theil-Sen Trend Analysis

n	46
Level of Significance	0.0500

OLS Regression Line (Blue)

OLS Regression Slope	-0.1623
OLS Regression Intercept	1,188.1503

Theil-Sen Trend Line (Red)

Theil-Sen Slope	-0.0018
Theil-Sen Intercept	35.2471
M1	414.2944
M2	620.7056
LCL of Slope	-0.0109
UCL of Slope	0.0026

Insufficient evidence to identify a significant trend at the specified level of significance.

APPENDIX C

Well Logs and Elevations

Spring 2022 Elevations

WELL #	ELEVATION TOP OF WELL	DEPTH TO BOTTOM OF WELL	ELEVATION OF WATER	WATER (ft BELOW LS)	ELEVATION BOTTOM OF WELL	DEPTH TO WATER	STICK UP
G-160	734.66	41.06	**732.00**	-0.33	693.60	2.66	2.99
G162	719.56	29.30	**716.89**	-0.32	690.26	2.67	2.99
G591	738.69	41.86	**716.63**	18.34	696.83	22.06	3.72
G592	738.06	35.66	**716.65**	18.79	702.40	21.41	2.62
G600	734.55	22.30	**714.52**	17.41	712.25	20.03	2.62
G-165	739.77	44.66	**736.50**	0.30	695.11	3.27	2.97
G-166	740.15	71.41	**729.64**	7.74	668.74	10.51	2.77
G-168	766.41	50.30	**736.20**	27.65	716.11	30.21	2.56
G547	740.41	44.21	**729.00**	8.80	696.20	11.41	2.61
G564	741.01	45.93	**720.16**	16.94	695.08	20.85	3.91
G575	747.72	46.52	**719.48**	25.59	701.20	28.24	2.65
G594	740.44	41.71	**719.59**	18.51	698.73	20.85	2.34
G211	726.55	42.60	**705.27**	18.88	686.51	21.28	2.40
G570	725.21	17.00	**721.54**	-0.23	708.21	3.67	3.90

	Elevation Top of Marker	Elevation to Water	Depth To Water
S501	702.08	700.58	1.50

Spring 2022 Elevations

WELL #	ELEVATION TOP OF WELL	DEPTH TO BOTTOM OF WELL	ELEVATION OF WATER	WATER (ft BELOW LS)	ELEVATION BOTTOM OF WELL	DEPTH TO WATER	STICK UP
G-145	778.37	55.47	**737.56**	37.25	722.90	40.81	3.56
G-186	763.15	33.94	**756.54**	3.21	729.21	6.61	3.40
G-434	783.92	60.46	**751.35**	30.65	723.46	32.57	1.92
G-105	756.44	35.38	**740.74**	12.78	721.06	15.70	2.92
G-154	741.83	60.10	**736.45**	2.27	681.73	5.38	3.11
G-157	764.11	55.90	**736.82**	23.91	708.21	27.29	3.38
G-191	764.44	94.20	**730.65**	31.14	670.24	33.79	2.65
G-193	768.19	89.00	**748.49**	17.03	679.19	19.70	2.67
RIB-9	723.47	52.29	**709.35**	11.45	671.18	14.12	2.67
G-167	767.38	63.54	**736.83**	27.37	703.84	30.55	3.18
G212	713.25	44.09	**703.34**	6.83	669.16	9.91	3.08
G572	717.39	18.00	**704.41**	10.29	699.39	12.98	2.69
G573	711.92	21.03	**704.35**	5.25	690.89	7.57	2.32
G574	709.32	19.70	**701.32**	4.88	689.62	8.00	3.12
RIB-6	717.97	98.50	**702.39**	12.08	619.47	15.58	3.50
RIB11	718.06	53.21	**704.26**	10.59	664.85	13.80	3.21
G142	761.05	29.55	**756.13**	1.92	731.50	4.92	3.00
G-192	767.08	26.70	**756.46**	7.86	740.38	10.62	2.76
G148	734.36	34.76	**734.26**	-1.44	699.60	0.10	1.54
G149	738.93	30.63	**736.31**	0.62	708.30	2.62	2.00
G155	755.17	49.07	**736.69**	15.58	706.10	18.48	2.90
G156	758.53	46.13	**736.96**	18.72	712.40	21.57	2.85

