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February 23, 2024

Ms. Renee Romero
New Mexico Environment Department
Petroleum Storage Tank Bureau
1914 West Second Street
Roswell, New Mexico 88201-1712

Re: First Quarter O&M and Groundwater Monitoring Report
Former Y Station, 721 Commerce Way, Clovis, New Mexico
Facility #53742, Release ID #4746, WPID #4339

Dear Ms. Romero:

Daniel B. Stephens & Associates, Inc. (DBS&A) is pleased to submit the enclosed report summarizing dual-phase extraction (DPE) system operation and maintenance (O&M) activities conducted at the subject site from November 1, 2023 through January 31, 2024 and groundwater monitoring activities conducted December 12 through 14, 2023. All work was completed in accordance with the requirements of Section 20.5.119 of the New Mexico Administrative Code (NMAC), DBS&A standard operating procedures (SOPs), and the approved work plan.

DBS&A plans to invoice the full approved amount for Deliverable ID #4339-2. Please do not hesitate to call us at (505) 822-9400 if you have any questions or require additional information.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read 'Thomas Golden'.

Thomas Golden, P.E.
Senior Engineer

A handwritten signature in black ink, appearing to read 'Grace Herrmann'.

Grace Herrmann, E.I.
Staff Engineer

TG/rpf
Enclosure
cc: Katherine McNeil, NMED PSTB

First Quarter DPE O&M and
Groundwater Monitoring
Former Y Station
Clovis, New Mexico
Facility #53742, Release ID #4746
WPID #4339

Prepared for

New Mexico Environment Department
Petroleum Storage Tank Bureau
Roswell, New Mexico

Prepared by



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February 23, 2024

Table of Contents

1.	Introduction.....	1
1.1	Site History.....	1
1.2	Remediation System.....	3
1.3	Scope of Work.....	4
1.4	Quarter Highlights.....	4
2.	Remediation System Operation and Maintenance.....	5
2.1	System Operation Data.....	5
2.2	Wellhead Operation Data.....	6
2.3	Laboratory Sampling.....	7
2.4	Contaminant Removal Performance.....	9
2.5	DPE System Maintenance.....	9
3.	Groundwater Monitoring.....	10
3.1	Groundwater Monitoring.....	10
3.2	LNAPL Recovery.....	11
3.3	Containment of Release.....	12
3.4	Trends or Changes in Site Conditions.....	12
4.	Conclusions and Recommendations.....	15
	Statement of Familiarity.....	16
	References.....	16

List of Figures

- 1 Area Map
- 2 Site Map
- 3 Remediation System Layout
- 4 Field Screening PID Readings, Source Area Wells, Shallow Zone
- 5 Field Screening PID Readings, Source Area Wells, Intermediate Zone
- 6 Field Screening PID Readings, Source Area Wells, Deep Zone
- 7 Field Screening PID Readings, Off-Site Wells
- 8 Cumulative Mass Removal
- 9 Potentiometric Surface Elevations, December 14, 2023
- 10 Distribution of Dissolved-Phase Contaminants, December 12-14, 2023
- 11 Benzene Isoconcentration Map, December 12-14, 2023
- 12 EDB Isoconcentration Map, December 12-14, 2023
- 13 EDC Isoconcentration Map, December 12-14, 2023

List of Tables

- 1 SVE System Manifold and Oxidizer Operation Data
- 2 SVE System Wellhead Operation Data
- 3 Water Flow Meter Readings for Individual Wells and Treated Discharge
- 4 Analytical Organic Chemistry Data for the Remediation System, Air
- 5 Analytical Organic Chemistry Data for the Remediation System, Water
- 6 Analytical Inorganic Chemistry Data for the Remediation System
- 7 Utility Usage Summary
- 8 Fluid Level Measurements
- 9 Groundwater Analytical Organic Chemistry Data
- 10 LNAPL Recovery from Site Wells

List of Appendices

- A Well Boring Logs
- B Survey Report
- C Field Notes
- D Laboratory Reports
- E Mass Removal Calculations
- F Sampling Protocol
- G Graphs
- H Baseline Plume Maps

1. Introduction

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this quarterly monitoring report for the Former Y Station State Lead site in Clovis, New Mexico (the site). The report documents the first quarter of operation and maintenance (O&M) for the dual-phase extraction (DPE) system from November 1, 2023 through January 31, 2024, as well as groundwater monitoring activities conducted at the site December 12 through 14, 2023. This report was prepared in accordance with the requirements of Part 119 of the New Mexico Petroleum Storage Tank Regulations (PSTR) and DBS&A standard operating procedures (SOPs). The work plan for remediation system startup and operation was submitted to the NMED PSTB on September 20, 2023 (DBS&A, 2023), and was approved under WPID #4339 on September 28, 2023 (NMED, 2023).

1.1 Site History

The site is located at 721 Commerce Way in Clovis, New Mexico (Figure 1), and is currently occupied by an optical retail center; the site includes the intersection of Prince Street and Commerce Way. It is surrounded by a variety of other commercial land uses, such as big box retail stores, fast food restaurants, and gasoline service stations. Residential neighborhoods are adjacent to the west and east of the Prince Street commercial corridor.

Initial site investigation activities conducted by the previous consultant in 2011 were driven by the discovery of a release during a tank pull at the Allsup's No. 320 (Allsup's) site, located at the corner of Prince and 21st Streets (Figure 2). Subsequent investigations from 2012 to 2016 revealed a large dissolved-phase hydrocarbon plume south of the Allsup's site, centered near the intersection of Prince Street and Commerce Way.

Interviews with local residents and inspection of public records by the previous consultant revealed that a fueling station was formerly present on the southwest corner of Prince Street and Commerce Street, locally referred to as "the Y." The Former Y Station was reportedly active from the late 1950s through approximately 1981. The intersection has been reconfigured since that time, and what was the site is now active traffic lanes and the Optical Source retail outlet.

The previous consultant oversaw installation of 10 groundwater monitor wells (BW-1 through BW-10) in the vicinity of the Former Y Station, including 3 wells on the Allsup's property (Figure 2), and conducted limited soil vapor extraction (SVE) feasibility testing at the Allsup's site. Benzene was the constituent detected at the highest concentrations in groundwater and with

the greatest areal extent. Concentrations of other contaminants of concern (COCs) above applicable regulatory standards were typically localized near the center of the benzene plume.

Under the previous State Lead remediation services contract executed on May 15, 2018, DBS&A initiated two additional site investigation programs, which included installation of 12 monitor wells and/or remediation wells at the site (RW-1 through RW-4, BW-7R, and MW-11 through MW-17) (Figure 2). The primary goals of these investigations were to (1) characterize soil and groundwater conditions directly under the site of the Former Y station and (2) attempt to delineate the downgradient extent of the dissolved-phase contaminant plume. Additional investigation activities also included step and constant-rate aquifer pumping tests at newly installed monitor well MW-11, analysis of the physical properties of aquifer materials, and groundwater modeling to assess the feasibility of the proposed remediation approach.

Based on findings from the additional investigations, DBS&A proceeded with design and implementation of a DPE system. The proposed remediation system prioritizes removal of source area mass near the point of release using multi-zone DPE remediation wells to remove light nonaqueous-phase liquid (LNAPL) and residual hydrocarbons in the vadose zone, and is coupled with a pump-and-treat approach to speed remediation of the dissolved-phase contaminant plume in groundwater (Figure 3). The remedial design was presented in the final remediation plan (FRP) dated July 16, 2021 (DBS&A, 2021). Remediation system construction occurred from December 2021 through April 2022, and was documented in an as-built report dated May 2, 2022. Due to the end date of the previous contract, remediation system startup did not occur.

During the week of May 31, 2022, monitor wells BW-1 through BW-3 were plugged and abandoned by another consultant. Results from at least eight consecutive monitoring events showed contaminant concentrations below groundwater quality standards. A no further action (NFA) letter was issued for the Allsup's No. 320 site on August 8, 2022. There are currently 19 active monitor and remediation wells associated with the Former Y Station State Lead site (Figure 2).

DBS&A responded to a request for proposals (RFP) for a State Lead remediation services contract to operate the remediation system for this site, with proposals submitted to the PSTB on April 11, 2022, April 3, 2023, and May 26, 2023. DBS&A was selected as the most responsive bidder and entered into a contract with NMED that was executed on July 1, 2023. DBS&A coordinated shakedown and startup of the remediation system in October and November 2023,

and submitted a revised as-built report dated January 8, 2024 that incorporated data from the first month of system operation (DBS&A, 2024).

The work described in this report follows the tasks outlined in the approved work plan, approved requests for contingency set-aside funding, and discussions with the PSTB project manager.

1.2 Remediation System

The remediation system designed for the site is a DPE system, including SVE and whole-fluids extraction. A total of 10 wells are connected to the remediation system using buried conveyance piping. Boring logs for the remediation wells are provided in Appendix A. The survey report is provided in Appendix B.

A total of 5 multi-zone nested wells (BW-8 and RW-1 through RW-4) are clustered around the former source area. Five additional single-zone remediation wells (BW-7R, MW-11, MW-12, MW-13, and MW-16) are installed to address downgradient contamination. Monitor well MW-13 was intended to be a contingency well, but has been operating with the remediation system since startup. Remediation wells are connected to one of three primary SVE conveyance (trunk) lines that are routed to a common manifold using Schedule (SCH) 40 polyvinyl chloride (PVC) piping. The primary trunk lines from source area wells (SVE line 1) and downgradient wells (SVE line 2) are 8-inch- and 4-inch-diameter, respectively. A 2-inch-diameter pipe conveys flow from MW-13 (SVE line 3). The manifold is an 8-inch SCH 40 PVC header, with SCH 40 PVC risers and fittings sized to match the three primary trunk lines. The risers include an analog vacuum gauge, sample port, and a plug for an insertion-type air flow meter. A single trunk line was constructed of 1.5-inch-diameter SCH 40 PVC for the conveyance of combined groundwater from the extraction wells, and is co-located with the SVE conveyance lines. Each extraction well feeds directly into this single conveyance line.

Major remediation equipment was manufactured by Intellishare Environmental (Intellishare) of Menomonie, Wisconsin and H2K Technologies (H2K) of Corcoran, Minnesota. Remediation equipment currently installed includes an Intellishare skid-mounted natural gas fired thermal oxidizer with catalyst module, discharge stack, LNAPL tank, an SVE treatment system package (blower, knockout tank, and controls), and a groundwater treatment system package (oil-water separator, diffused tank aerator [DTA], and clarifier). The two equipment packages are assembled in modified shipping containers. Remediation equipment is located within a fenced compound in the parking lot of the Albertson's grocery store (Figure 3).

Source area wells RW-1 through RW-4 have a Grundfos model 5SQ05-320 $\frac{3}{4}$ -horsepower (hp) pump, and the downgradient groundwater extraction wells have a Grundfos model SP 5S10-22 1-hp pump. Each wellhead includes a totalizing flow meter, hose bibb (for collection of groundwater samples), analog pressure gauge, and an air release valve (ARV). Each well also includes a pressure transducer for remote monitoring of fluid levels and control of the pumps.

Utility services required to operate the remediation equipment include electric, which is provided by Xcel Energy (Xcel), and natural gas, which is provided by New Mexico Gas Company (NM Gas). The system also includes a cellular-based telemetry system that operates on the Verizon network. Daily system updates on system operation are provided through e-mail, in addition to alarm conditions and the ability to remote-start the equipment.

1.3 Scope of Work

The scope of work included under WPID #4339 includes 12 months of O&M for the remediation system, quarterly groundwater monitoring, and associated reporting. To ensure that the project objectives were achieved, an authorized representative of DBS&A maintained direct supervisory control of all aspects of the project.

1.4 Quarter Highlights

The principal accomplishments of this reporting period include the following:

- November 1, 2, 3, 8, 16, 21, and 27, and December 12, 2023 and January 3, 16, and 31, 2024: Recorded DPE system operations data; sampled vapor and process water for laboratory analysis.
- December 12 through 14, 2023: Performed quarterly groundwater monitoring. Gauged fluid levels in 19 site monitor wells and collected groundwater samples from 16 site monitor wells for laboratory analysis.
- February 2024: Prepared the quarterly O&M and monitoring report.

The equipment operated with minimal interruption during the O&M period from November 1, 2023 through January 31, 2024.

2. Remediation System Operation and Maintenance

Including the startup period, remediation system O&M included 11 visits for the reporting period, with system operation data and laboratory sample collection performed during each event. Evaluation of the remediation system was performed continuously by using daily updates and alarm notifications from the telemetry system. Vapor monitoring, including field screening and sampling for laboratory analysis, was performed during each regular site visit. Operation data for both the remediation system and individual wellheads are provided in Tables 1 and 2. Field notes and forms are provided in Appendix C.

2.1 System Operation Data

Field screening data included air flow, vacuum, and vapor concentrations, as well as installed instrumentation. Vacuum in the SVE lines was measured at each of the wellheads and the manifold using a Dwyer Series 574 Mark III digital manometer. Vapor samples were collected in Tedlar bags using a Xitech High Vacuum Air Sampler at the wellheads and manifold. The vapor samples were field screened with a Honeywell MiniRAE 3000 photoionization detector (PID) for concentrations of contaminants. Air flow and velocity were measured at each wellhead and at the manifold with a TSI VelociCalc Series 9535. Data were also collected from the control panels of the installed remediation equipment.

As recorded from the SVE system control panel, total system air flow has ranged from 750 to 781 standard cubic feet per minute (scfm). Air flow measured using the VelociCalc has been higher, but may be affected by the piping configuration or minor amounts of moisture in the process air. Mass removal calculations use the lower air flow measured by the system, which produces conservative (lower) estimates of mass removal. All wells operated with the SVE component of the remediation system during the current period, including contingency well MW-13. Vacuum at the SVE blower has ranged from approximately 47 to 55 inches water column (inches H₂O) (Table 1). The SVE blower is currently operating at approximately 45 hertz (Hz), leaving an additional 25 percent capacity if needed. The Intellishare representative tested the blower at higher speeds during startup, but did not observe a noticeable increase in mass removal.

The combined influent PID reading initially exceeded the capacity of the PID (greater than 15,000 parts per million by volume [ppmv]). Since November 2, 2023, PID readings have ranged from approximately 700 to 1,700 ppmv. PID readings do not always correlate with laboratory concentrations, but these values are a positive indicator of high mass removal. PID readings

from the oxidizer discharge were also been relatively high initially, but values have been trending lower with ongoing operation of the remediation system, and have been consistently below 100 ppmv since November 27, 2023 (Table 1).

2.2 Wellhead Operation Data

Air flow for individual zones of the source area wells (RW-1 through RW-4 and BW-8) has ranged from approximately 30 to 65 scfm. Air flow for downgradient wells BW-7R, MW-11, MW-12, and MW-13 has ranged from approximately 60 to 65 scfm, whereas MW-16 air flow has been approximately 100 scfm. Values have been in line with expected air flow based on limited pilot testing performed by the previous consultant. Observed variability was expected based on slight variations in lithology. Applied well vacuum has been on the order of 30 to 40 inches H₂O. Individual well vacuum measurements have been consistent over the first three months of system operation.

PID results from field screening are presented on Figures 4 through 7 and in Table 2. The highest PID readings have been in the deep zone of the source area wells (RW-1 through RW-4 and BW-8). Values have generally been between 1,000 and 3,000 ppmv, and have remained relatively steady through the first three months of operation. PID readings have also remained relatively steady for the intermediate and shallow zones of RW-2, while decreasing in similar zones for other nested wells. As expected, PID readings have been lowest in the off-site wells (BW-7R, MW-11, MW-12, MW-13, and MW-16), with values in 4 out of 5 wells consistently below 100 ppmv and values in all 5 wells generally below 200 ppmv. The highest PID readings in the off-site wells have been in BW-7R and MW-12, which are closer to the source area than the other 3 wells. Based on consistent low PID readings, DBS&A chose to turn off SVE for wells MW-11, MW-13, and MW-16 following collection of O&M data on January 31, 2024. DBS&A will continue to monitor trends in individual zones and wells to optimize mass removal from the SVE component of the remediation system, and will be pulsing low-performing wells to maximize removal of contaminants.

Water flow meter readings for individual wells and the treated water discharge are presented in Table 3, together with readings from the pressure transducer installed in each well. For the first 3 months of operation, water production was greatest in wells RW-3 (3.6 gallons per minute [gpm]), RW-4 (2.3 gpm), and MW-11 (2.0 gpm). Water production was lowest in wells RW-2 (0.3 gpm) and BW-7R (0.5 gpm). Both wells are affected by fine-grained soil below the water table. After consulting with project vendors and equipment manufacturers, DBS&A also believes that water production in RW-2 was initially affected by the presence of nonaqueous-phase

liquid (NAPL). Water production for RW-2 has increased slowly with continued operation, and was approximately 0.6 gpm for the month of January. Average water production for the other 4 wells ranged from 1.1 to 1.6 gpm.

DBS&A is evaluating operating water levels and extraction volumes in an effort to optimize mass removal from the groundwater system, monitor well performance, and minimize submerging contamination below the current static water level. DBS&A noticed toward the end of the quarter that groundwater extraction was decreasing for many of the site remediation wells (e.g., water production from MW-16 was negligible in January 2024). After pulling the flow meter for MW-16, a significant amount of iron bacteria sludge was observed to have clogged the flow meter. DBS&A intends to implement a rigorous disinfection program during second quarter O&M to remediate groundwater treatment system components affected by this sludge.

As of January 31, 2024, the remediation system had treated more than 1 million gallons of petroleum-contaminated water. This is the totalized flow volume recorded by the treated water discharge flow meter. This reading has been consistently about 60 to 70 percent of the sum total flow from all of the individual groundwater extraction wells (i.e., 30 to 40 percent lower). DBS&A is actively investigating this discrepancy. Separate flow meters were installed in the valve vaults for wells RW-3 and RW-4 to attempt to correlate the existing wellhead meter, and DBS&A intends to calibrate the discharge flow meter during second quarter O&M. DBS&A has not observed any evidence indicating there is a pipeline leak between the wells and the remediation system compound. The flow meter manufacturer thinks that the piping configuration may be affecting flow measurement (i.e., there may not be enough straight pipe before the flow meters at the wellheads). Additional information will be provided in subsequent monitoring reports. Despite the discrepancy, the major remediation equipment is treating at least 8 gpm from the 9 extraction wells, and is discharging treated water to the sanitary sewer. In accordance with existing discharge permits/agreements, DBS&A reports water flow meter readings to both the City of Clovis (City) and the New Mexico Office of the State Engineer (OSE).

2.3 Laboratory Sampling

Laboratory samples were submitted to Hall Environmental Analysis Laboratory (HEAL, dba Eurofins) in Albuquerque, New Mexico for volatile organic compound (VOC) and inorganic analyses in accordance with the approved work plan. Groundwater samples were collected at the combined influent point prior to oil-water separation and at the discharge point after clarification. Groundwater samples for individual wells were collected during the quarterly groundwater monitoring event, as discussed in Section 3. Air samples were collected at the SVE

combined influent (manifold), at the oxidizer effluent (discharge stack), and from the DTA effluent. Air samples from individual wells are collected at the wellhead for field screening purposes only. Laboratory results, including chain of custody documentation, are provided in Appendix D.

The analytical results for SVE combined influent laboratory samples collected during startup showed total petroleum hydrocarbon gasoline-range organic (TPH GRO) concentrations of 36,000 and 34,000 micrograms per liter ($\mu\text{g/L}$) on November 1 and 3, 2023, respectively. TPH GRO concentrations in influent air samples ranged from 6,500 to 7,800 $\mu\text{g/L}$ in December 2023 and January 2024. Oxidizer effluent TPH GRO concentrations on November 1 and 3, 2023 were 6,500 and 4,400 $\mu\text{g/L}$, respectively (Table 4), correlating to a destruction efficiency of 81.9 and 87.1 percent, respectively. However, since December 2023, thermal oxidizer destruction efficiency has averaged more than 99 percent.

During this period of operation, combined influent (raw) water samples contained TPH GRO and benzene, toluene, ethylbenzene, and total xylenes (BTEX) at concentrations of 6.6 and 2.4 milligrams per liter (mg/L), respectively. Concentrations were the highest during the middle of the quarter, with an average TPH GRO concentration of 8.5 mg/L . Concentrations were generally an order of magnitude lower during the last sampling event on January 31, 2024. Benzene, 1,2-dibromoethane (EDB), and 1,2-dichloroethane (EDC) concentrations have been consistently above New Mexico Water Quality Control Commission (NMWQCC) standards.

Concentrations of benzene, EDB, and EDC in treated water samples have also exceeded the NMWQCC standards. However, treated water is routed to the City wastewater treatment plant for additional treatment. During this period of operation, the average benzene concentration in treated water samples was 29 $\mu\text{g/L}$, and average EDB and EDC concentrations were 3.5 and 15.6 $\mu\text{g/L}$, respectively (Table 5). Average benzene, EDB, and EDC treatment efficiencies have been 97.5, 79.2, and 87.5 percent, respectively, which are typical for the various constituents based on the installed treatment equipment. Treatment efficiencies have been slowly trending higher over time.

Raw and treated water samples were also analyzed for a limited number of inorganic constituents. Average chloride, nitrate (as nitrogen), and sulfate concentrations for samples collected this quarter were 83, 1.9, and 45 mg/L , respectively, which are below the NMWQCC standards. Average total dissolved solids (TDS) concentration was approximately 505 mg/L (Table 6). The TDS concentration in the treated water sample has generally been similar to that of the influent (raw) water sample.

2.4 Contaminant Removal Performance

Calculations based on two methods (laboratory and PID analysis) were performed to estimate hydrocarbon mass removal (Appendix E). The laboratory analysis method indicated that hydrocarbon mass removal rates during this period of operation averaged approximately 33 pounds per hour (lb/hr). Results obtained from the PID analysis were lower (12 lb/hr). However, concentration estimates measured in the field using a portable PID are considered to be for screening purposes only, and do not typically correlate with mass concentrations measured with laboratory data. According to calculations using the laboratory results, and considering removal from both air and water processes, a total mass of more than 70,000 pounds (11,700 gallons) of hydrocarbons was removed from the site using the installed remediation equipment (Figure 8).

Calculations for estimated emission rates from the remediation system are also provided in Appendix E. Since startup, average emission rates for benzene and TPH GRO are 0.098 and 1.76 lb/hr, respectively, which are below applicable air permitting standards. Although emission rates started high, they are trending lower with continued operation of the remediation equipment. Based on discussions with Intellishare, DBS&A suspects that oxygen deficiency in the subsurface reduced initial thermal oxidizer efficiency, resulting in incomplete combustion of hydrocarbons. Operation of the remediation system is likely increasing oxygen content, as well as lowering influent contaminant concentrations over time.

During this quarter, electricity was consumed at an average rate of 705 kilowatt-hours (kWh) per day, at an average daily cost of \$47.96. Natural gas was consumed at a rate of 387 therm per day, at an average daily cost of \$282.41 (Table 7).

2.5 DPE System Maintenance

DPE and oxidizer maintenance were completed following the manufacturers' suggested schedules. Monthly maintenance items included clearing condensate from instrumentation tubing, exercising the process air and dilution valves, treating foam accumulation in the clarifier with liquid household bleach, and inspecting the dilution air and process blower air filter to check for clogging. The product tank level was checked biweekly.

Oil in the SVE blower was changed on November 21, 2023. The oil level was checked and more oil was added on December 21, 2023. Another oil change was completed on January 16, 2023. DBS&A is scheduled for monthly SVE blower oil changes going forward. The motor bearings are greased at each O&M event per the manufacturer's instructions. Based on visual inspection and

the relatively short operation time, cleaning of the groundwater treatment vessels was not required during this groundwater monitoring event. A cleaning event will be performed during the second quarter groundwater monitoring event.

A few times during this quarter, the level in the DTA would get too high and cause the well pumps to turn off so as not to overflow the tanks. After troubleshooting, DBS&A determined that the moisture separator was emptying too quickly and causing the groundwater treatment system to be overwhelmed. To resolve this issue, the discharge line for the moisture separator was throttled down to a lower water flow rate. There have been no further issues with the moisture separator pump-down causing well pumps to turn off.

As the aquifer has become oxygenated, bacterial growth has increased in the groundwater conveyance lines, fittings, and flow meters, causing reduced flow rates at some of the wells. Future regular maintenance will include clearing bacterial growth from these appurtenances and water conveyance lines, as well as treating bacterial growth in the clarifier as needed. DBS&A is performing a disinfection test using sodium hypochlorite during the second quarter. Details and results of this test will be included in the next quarterly report.

3. Groundwater Monitoring

The scope of work for the December 2023 groundwater monitoring event included gauging water levels and collecting groundwater samples in 16 site monitor and remediation wells for laboratory analysis. Wells BW-6, BW-9, and BW-10 were excluded from the sampling plan during the current monitoring event in accordance with the approved work plan, but will be sampled during the fourth quarter event. Groundwater samples collected from the site monitor wells and remediation wells were analyzed for VOCs, including BTEX, methyl tertiary-butyl ether (MTBE), and total naphthalenes using EPA method 8260B (full list) and for EDB and EDC, using EPA method 504.1.

3.1 Groundwater Monitoring

On December 13 and 14, 2023, depth to water was measured with an electronic interface probe in monitor wells that do not contain a submersible pump. Water levels were measured during remediation system operation and again approximately 24 hours after the remediation system was turned off to obtain static water level measurements. Due to the extended depth to groundwater, DBS&A cannot safely run an electronic interface probe to the water table in wells

with pumps, so transducer data are recorded for the 9 remediation wells with pumps. Transducer data are then used to calculate both depth to water and the groundwater elevation. Table 8 summarizes water level measurements and groundwater elevations from this and previous monitoring events. Water level data were used to prepare a potentiometric surface map for the area under static conditions on December 14, 2023 (Figure 9). Groundwater elevations for monitor wells BW-6, BW-9, and BW-10 were not used for contouring of the potentiometric surface, as they were only gauged on December 13, 2023. Static water levels for these 3 wells were assumed to be approximately 0.3 foot higher during preparation of Figure 9.

During the December 2023 sampling event, groundwater samples for laboratory analysis were collected from 16 monitor wells and remediation wells. Samples from remediation wells equipped with pumps are sampled using the sample tap at the wellhead while the remediation pump is running. During the current monitoring event, these wells were sampled prior to shutting down the system, so results will be indicative of pumping conditions. All other wells are sampled using dedicated, disposable HydraSleeves, and they were sampled with the remediation system off. The sampling protocol is outlined in Appendix F. Dissolved oxygen (DO), oxidation/reduction potential (ORP), pH, specific conductivity, and temperature were measured in the field during purging using a YSI 556 Multiprobe System (MPS) meter, with the values recorded in the field notes (Appendix C).

Groundwater samples were analyzed for the constituents specified in the scope of work. All laboratory analyses were performed by HEAL. Groundwater analytical organic chemistry data from this and previous monitoring events are summarized in Table 9. The laboratory reports, including chain of custody documentation, are provided in Appendix D. Figure 10 shows the distribution of dissolved-phase hydrocarbon concentrations in groundwater for the current monitoring event.

3.2 LNAPL Recovery

LNAPL was not detected in any monitor wells during this sampling event. Due to operation of the submersible pumps (emulsifying LNAPL near the water table), LNAPL was not expected to be present in any of the remediation wells. The absence of LNAPL from monitor well BW-5 is a positive indicator of remediation system operation. Historical LNAPL recovery is provided in Table 10.

3.3 Containment of Release

COCs were detected at concentrations above NMWQCC standards in the following monitor wells during the December 2023 sampling event:

- *Benzene*: BW-7R, BW-8, MW-11, MW-12, MW-13, MW-15, MW-16, and RW-2 through RW-4
- *EDB*: BW-5, BW-7, BW-7R, BW-8, MW-11, MW-12, MW-13, MW-16, and RW-1 through RW-4
- *EDC*: BW-7, BW-7R, BW-8, MW-11, MW-12, MW-13, MW-16, and RW-1 through RW-4
- *Total naphthalenes*: MW-11, and RW-4

Benzene, EDB, and EDC are the COCs that are detected across the widest areal extent. Plume maps for individual contaminants based on data from the current monitoring event are provided as Figures 11 through 13. Data reported during this monitoring event showed effects of active remediation activities on subsurface contaminant concentrations. Wells on the perimeter of the contaminant plumes had lower concentrations (e.g., RW-1, RW-2, BW-5, and BW-7), likely impacted by mobilization of cleaner water outside the plume extent, while the highest contaminant concentrations were in wells located closer to the interior of the plume (e.g., RW-4, BW-7R, MW-11, and MW-16).

3.4 Trends or Changes in Site Conditions

Graphs showing historical trends in monitor well contaminant concentrations are provided in Appendix G. Groundwater is encountered beneath the site at depths ranging from approximately 319 to 330 feet below ground surface (bgs), and generally flows to the south-southeast with an approximate gradient of 0.003 foot per foot. The overall flow direction and gradient are similar to those noted during previous monitoring events. Since 2014, groundwater elevations have declined by approximately 6.0 feet, resulting in an average annual decrease of approximately 0.6 foot per year. As operation of the remediation system continues, DBS&A will evaluate the impacts of drawdown on the water table in future quarterly reports.

Historical groundwater analytical organic chemistry data for site wells are summarized in Table 9. Baseline plume maps are provided in Appendix H. Contaminant concentrations are decreasing for the majority of site wells with operation of the DPE system. Notable trends or changes regarding specific wells are as follows:

- *BW-5*: LNAPL was not present in BW-5 for the first time since 2019, and concentrations of all COCs except EDB are below NMWQCC standards for the time since the well was installed in 2014. This well is located between two active remediation wells, RW-3 and RW-4.
- *BW-7*: Between September 2015 and March 2021, concentrations of BTEX constituents decreased from 17,750 to 1,016.3 µg/L, including individual decreases in benzene (9,400 to 1,000 µg/L), toluene (5,000 to <2.0 µg/L), ethylbenzene (750 to <13 µg/L), and total xylenes (2,600 to 3.3 µg/L). During the current monitoring event, only EDB (0.12 µg/L) and EDC (43 µg/L) were detected at concentrations exceeding the NMWQCC standards. Concentrations of all other COCs were below laboratory reporting limits. This is a positive indicator of ongoing remediation system operation.
- *BW-7R*: Since the well was installed in 2019, concentrations of BTEX constituents have increased from 71.1 to 2,684 µg/L. During the current monitoring event, benzene (1,700 µg/L), EDB (7.3 µg/L), EDC (210 µg/L), and total naphthalenes (30 µg/L) were detected at concentrations at or above the NMWQCC standards. This well is likely pulling contaminated groundwater from the heart of the plume, so higher concentrations are a positive indicator of active remediation system operation.
- *BW-8*: Contaminant concentrations generally increased from 2016 to 2021. Since March 2021, concentrations of BTEX constituents decreased by an order of magnitude, from 45,200 to 3,880 µg/L, including individual decreases in concentrations of benzene (14,000 to 1,500 µg/L), toluene (23,000 to 1,300 µg/L), and total xylenes (6,600 to 910 µg/L). In addition to these constituents, concentrations of EDB (36 µg/L) and EDC (98 µg/L) were above the NMWQCC standards. This well operates with the SVE system, but does not have an installed groundwater extraction pump. Due to its location next to the former source area, DBS&A will monitor future contaminant trends in this well closely, but the recent decrease in COC concentrations is a positive indicator of remediation system operation.
- *MW-11*: COC concentrations have not changed significantly since the well was installed in September 2019. During the current monitoring event, benzene (3,200 µg/L), total xylenes (910 µg/L), EDB (1.2 µg/L), EDC (220 µg/L), and total naphthalenes (51 µg/L) were detected at concentrations exceeding the NMWQCC standards. This well is likely pulling contaminated groundwater from the heart of the plume, so contaminant trends will be monitored closely with ongoing remediation system operation.
- *MW-12*: Between 2019 and 2021, COC concentrations in this well decreased by approximately an order of magnitude, but concentrations during the current monitoring

event were higher. Benzene (540 µg/L), EDB (1.2 µg/L), and EDC (120 µg/L) concentrations exceeded the NMWQCC standards. It is likely that contaminated water from the interior of the plume has migrated to this well during active remediation system pumping.

- *MW-15*: The benzene concentration in this well (11 µg/L) was above the NMWQCC standard; historically, it has been below laboratory reporting limits. DBS&A will continue to monitor concentration trends in this downgradient well during remediation system operation. The recent benzene detection could be an artifact of remediation system startup.
- *MW-16*: Since March 2021, benzene concentrations increased by two orders of magnitude (10 µg/L to 1,500 µg/L). Benzene, EDB (0.74 µg/L), and EDC (77 µg/L) concentrations remain above the NMWQCC standards. This remediation well is likely pulling contaminated water from upgradient to be treated by the remediation system.
- *RW-2*: LNAPL was detected during the last monitoring event in March 2021, and no sampling occurred in this well. Since December 2020, concentrations of BTEX constituents decreased by almost two orders of magnitude, from 15,780 to 234 µg/L, including individual decreases in concentrations of benzene (7,400 to 41 µg/L), toluene (6,200 to 73 µg/L), and total xylenes (1,800 to 120 µg/L). Benzene, EDB (12 µg/L), and EDC (20 µg/L) concentrations persist above NMWQCC standards despite the significant decrease. Due to the well's location within the former source area, these trends are a positive indicator of remediation system operation.
- *RW-3*: Since the installation of the well in 2019, concentrations of BTEX constituents decreased by an order of magnitude, from 11,810 to 900 µg/L, including individual decreases in concentrations of benzene (4,100 to 320 µg/L), toluene (5,100 to 330 µg/L), and total xylenes (2,300 to 250 µg/L). In addition to benzene, concentrations of EDB (8.0 µg/L) and EDC (83 µg/L) exceeded the NMWQCC standards.
- *RW-4*: COC concentrations in this well have generally been increasing since its installation in 2019, including BTEX (1,807 to 6,360 µg/L), EDB (5.2 to 47 µg/L), and EDC (28 to 230 µg/L). This source area well is likely pulling contaminated source area groundwater from under the roadway, and has one of the highest groundwater extraction rates during remediation system operation. During the current monitoring event, benzene concentration decreased, whereas concentrations of toluene and total xylenes increased. These trends are a positive indicator of increases in biodegradation, and will be monitored closely during future sampling events.

COC concentrations in wells MW-14 and MW-17 continued to be below laboratory reporting limits or NMWQCC standards.

4. Conclusions and Recommendations

The DPE remediation system is operating as intended, and is already showing a positive impact in the source area. Measurable LNAPL was not present in wells during this monitoring event, and contaminant concentrations are changing as anticipated. COC concentrations in wells within the heart of the plume are increasing, and concentrations in wells on the perimeter of the dissolved-phase plume are decreasing. Influent raw water concentrations in remediation system samples also decreased in January. It is likely that fresh water is being pulled from upgradient into the source area due to pumping by the remediation wells, resulting in containment of the plume in the capture zone of the remediation well network. Trends will be monitored closely to maximize mass removal from the subsurface.

A total mass of more than 70,000 pounds (11,700 gallons) of hydrocarbons has been removed from the site using the installed remediation equipment. Thermal oxidizer efficiency is improving with continued operation and has consistently averaged more than 99 percent since December 2023. The groundwater treatment system is also operating within design parameters. Lighter hydrocarbons (e.g., benzene and TPH GRO) are being removed at an average of 95 to 97 percent, whereas heavier hydrocarbons (e.g., EDB and EDC) are being removed at an average of 80 to 87 percent. Trends in contaminant concentrations will be monitored closely so that equipment can be operated within manufacturer specifications.

Installed remediation wells are also performing in accordance with the design, although several individual well flow rates started to decrease with ongoing system operation. Further investigation and corrective action to restore groundwater production is ongoing. DBS&A intends to disinfect the wells and conveyance piping to treat bacterial growth in the remediation system. Results of this work, along with recommendations for additional corrective action if needed, will be included in the next quarterly report and discussed with the PSTB project manager.


DBS&A recommends that the installed remediation system continue to operate in accordance with the approved work plan. O&M and evaluation of the remediation system will continue to be performed on a biweekly, quarterly, and annual basis (DBS&A, 2023). This will include a

combination of field screening data and laboratory samples. The system will be operated and maintained for optimal efficiency and to maximize mass removal.

DBS&A recommends performing the next quarterly groundwater monitoring event similar to the current event, with collection of two sets of water level data (during pumping and static) and collection of remediation well groundwater samples with the system operating. This provides the clearest picture of individual well concentrations during ongoing system operation. For the third quarter monitoring event, DBS&A may consider requesting access to contingency set-aside funds to allow for collection of an additional set of remediation well groundwater samples while the remediation system is turned off to assess how a short period of downtime affects contaminant concentrations.

Statement of Familiarity

I, the undersigned, am personally familiar with the information submitted in this report and the attached documents and attest that it is true and complete.

Signature: 

Authorized Representative: Thomas Golden, P.E.

Affiliation: Daniel B. Stephens & Associates, Inc.

Title: Senior Engineer

Date: February 23, 2024

References

Daniel B. Stephens & Associates, Inc. (DBS&A). 2021. *Final remediation plan, Former Y Station State Lead Site, 721 Commerce Way, Clovis, New Mexico, Facility ID #53742, Release ID #4746, WPID #4134*. Prepared for New Mexico Environment Department Petroleum Storage Tank Bureau, Roswell, New Mexico. July 16, 2021. Revised August 12, 2021.

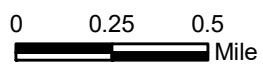
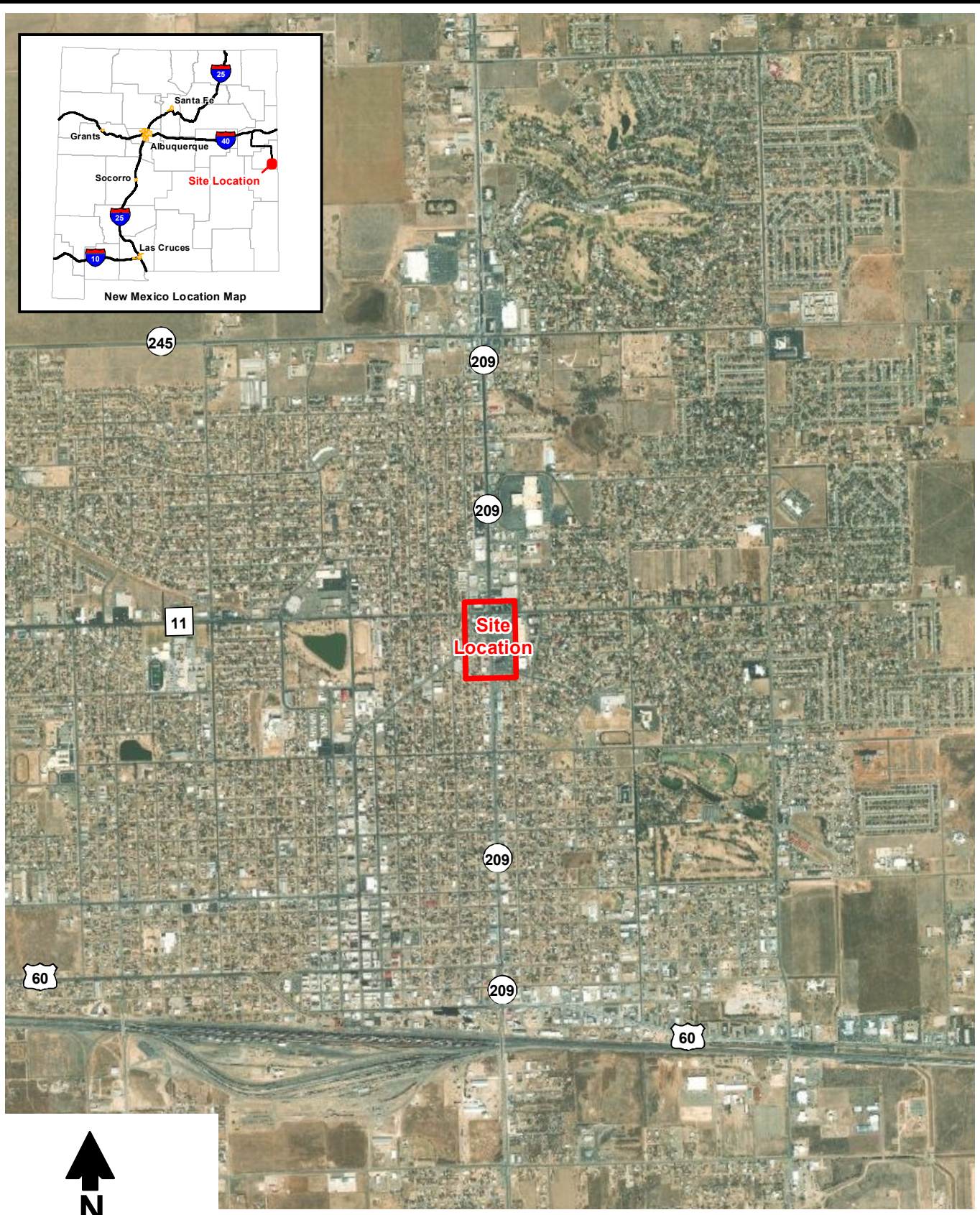
DBS&A. 2023. *Work plan for quarterly remediation system shakedown and startup, operation and maintenance, and groundwater monitoring, State Lead Remediation Services Contract (24-*

667-3200-27686), *Former Y Station State Lead Site, Clovis, New Mexico, Facility #53742, Release ID #4746*. Transmitted by letter from Thomas Golden and James A. Kelsey to Renee Romero, New Mexico Environment Department Petroleum Storage Tank Bureau, regarding Revised work plan for quarterly remediation system shakedown and startup, operation and maintenance, and groundwater monitoring, Former Y Station State Lead Site, 721 Commerce Way, Clovis, New Mexico, Facility #53742, Release ID #4746. September 20, 2023.

DBS&A. 2024. *Revised remediation system installation as-built report, Former Y Station State Lead Site, Clovis, New Mexico, Facility #53742, Release ID #4746*. Prepared for New Mexico Environment Department Petroleum Storage Tank Bureau, Roswell, New Mexico. May 2, 2022. Revised January 8, 2024.

New Mexico Environment Department (NMED). 2023. Letter from Lorena Goerger to Thomas Golden, DBS&A, regarding Phase 5 fixed-price workplan approval for the Former Y Station Site, 721 Commerce Way, Clovis, New Mexico, Facility #: 53742, Release ID #: 4746, WPID #: 4339. September 28, 2023.

Figures



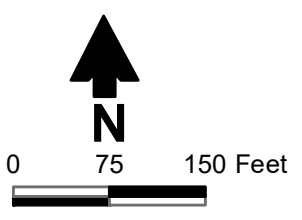
FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
Area Map



3/17/2023 JN DB18.1157

Figure 1

S:\PROJECTS\DB18.1157_FORMER_Y_STATION\GIS\MXD\S\F01_AREA_MAP.MXD

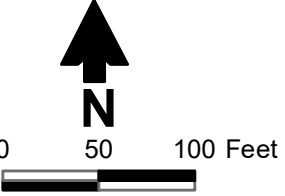
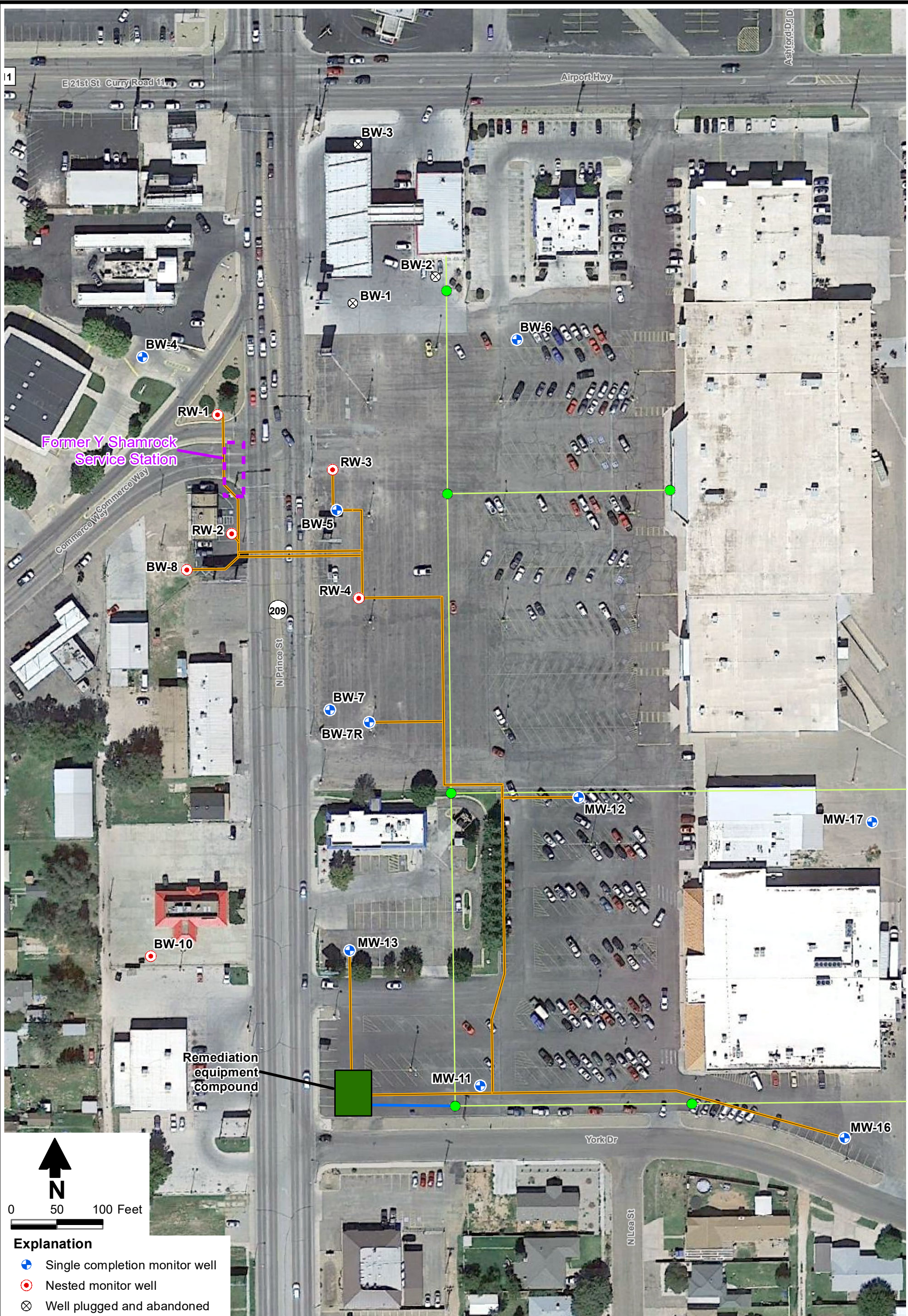


Explanation

- + Single completion monitor well
- Nested monitor well
- ⊗ Well plugged and abandoned

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
Site Map

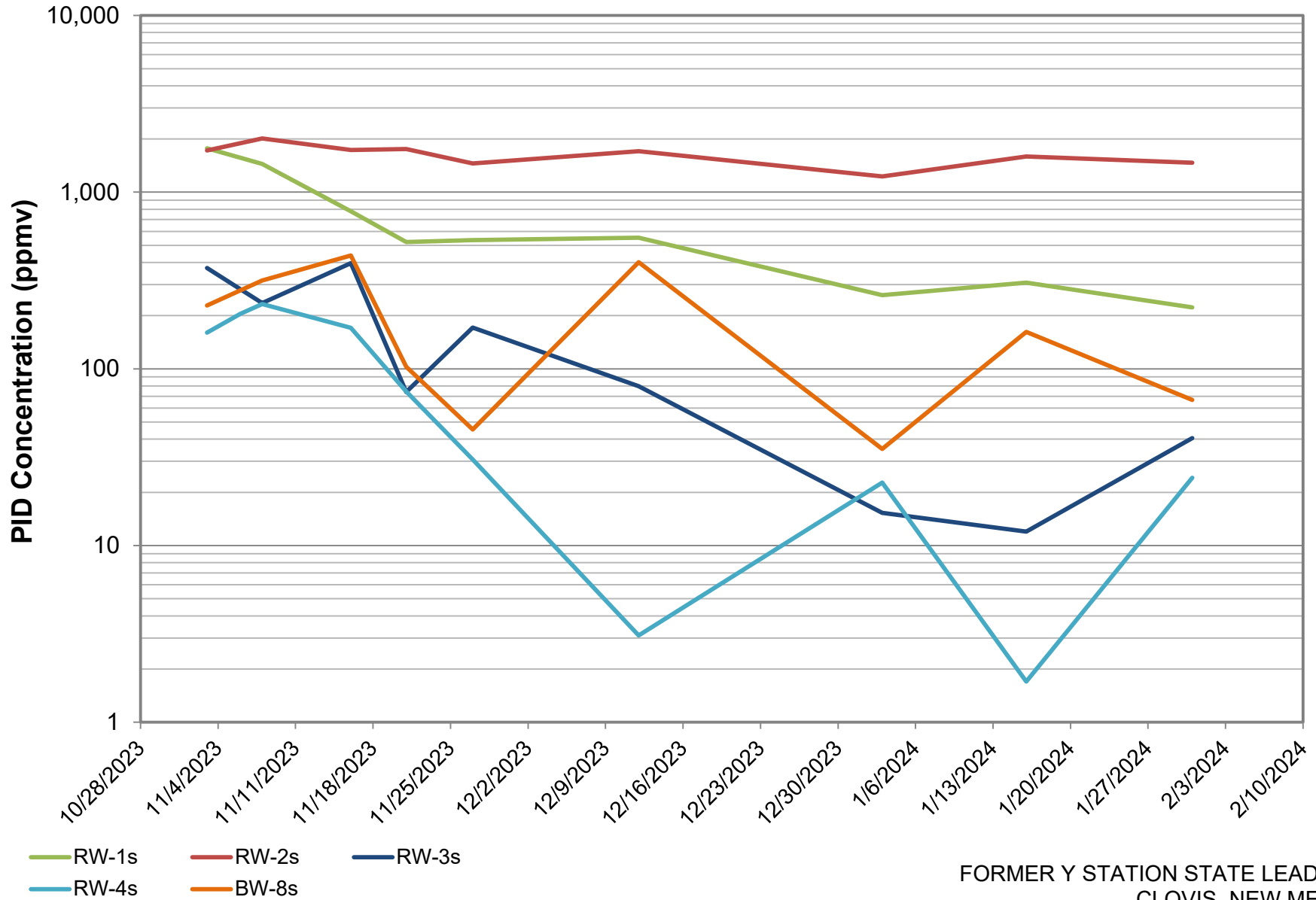
Figure 2



- Explanation**
- + Single completion monitor well
 - Nested monitor well
 - ⊗ Well plugged and abandoned
 - Manhole
 - Raw water / soil vapor
 - Treated water
 - Sewer main

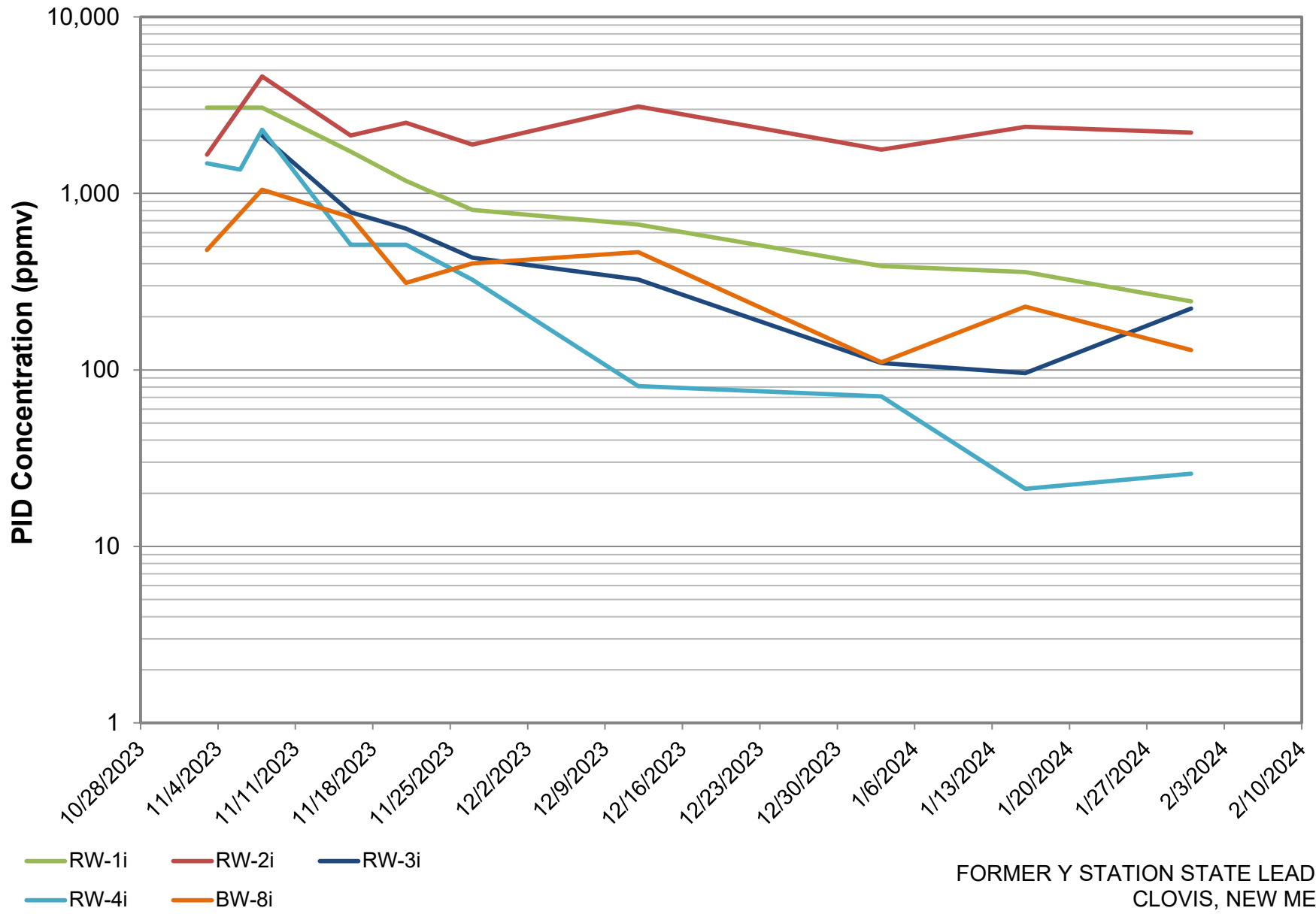
FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
Remediation System Layout

Figure 3



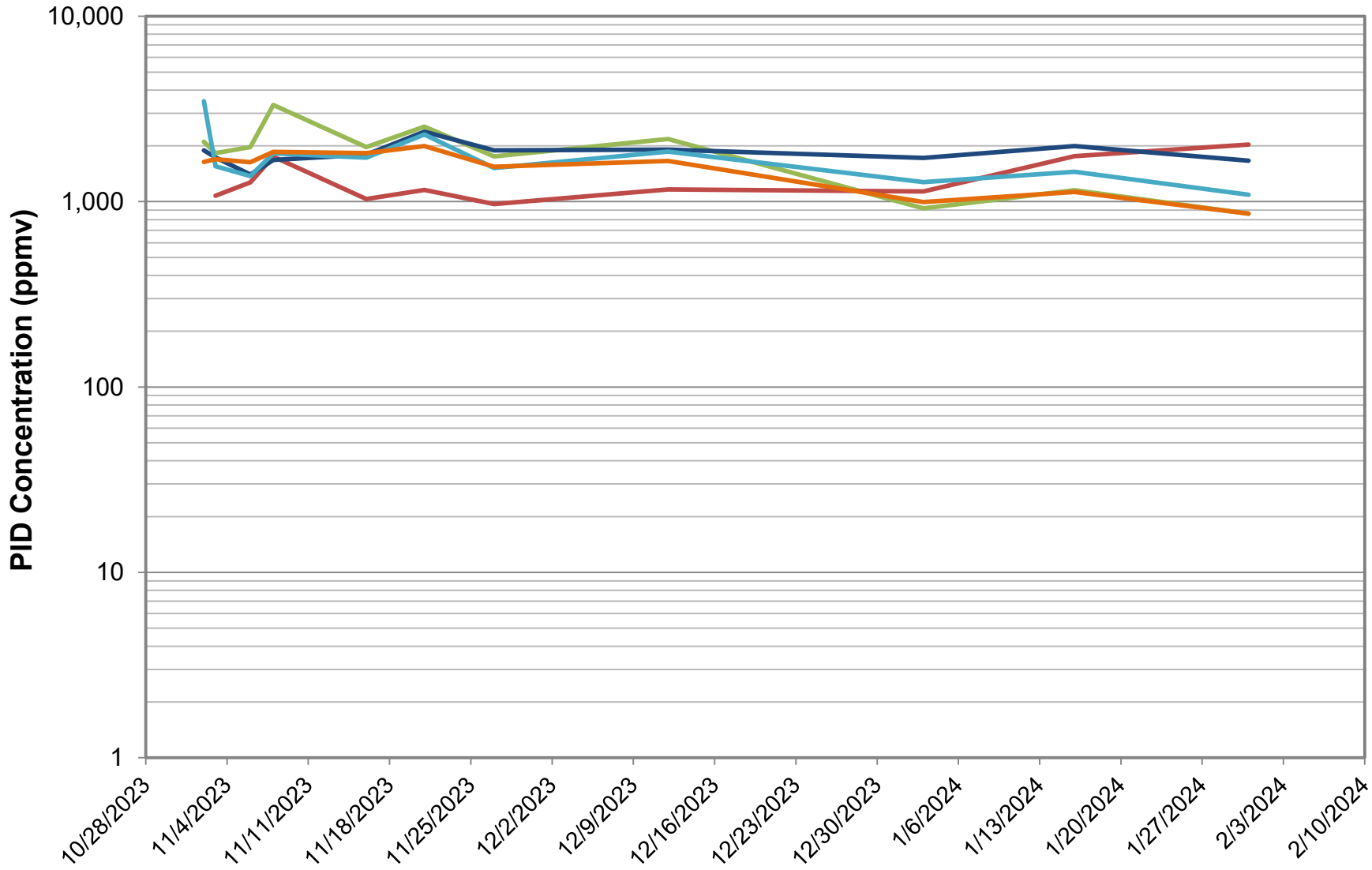
FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
Field Screening PID Readings
Source Area Wells, Shallow Zone

Figure 4



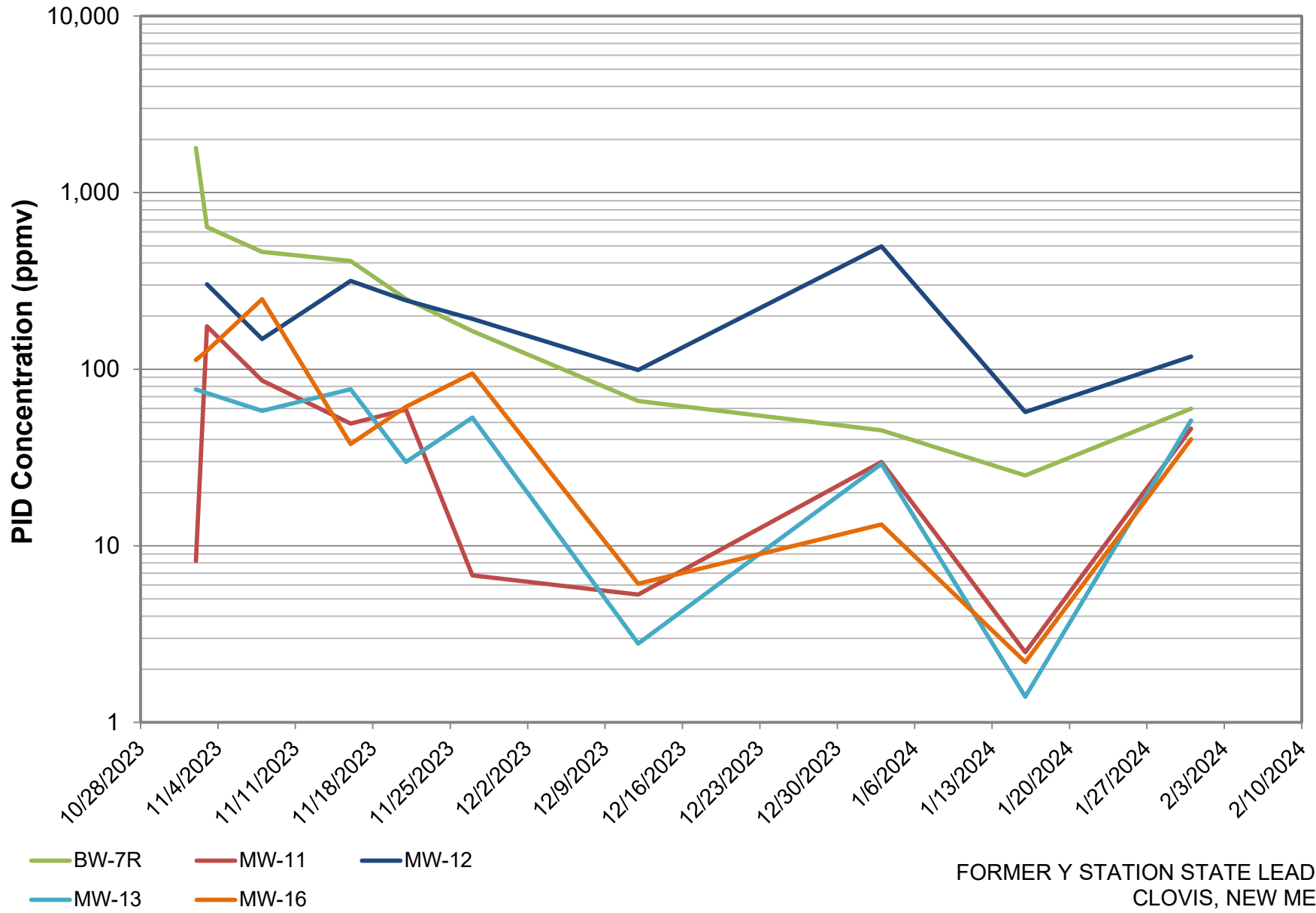
FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
Field Screening PID Readings
Source Area Wells, Intermediate Zone

Figure 5



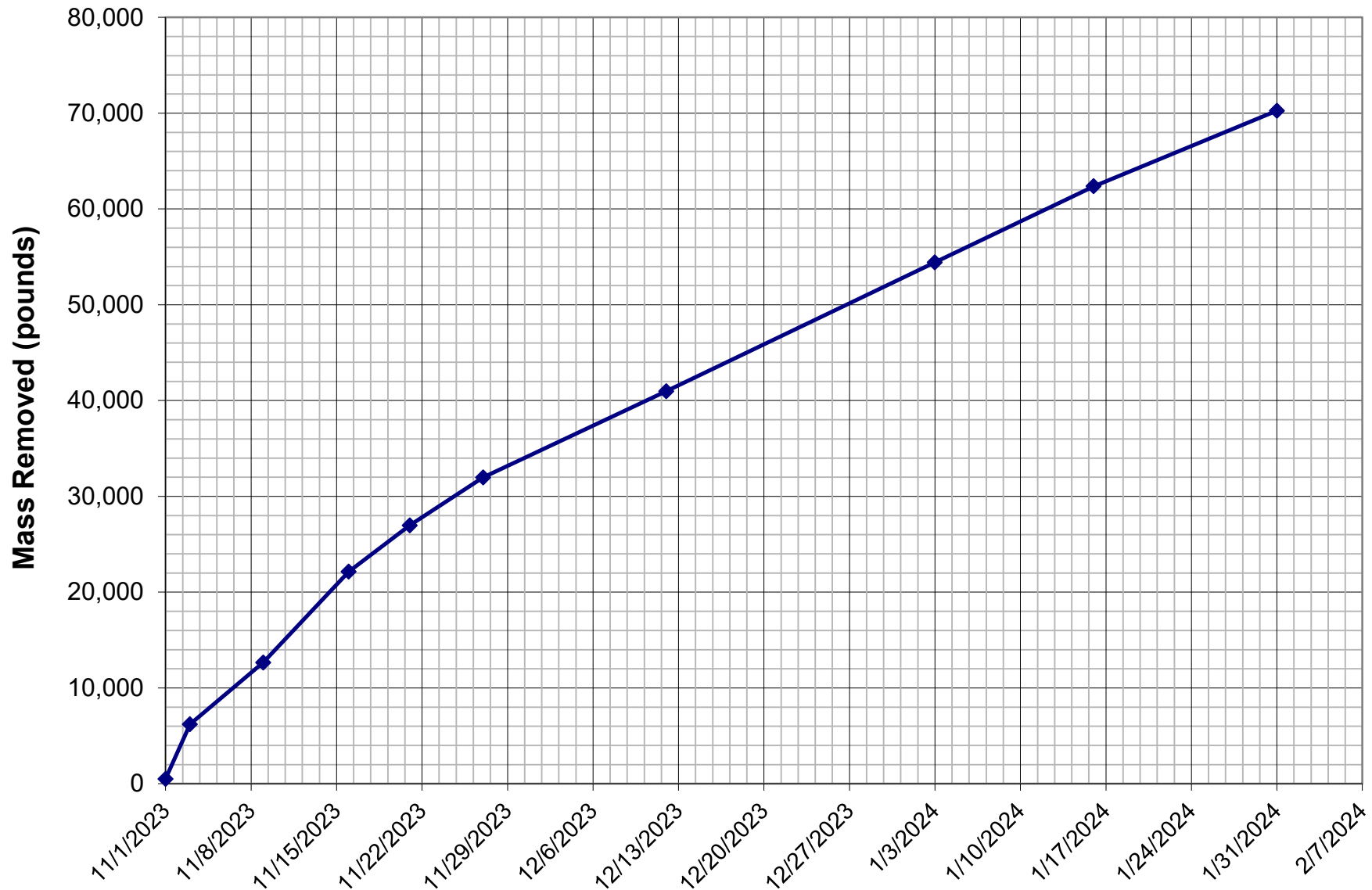
FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
Field Screening PID Readings
Source Area Wells, Deep Zone

Figure 6



FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
Field Screening PID Readings
Off-Site Wells

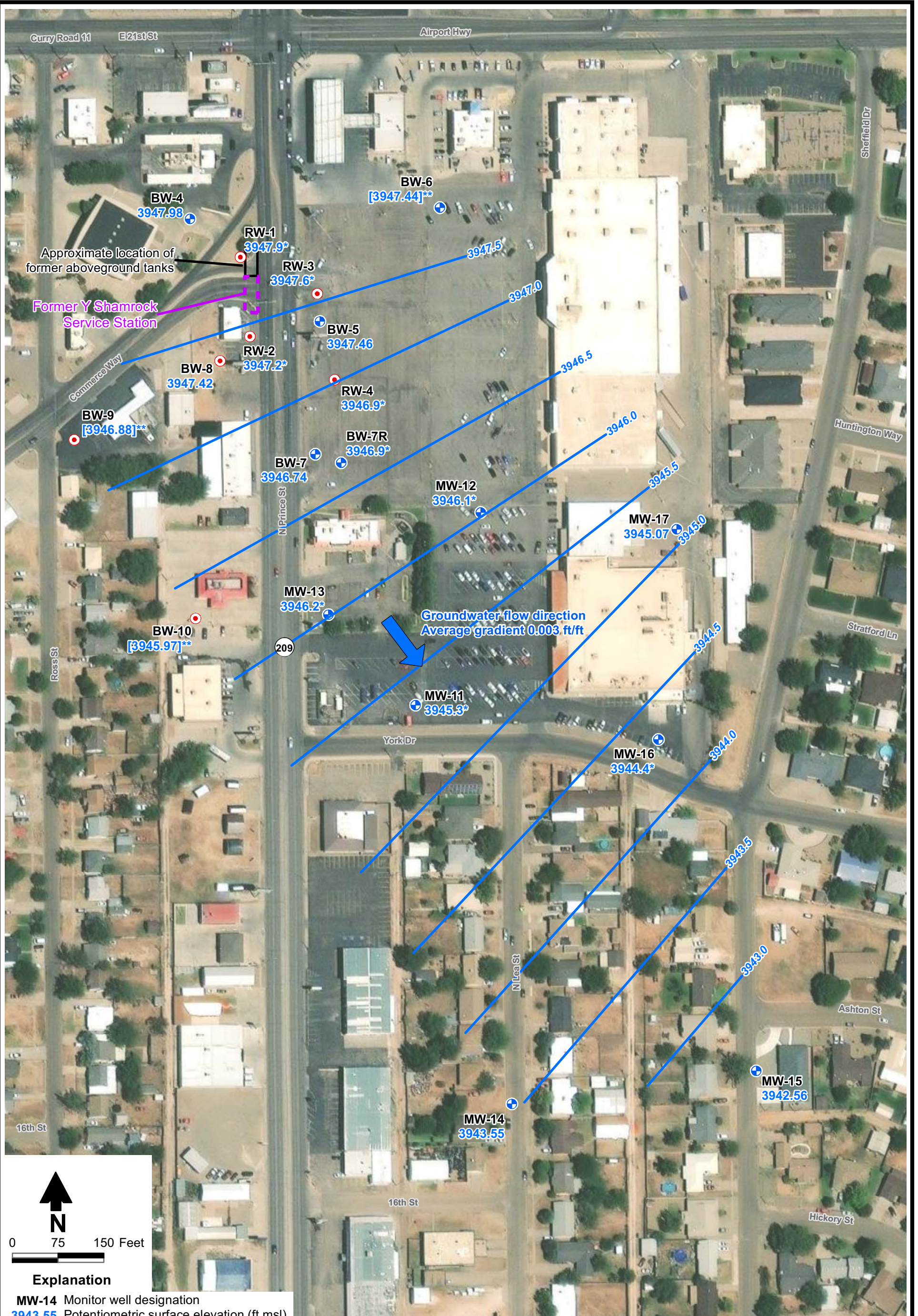
Figure 7



◆ TPH GRO laboratory analysis (vapor and water)

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
Cumulative Mass Removal

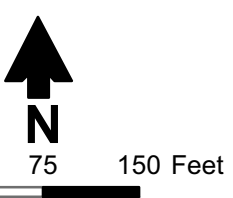
Figure 8



Approximate location of former aboveground tanks

Former Y Shamrock Service Station

Groundwater flow direction
Average gradient 0.003 ft/ft



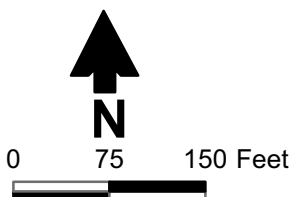
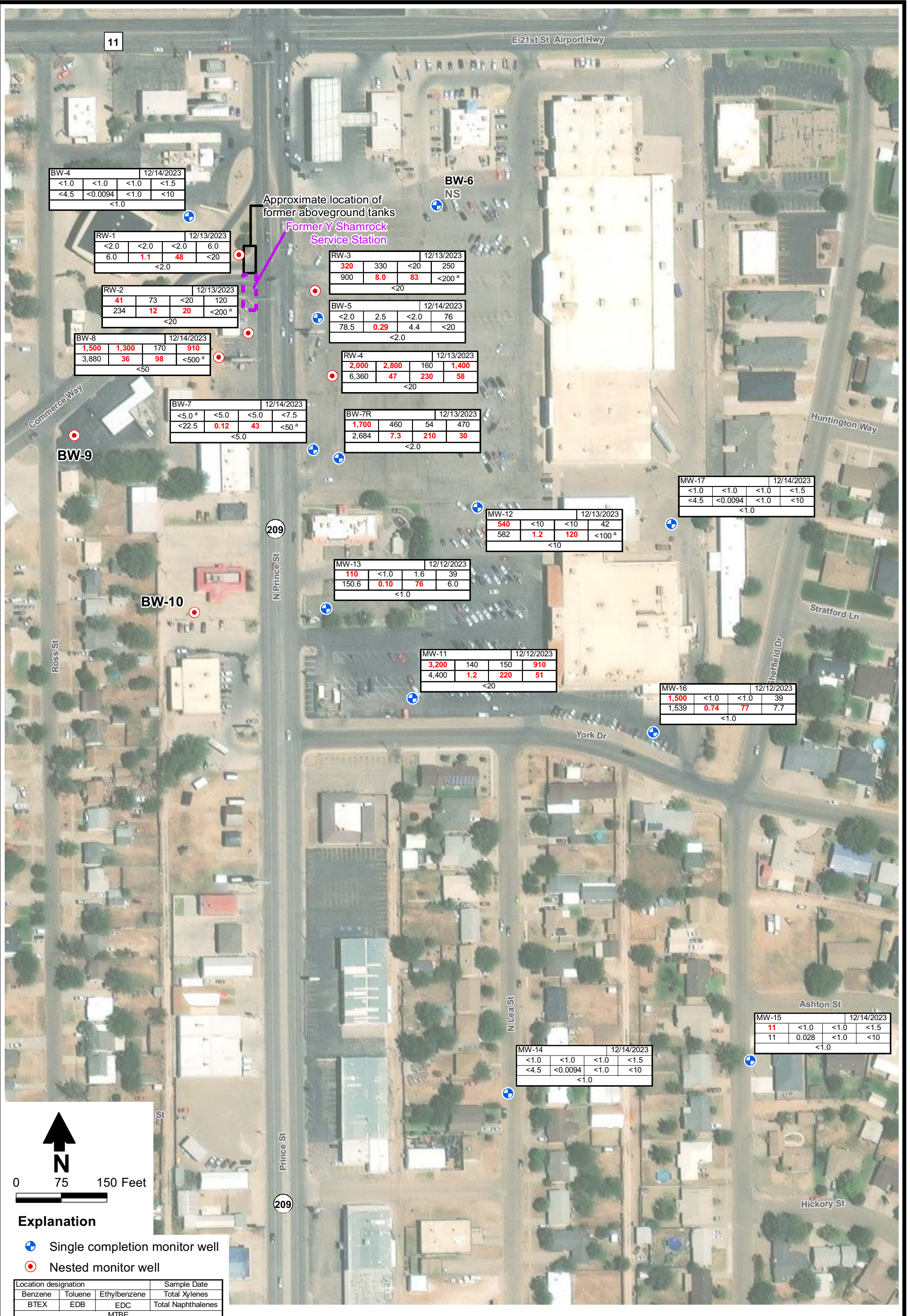
Explanation

- MW-14** Monitor well designation
- 3943.55** Potentiometric surface elevation (ft msl)
- [3945.97]** Well not used for contouring
- ⊕ Single completion monitor well
- ⊙ Nested monitor well
- Potentiometric surface elevation contour (ft msl)

Notes: * Transducer data used to calculate potentiometric surface elevation
** Depth to water measured while remediation system operating

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
Potentiometric Surface Elevations
December 14, 2023

Figure 9



Explanation

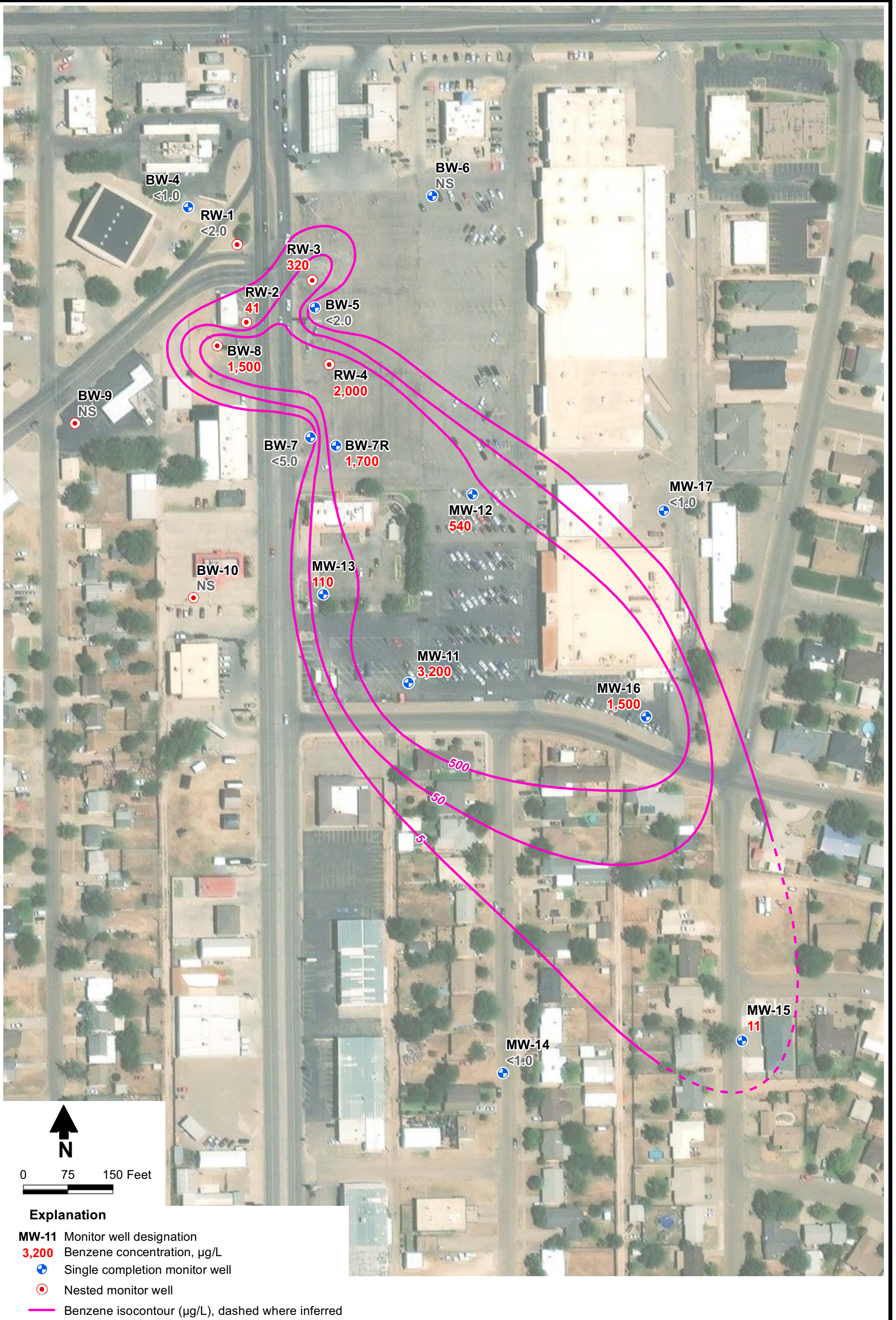
- + Single completion monitor well
- o Nested monitor well

Location designation			Sample Date
Benzene	Toluene	Ethylbenzene	Total Xylenes
BTEX	EDB	EDC	Total Naphthalenes
MTBE			

- Notes: 1. All concentrations reported in micrograms per liter (µg/L).
 2. **RED** indicates concentration that exceeds NMWQCC standard.
 3. ^a Laboratory reporting limit is equal to or greater than the applicable standard.
 4. Samples presented on this figure were collected using HydraSleeve sampling devices.

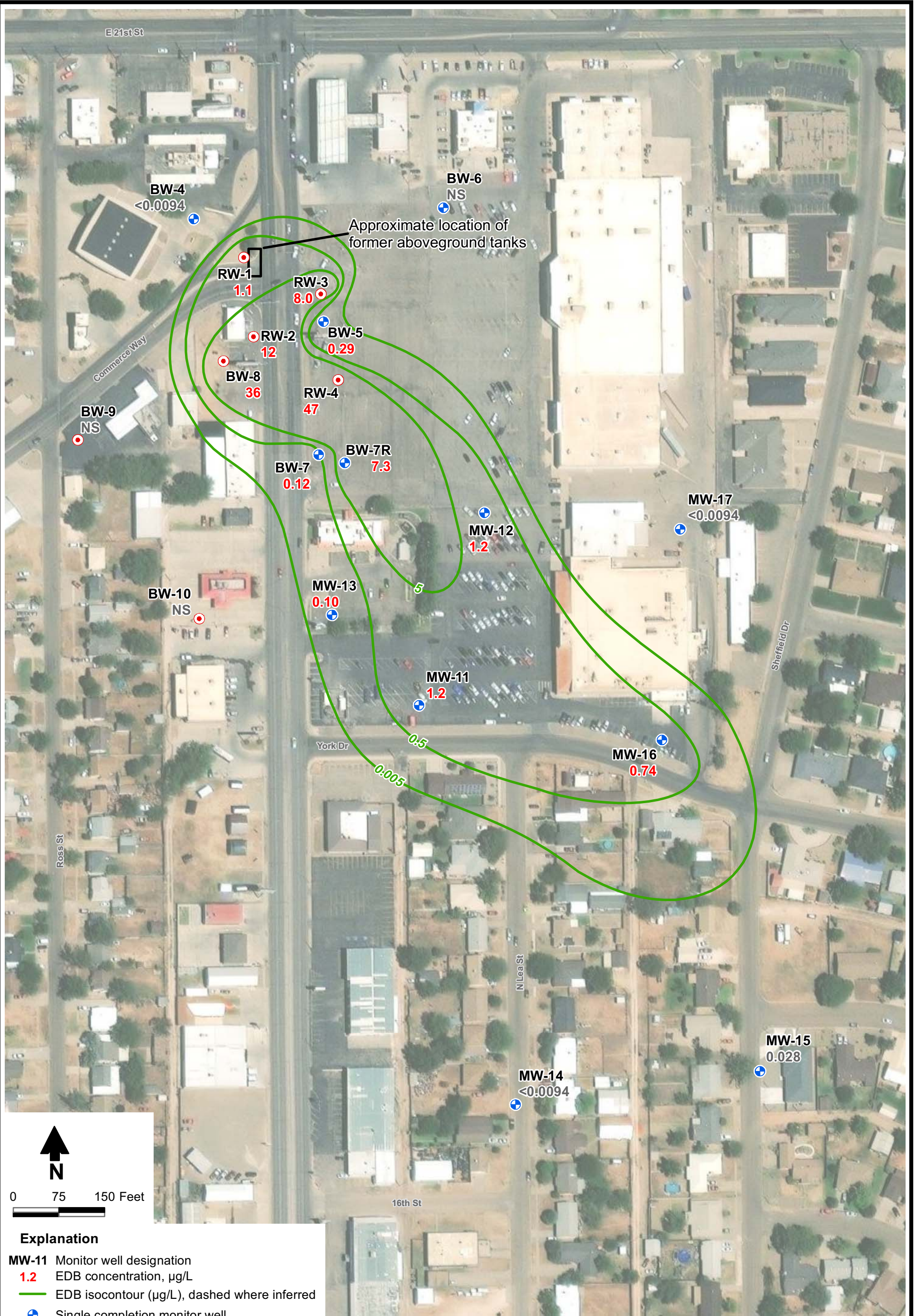
FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
**Distribution of Dissolved-Phase
 Contaminants, December 12-14, 2023**

Figure 10



FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
Benzene Isoconcentration Map
 December 12-14, 2023

Figure 11



0 75 150 Feet

Explanation

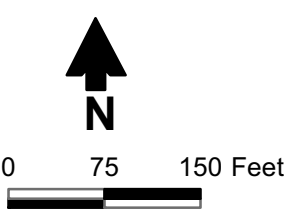
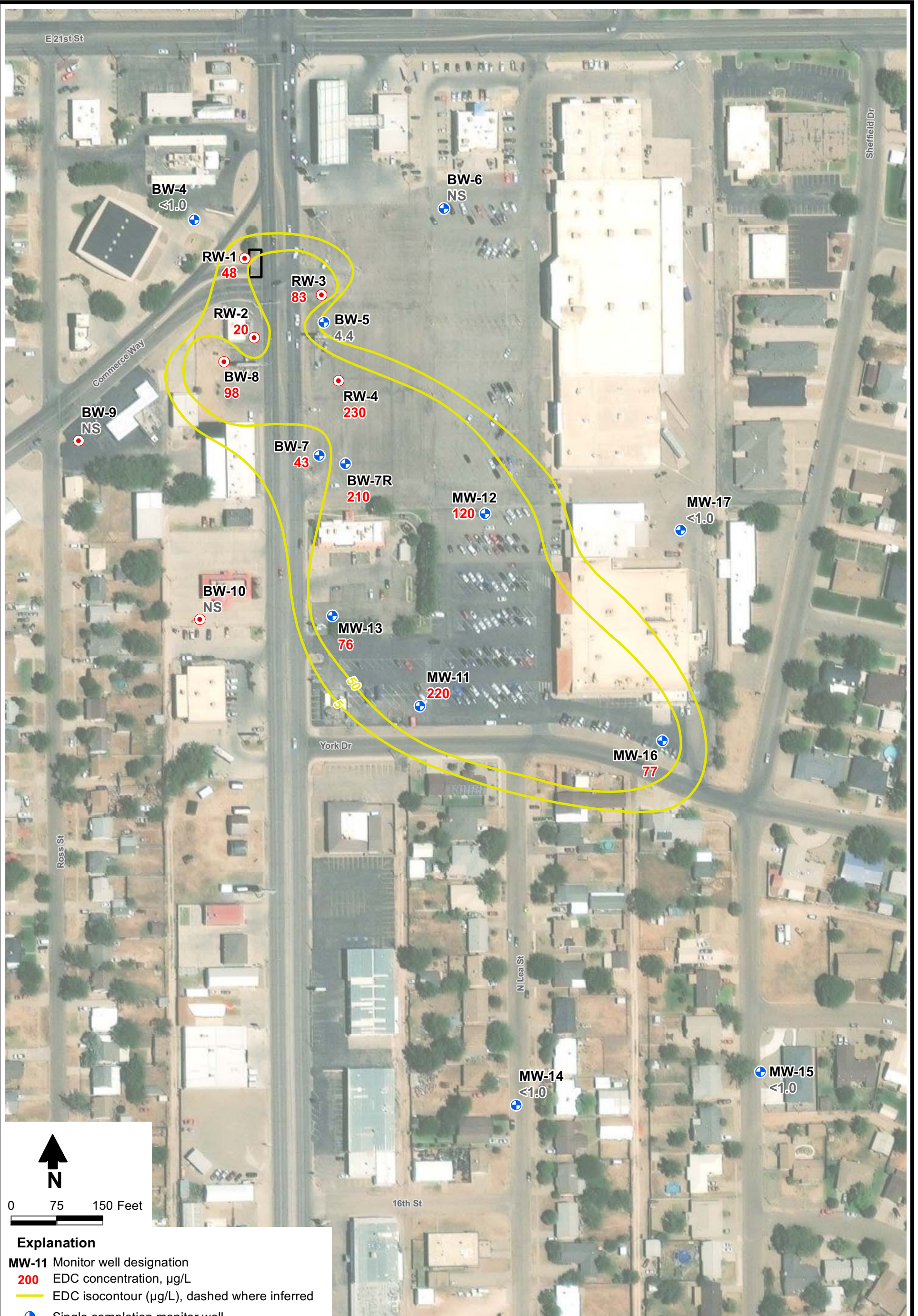
- MW-11** Monitor well designation
- 1.2** EDB concentration, µg/L
- EDB isocontour (µg/L), dashed where inferred
- +** Single completion monitor well
- o** Nested monitor well

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
 2. **RED** indicates concentration that exceeds NMWQCC standard.
 3. Samples collected on this figure were collected using HydraSleeve sampling devices.

FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO

**EDB Isoconcentration Map
 December 12-14, 2023**

Figure 12



- Explanation**
- MW-11** Monitor well designation
 - 200** EDC concentration, µg/L
 - EDC isoconcentration (µg/L), dashed where inferred
 - +** Single completion monitor well
 - Nested monitor well

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
 2. **RED** indicates concentration that exceeds NMWQCC standard.
 3. Samples collected on this figure were collected using HydraSleeve sampling devices.

FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
EDC Isoconcentration Map
 December 12-14, 2023

Figure 13

Tables

Table 1. SVE System Manifold and Oxidizer Operation Data

Date	Oxidizer Hours	Time	SVE Line 1			SVE Line 2			SVE Line 3			Combined Influent			Oxidizer Effluent	DPE Blower	
			PID (ppmv)	Flow ^a (cfm)	Vac ^b (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac ^b (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac ^b (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac ^b (in. H ₂ O)	PID (ppmv)	Flow ^c (cfm)	Vac ^d (in. H ₂ O)
11/1/2023	NA	13:56	7,332	581	42	398	222	41	NA	NA	NA	15,000	902	42	3,193	NA	NA
11/2/2023	31	8:45	2,231	932	47	312	267	47	NA	NA	NA	1,718	761	48	1,374	NA	42
11/3/2023	58	15:08	1,505	675	44	261	288	44	NA	NA	NA	1,446	1,005	44	481	762	47
11/8/2023	175	7:10	1,804	NA	45	312	NA	44	70	NA	45	1,564	NA	45	399	750	50
11/16/2023	368	14:10	1,703	815	44	230	292	44	169	66	43	1,368	1,008	45	219	766	48
11/21/2023	485	13:47	1,885	843	46	195	304	46	9	64	45	1,523	1,031	47	171	762	53
11/27/2023	633	13:16	1,480	674	50	142	295	49	77	66	48	1,105	946	50	92	765	53
12/12/2023	963	8:00	1,525	1,460	53	78	311	50	56	72	51	825	950	51	46	775	56
1/3/2024	1,463	7:30	1,293	1,079	53	76	353	52	15	82	51	788	1,090	54	189	775	56
1/16/2024	1,756	14:00	538	1,351	57	31	485	48	25	127	48	702	1,400	55	54	781	57
1/31/2024	2,115	8:30	1,243	1,419	54	132	378	52	NR	NR	21	896	1,285	54	82	764	59

^a Vapor flow reading measured with a VelociCalc flow meter.

^b Vacuum reading taken from the combined influent sample port using a digital manometer.

^c Vapor flow reading taken from soil vapor extraction (SVE) system control panel, which converts flow from data collected by an averaging pitot tube.

^d Vacuum reading taken from SVE system control panel.

PID = Photoionization detector
 ppmv = Parts per million by volume
 cfm = Cubic feet per minute
 in. H₂O = Inches water column
 NA = Not available
 NR = No reading

Table 2. SVE System Wellhead Operation Data
Page 1 of 2

Date	Time	RW-1s			RW-1i			RW-1d			RW-2s			RW-2i			RW-2d			RW-3s			RW-3i		
		PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (scfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (scfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (scfm)	Vac (in. H ₂ O)
11/2/2023	NA	NA	NA	NA	NA	NA	NA	2,106	59	29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11/3/2023	NA	1,773	NA	30	3,065	NA	30	1,829	55	30	1,719	NA	30	1,658	NA	29	1,075	31	29	373	NA	30	NA	NA	NA
11/6/2023	15:49	NA	NA	NA	NA	NA	NA	1,970	NA	31	NA	NA	NA	NA	NA	NA	1,269	NA	32	NA	NA	NA	NA	NA	NA
11/8/2023	7:26	1,445	NA	32	3,063	NA	32	3,321	NA	33	2,016	NA	37	4,609	NA	41	1,751	NA	45	236	NA	34	2,128	NA	34
11/16/2023	7:39	779	45	31	1,729	31	32	1,968	56	32	1,733	50	33	2,129	41	33	1,033	30	33	397	37	35	782	31	36
11/21/2023	15:45	522	53	29	1,177	33	29	2,542	53	29	1,755	49	34	2,517	42	33	1,155	29	33	74	37	35	632	32	35
11/27/2023	13:46	535	45	33	808	31	34	1,755	49	34	1,453	47	36	1,894	40	35	972	28	35	171	37	35	433	31	35
12/12/2023	8:00	553	45	34	666	29	34	2,180	41	34	1,703	42	35	3,108	34	34	1,164	27	34	80	36	36	325	28	36
1/3/2024	10:30	261	34	31	388	29	32	921	37	32	1,228	33	33	1,771	34	32	1,135	24	32	15	33	34	110	28	34
1/16/2024	8:00	308	55	29	359	31	30	1,152	51	30	1,593	46	33	2,383	5	31	1,757	32	31	12	34	32	96	12	32
1/31/2024	8:30	223	49	30	245	32	30	863	43	30	1,468	47	35	2,212	48	34	2,033	35	33	41	42	35	223	34	35

Date	Time	RW-3d			RW-4s			RW-4i			RW-4d			BW-8s			BW-8i			BW-8d			BW-7R		
		PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (scfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (scfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (scfm)	Vac (in. H ₂ O)
11/2/2023	NA	1,892	39	29	NA	NA	NA	NA	NA	NA	3,479	48	30	NA	NA	NA	NA	NA	NA	1,638	47	30	1,786	66	31
11/3/2023	NA	1,730	46	23	160	NA	35	1,483	NA	34	1,552	11	9	229	NA	27	479	NA	28	1,694	55	34	638	63	34
11/6/2023	15:49	1,398	NA	33	205	NA	37	1,365	NA	36	1,376	NA	34	NA	NA	NA	NA	NA	NA	1,631	NA	31	NA	NA	NA
11/8/2023	7:26	1,680	NA	34	232	NA	41	2,297	NA	39	1,819	NA	38	316	NA	33	1,051	NA	32	1,854	NA	33	463	NA	33
11/16/2023	7:39	1,792	40	36	171	43	36	513	48	37	1,727	46	36	438	60	32	736	41	33	1,829	39	33	411	60	33
11/21/2023	15:45	2,384	40	35	75	41	38	512	50	37	2,303	49	36	103	65	32	312	42	32	1,995	39	32	250	60	34
11/27/2023	13:46	1,891	40	37	31	39	40	325	46	39	1,517	45	38	45	62	33	401	39	34	1,545	37	34	164	60	34
12/12/2023	8:00	1,911	34	36	3	45	40	81	41	40	1,861	43	40	402	57	33	466	38	33	1,660	36	33	66	50	36
1/3/2024	10:30	1,722	37	34	23	45	39	71	41	38	1,274	43	38	35	53	30	111	37	31	994	36	31	45	43	31
1/16/2024	8:00	1,994	42	32	2	53	37	21	48	36	1,448	49	36	162	59	29	228	41	29	1,129	41	29	25	58	29
1/31/2024	8:30	1,662	44	35	24	59	39	26	51	38	1,089	54	38	67	64	31	129	42	31	862	41	31	60	60	32

Notes are provided at the end of the table.

Table 2. SVE System Wellhead Operation Data
Page 2 of 2

Date	Time	MW-11			MW-12			MW-13			MW-16		
		PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)
11/2/2023	NA	8	67	32	NA	NA	NA	77	3	1	113	108	35
11/3/2023	NA	175	64	38	303	64	34	NA	NA	NA	127	98	34
11/6/2023	15:49	NA	NA	35	NA	NA	NA	NA	NA	33	NA	NA	33
11/8/2023	7:26	86	NA	39	148	NA	7	58	NA	36	249	NA	35
11/16/2023	7:39	49	64	35	316	64	32	77	65	33	38	102	31
11/21/2023	15:45	59	60	37	246	64	33	30	63	35	61	96	33
11/27/2023	13:46	7	59	39	193	64	35	53	64	36	95	96	36
12/12/2023	8:00	5	66	41	99	58	38	3	55	36	6	93	36
1/3/2024	10:30	30	53	41	497	60	35	29	53	36	13	86	36
1/16/2024	8:00	3	69	40	57	70	33	1	65	34	2	115	34
1/31/2024	8:30	46	69	41	118	76	37	51	0	2	40	109	36

^a Vapor flow reading measured with a VelociCalc flow meter.
SVE = Soil vapor extraction cfm = Cubic feet per minute
PID = Photoionization detector in. H₂O = Inches water column
ppmv = Parts per million by volume NA = Not available

Table 3. Water Flow Meter Readings for Individual Wells and Treated Discharge
Page 1 of 2

Date	Time	RW-1		RW-2		RW-3		RW-4		BW-7R		MW-11		MW-12	
		Totalized Flow ^a (gallons)	Transducer (feet) ^b	Totalized Flow ^a (gallons)	Transducer (feet) ^b	Totalized Flow ^a (gallons)	Transducer (feet) ^b	Totalized Flow ^a (gallons)	Transducer (feet) ^b	Totalized Flow ^a (gallons)	Transducer (feet) ^b	Totalized Flow ^a (gallons)	Transducer (feet) ^b	Totalized Flow ^a (gallons)	Transducer (feet) ^b
<i>OSE POD Number</i>		<i>CC-02536 POD1</i>		<i>CC-02536 POD2</i>		<i>CC-02536 POD3</i>		<i>CC-02536 POD4</i>		<i>CC-02536 POD5</i>		<i>CC-02536 POD6</i>		<i>CC-02536 POD7</i>	
<i>Meter Serial Number</i>		<i>20 006378 NL</i>		<i>20 006383 NL</i>		<i>20 006383 NL</i>		<i>20 006382 NL</i>		<i>20 006376 NL</i>		<i>20 006379 NL</i>		<i>20 006585 NL</i>	
11/1/2023	—	Remediation system started.													
11/3/2023	11:10	4,836	22.8	NA	23.4	12,760	29.9	11,973	22.2	5,132	8.6	5,483	23.0	192	26.5
11/3/2023	17:50	4,897	24.7	NA	23.6	14,144	30.1	13,271	22.5	5,240	27.5	6,134	23.2	192	26.6
11/6/2023	16:00	10,769	19.5	NA	24.4	33,072	30.1	18,279	20.6	5,240	27.6	15,491	22.7	192	26.5
11/8/2023	07:10	14,300	20.9	3,900	24.0	44,800	30.1	43,100	17.7	5,100	27.5	20,600	22.7	200	26.4
11/16/2023	08:34	25,470	21.9	9,000	26.6	91,200	30.3	98,200	20.8	5,100	22.1	43,320	22.9	187	26.7
11/21/2023	13:47	33,950	20.6	10,788	26.3	126,724	30.0	98,200	20.1	12,334	21.9	62,089	22.0	192	26.3
11/27/2023	13:16	48,290	20.3	12,393	25.8	165,275	30.5	99,132	19.0	14,800	19.4	85,413	22.1	200	26.4
11/30/2023	16:09	54,372	NA	13,904	NA	181,562	NA	NR	NA	18,153	NA	94,840	NA	7,123	NA
12/12/2023	12:38	81,199	15.0	17,932	26.6	248,489	31.3	99,939	24.1	25,628	24.6	127,699	22.5	156,674	23.3
12/31/2023	10:02	133,617	14.5	18,517	25.1	336,611	32.8	183,938	28.4	33,091	26.3	175,035	24.5	106,166	24.5
1/3/2024	10:30	142,450	14.8	18,519	25.1	345,877	33.2	192,448	28.5	34,042	26.3	181,571	25.0	114,510	24.6
1/16/2024	12:30	167,900	16.4	27,500	25.9	379,000	32.8	242,480	26.2	50,900	24.2	205,100	25.6	157,300	22.8
1/31/2024	08:27	194,844	14.4	43,665	25.9	384,143	33.4	305,807	27.4	71,407	20.8	220,760	26.7	197,652	24.0
1/31/2024	15:40	195,413	14.4	44,012	25.8	384,143	33.4	307,094	27.3	71,786	20.8	221,050	26.7	198,282	24.0

Notes are provided at the end of the table.

Table 3. Water Flow Meter Readings for Individual Wells and Treated Discharge
Page 2 of 2

Date	Time	MW-13		MW-16		Treated Discharge
		Totalized Flow ^a (gallons)	Transducer (feet) ^b	Totalized Flow ^a (gallons)	Transducer (feet) ^b	Totalized Flow ^a (gallons)
<i>OSE POD Number</i>		<i>CC-02536 POD8</i>		<i>CC-02548 POD3</i>		<i>NA</i>
<i>Meter Serial Number</i>		<i>20 004229 NL</i>		<i>20 006384 NL</i>		<i>20 004230 NL</i>
11/3/2023	11:10	5,365	19.5	5,700	28.9	38,400
11/3/2023	17:50	5,890	19.5	6,354	29.1	42,000
11/6/2023	16:00	14,722	20.3	15,097	29.1	95,400
11/8/2023	07:10	18,700	21.5	18,800	29.7	119,800
11/16/2023	08:34	23,970	19.8	36,130	22.0	221,900
11/21/2023	13:47	40,991	19.1	48,639	20.9	300,900
11/27/2023	13:16	58,457	20.7	63,787	21.5	385,800
11/30/2023	16:09	61,070	NA	69,651	NA	425,300
12/12/2023	12:38	73,858	21.4	91,384	21.0	566,000
12/31/2023	10:02	96,308	21.3	110,067	20.9	755,800
1/3/2024	10:30	99,730	22.0	110,825	21.5	780,000
1/16/2024	12:30	109,000	22.0	111,000	20.7	891,200
1/31/2024	08:27	117,379	22.3	111,415	21.3	1,024,824
1/31/2024	15:40	117,504	22.3	111,418	20.7	1,027,800

^a Flow meters are all Pulsafeeder Multijet Model PME.

^b Height of water column above the installed pressure transducer.

OSE = Office of the State Engineer

POD = Point of diversion

NA = Not available

Table 4. Analytical Organic Chemistry Data for the Remediation System, Air
Page 1 of 2

Sampling Point	Date Sampled	Concentration ^a (µg/L)						
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	TPH GRO
DTA Effluent	11/3/2023	0.27	1.3	0.27	1.9	3.7	<0.25	18
	11/9/2023 ^b	374	547	33	144	1,098	<1.00	16,600
	11/16/2023	19	19	2.3	17	57.3	<0.25	180
	11/28/2023	16	15	1.6	17	49.6	<0.25	160
SVE Combined Influent	11/1/2023	450	880	66	320	1,716	<25	36,000
	11/3/2023	490	1,000	80	410	1,980	<25	34,000
	11/9/2023	314	372	10.2	34.4	731	<1.00	13,800
	11/16/2023	330	740	57	330	1,457	<25	16,000
	11/21/2023	240	540	44	250	1,074	<25	12,000
	11/28/2023	170	450	37	220	877	<25	9,800
	12/12/2023	130	320	23	120	593	<25	7,800
	1/3/2024	99	340	29	150	618	<25	7,700
	1/16/2024	86	330	30	150	596	<25	7,700
1/31/2024	64	260	23	110	457	<25	6,500	
Oxidizer Effluent	11/1/2023	150	160	15	47	372	<12	6,500
	11/3/2023	190	230	23	80	523	<12	4,400
	11/9/2023	99	340	29	126	594	<1.00	2,700
	11/16/2023	44	40	3.9	18	106	<1.2	420
	11/21/2023	24	15	1.2	4.1	44	<1.2	160
	11/28/2023	17	20	2.8	17	57	<1.2	220

Notes are provided at the end of the table.

Table 4. Analytical Organic Chemistry Data for the Remediation System, Air
Page 2 of 2

Sampling Point	Date Sampled	Concentration ^a (µg/L)						
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	TPH GRO
Oxidizer Effluent (cont.)	12/12/2023	8.3	5.0	0.36	1.2	14.86	<0.25	55
	1/3/2024	6.0	3.6	0.24	0.80	10.6	<0.25	36
	1/16/2024	6.8	6.3	0.48	2.0	15.58	<0.20	74
	1/31/2024	4.0	7.0	1	6.00	18.00	<0.20	76

^a Analyzed using U.S. Environmental Protection Agency (EPA) methods 8021B for volatile organic compounds (VOCs) and 8015B for total petroleum hydrocarbons (TPH).

^b Data not believed to be representative of actual field conditions based on other sample results.

µg/L = Micrograms per liter

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

MTBE = Methyl tertiary-butyl ether

GRO = Gasoline-range organics

Table 5. Analytical Organic Chemistry Data for the Remediation System, Water
Page 1 of 2

Well Name	Date Sampled	Concentration ^a (µg/L)									
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB ^b	EDC	PAHs	TPH GRO
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>	<i>NA</i>
GW Combined Influent	11/1/2023	640	260	30	170	1,100	<1.0	2.3	55	8.2	3,800
	11/3/2023	1,100	750	71	440	2,361	<1.0	14	97	33.2	6,900
	11/9/2023	1,300	1,020	48	523	2,891	<13.9	<10 ^c	115	<13.5 ^d	6,090
	11/16/2023	1,400	1,000	70	590	3,060	<20	21	180	<200 ^c	7,800
	11/22/2023	1,200	840	58	560	2,658	<2.0	15	120	32.8	7,000
	11/28/2023	2,000	950	58	620	3,628	<20	22	230	<200 ^c	8,200
	12/14/2023	1,700	1,700	110	1,100	4,610	<20	42	210	46	11,000
	1/3/2024	990	470	31	320	1,811	<20	12	140	<200 ^c	5,300
	1/16/2024	850	590	35	370	1,845	<20	12	140	<200 ^c	5,600
	1/31/2024	36	21	0.80	12	69.80	<1.0	12	6.1	<10	4,000
OWS Effluent	11/3/2023	1,100	770	65	450	2,385	<1.0	14	97	37.2	6,700
GW Treated Effluent	11/1/2023	19	9.1	1.0	7.2	36.3	<1.0	0.58	9.3	3.8	160
	11/3/2023	42	28	2.1	18	90.1	<1.0	3.8	18	9.3	380
	11/9/2023	31	23.6	1.1	14.3	69.9	<1.39	4.5	15.5	7.69 