Fall 2022 Elevations

WELL #	ELEVATION TOP OF WELL	DEPTH TO BOTTOM OF WELL	ELEVATION OF WATER	WATER (ft BELOW LS)	ELEVATION BOTTOM OF WELL	DEPTH TO WATER	STICK UP
G-160	734.66	41.06	**729.07**	2.60	693.60	5.59	2.99
G162	719.56	29.30	**715.04**	1.53	690.26	4.52	2.99
G591	738.69	41.86	**714.88**	20.09	696.83	23.81	3.72
G592	738.06	35.66	**714.95**	20.49	702.40	23.11	2.62
G600	734.55	22.30	**712.76**	19.17	712.25	21.79	2.62
G-165	739.77	44.66	**731.46**	5.34	695.11	8.31	2.97
G-166	740.15	71.41	**728.99**	8.39	668.74	11.16	2.77
G-168	766.41	50.30	**734.41**	29.44	716.11	32.00	2.56
G547	740.41	44.21	**726.93**	10.87	696.20	13.48	2.61
G564	741.01	45.93	**718.48**	18.62	695.08	22.53	3.91
G575	747.72	46.52	**717.81**	27.26	701.20	29.91	2.65
G594	740.44	41.71	**717.96**	20.14	698.73	22.48	2.34
G211	726.55	42.60	**704.46**	19.69	686.51	22.09	2.40
G570	725.21	17.00	**719.40**	1.91	708.21	5.81	3.90

	Elevation Top of Marker	Elevation to Water	Depth To Water
S501	702.08	700.58	1.50

Fall 2022 Elevations

WELL #	ELEVATION TOP OF WELL	DEPTH TO BOTTOM OF WELL	ELEVATION OF WATER	WATER (ft BELOW LS)	ELEVATION BOTTOM OF WELL	DEPTH TO WATER	STICK UP
G-145	778.37	55.47	**735.22**	39.59	722.90	43.15	3.56
G-186	763.15	33.94	**753.34**	6.41	729.21	9.81	3.40
G-434	783.92	60.46	**748.43**	33.57	723.46	35.49	1.92
G-105	756.44	35.38	**737.58**	15.94	721.06	18.86	2.92
G-154	741.83	60.10	**733.70**	5.02	681.73	8.13	3.11
G-157	764.11	55.90	**734.25**	26.48	708.21	29.86	3.38
G-191	764.44	94.20	**729.66**	32.13	670.24	34.78	2.65
G-193	768.19	89.00	**745.14**	20.38	679.19	23.05	2.67
RIB-9	723.47	52.29	**707.05**	13.75	671.18	16.42	2.67
G-167	767.38	63.54	**733.23**	30.97	703.84	34.15	3.18
G212	713.25	44.09	**701.95**	8.22	669.16	11.30	3.08
G572	717.39	18.00	**702.68**	12.02	699.39	14.71	2.69
G573	711.92	21.03	**701.02**	8.58	690.89	10.90	2.32
G574	709.32	19.70	**700.67**	5.53	689.62	8.65	3.12
RIB-6	717.97	98.50	**702.58**	11.89	619.47	15.39	3.50
RIB11	718.06	53.21	**702.47**	12.38	664.85	15.59	3.21
G142	761.05	29.55	**751.16**	6.89	731.50	9.89	3.00
G-192	767.08	26.70	**750.65**	13.67	740.38	16.43	2.76
G148	734.36	34.76	**732.34**	0.48	699.60	2.02	1.54
G149	738.93	30.63	**733.78**	3.15	708.30	5.15	2.00
G155	755.17	49.07	**734.02**	18.25	706.10	21.15	2.90
G156	758.53	46.13	**734.25**	21.43	712.40	24.28	2.85

APPENDIX D

Leachate Management

APPENDIX D.1

2022 Routine Inspection and Maintenance Report

February 15, 2023

2022 Routine Inspection & Maintenance USEI

Routine Inspection and maintenance

- Facility inspections conducted include inspecting the physical integrity and condition of the boundary fence, stormwater drainage ditches, groundwater monitoring wells, leachate sumps and the sites cover and slopes. Exception reports identify any deficiencies, including sinkholes, erosion, evidence of burrowing animals, and areas needing revegetation.
- During the growing season, the facility cover is mowed on average twice per year. Monitoring wells and leachate sumps are also cleaned using a “weed trimmer.”
- Leachate collection is conducted between August and October each year. All leachate and hazardous waste solids are shipped off site for disposal.

Weather and Vegetation:

- Total Rainfall during 2022 totaled 39.80 inches.
- All vegetation on the landfill cover is in good condition.

Landfill cover and runoff:

- All landfill cover, slopes and runoff are in great condition.
- Ditches and stormwater drainage ditches are clear and properly sloped and prepared to handle runoff.

Chem Site Mowing:

- Twice in 2022

Chem Site Trimming:

- Twice in 2022

Waste managed/Media Remediated for 2022:

- From August 2022 through October 2022, 3,271 gallons leachate collected and shipped off site for disposal.
- 95 gallons of groundwater well purge water from the 2022 Spring and Fall LSTP sampling was collected and shipped off site for disposal.
- 81.81 kilograms of hazardous waste solids from 2022 leachate collection operations was collected and shipped off site for disposal.

Monitoring wells and fence lines:

- Routine facility inspections noted that the chem site boundary fence is in good condition. (See note below)
- All monitoring wells located on the chem site are in excellent shape and locked with security seals.

Repairs or preventive maintenance completed on the chem site for 2022:

- 4 depression areas on the RCRA Chem Site cap were repaired on May 17, 2022 using a total of 6 yards of topsoil, 30 pounds of grass seed and 20 pounds of fertilizer.
- Replaced 862 feet of boundary fence on the southwest side of the property from May 23, 2022 through May 26, 2022.
- Replaced 410 feet of boundary fence on the northwest side of the property from November 8, 2022 through November 10, 2022.

APPENDIX D.2

Leachate Collection Volume

Leachate Totals

US Ecology Sheffield, Illinois Facility

Year	Amount of Leachate Pumped Gallons	Total Rainfall (inches) for the Year
1982	15,371	
1983	10,643	
1984	9,842	
1985	3,747	
1986	3,192	
1987	**1,137**	**Sump pumping was stopped early because of the RIFS and groundwater well installation**
1988	**1,541**	
1989	**2,180**	
1990	**2,304**	
1991	2,600	
1992	4,835	
1993	3,245	
1994	3,800	
1995	2,390	32.14
1996	2,133	30.62
1997	1,268	31.93
1998	1,123	45.73
1999	1,793	43.47
2000	1,980	37.10
2001	2,595	36.70
2002	1,715	35.97
2003	980	35.24
2004	1,080	34.44
2005	900	19.84
2006	990	37.11
2007	1,180	36.75
2008	1,550	49.20
2009	3,920	53.25
2010	2,580	34.25
2011	1,520	42.40
2012	1,280	28.97
2013	1,050	44.64
2014	1,000	43.47
2015	1,750	38.68
2016	3,223	39.87
2017	2,615	42.33
2018	3,611	49.15
2019	3686	41.92
2020	3528	36.89
2021	3591	44.06
2022	3271	39.80
Total	122,739	

APPENDIX D.3

Leachate Disposal Manifest

✓ JB

924766 liquid

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	ILD 04-506-3450	1	309-854-1096	007910536 FLE

5. Generator's Name and Mailing Address
US Ecology Illinois, Inc.
PO Box 206, Sheffield, IL 61361
Generator's Phone: 815-454-2342

Generator's Site Address (if different than mailing address)
13279-350 E Street
Sheffield, IL 61361

6. Transporter 1 Company Name
S.E.T. Environmental, Inc.
U.S. EPA ID Number
ILD 981951236

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Veolia
Hwy 73, 3.5 miles W. of Taylor Bayou
Port Author, TX 77640
Facility's Phone: (409) 736-2821
U.S. EPA ID Number
TXD 008388960

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
R/Q	1. NA 3082 Hazardous Waste Liquid N.O.S. (Leachate) 9 PGIII (F039)	13	TP	3356	G	F039
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. 479275
Out of Service Date
9-30-2022

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Doug Long
Signature: Doug Long
Month: 10 Day: 11 Year: 2022

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Anthony Socco
Signature:
Month: 10 Day: 11 Year: 22

Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

18b. Alternate Facility (or Generator)
Manifest Reference Number
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

Solid

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ILD 04-506-3450
2. Page 1 of: 1
3. Emergency Response Phone: 309-854-1096
4. Manifest Tracking Number: 007910535 FLE

5. Generator's Name and Mailing Address
US Ecology Illinois, Inc.
PO Box 206, Sheffield, IL 61361
Generator's Phone: (815) 454-2342

Generator's Site Address (if different than mailing address)
13279-350 E Street
Sheffield, IL 61361

6. Transporter 1 Company Name: S.E.T. Environmental Inc.
U.S. EPA ID Number: ILD 981959236

7. Transporter 2 Company Name: US Ecology
U.S. EPA ID Number: MIR 593743838

8. Designated Facility Name and Site Address
US Ecology Texas
3277 County Road 69, Robstown, TX 78380
Facility's Phone: (361) 387-3518
U.S. EPA ID Number: TX 006945 2340

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
R/Q	1. NA 3077 Hazardous Waste Solid N.O.S. (PCB) 9 PGIII (F039)	1	DM	81.81	K	F039 outs 002 H
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. 090070093-0
2. OUTS 002H
Out of Service Date: 09-30-2022

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Doug Long
Signature: Doug Long
Month: 10 Day: 11 Year: 2022

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Anthony Sacco
Signature:
Month: 10 Day: 11 Year: 22
Transporter 2 Printed/Typed Name: Matt Dolan
Signature:
Month: 11 Day: 4 Year: 22

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
18b. Alternate Facility (or Generator) Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Richard Velez
Signature:
Month: 11 Day: 8 Year: 22

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR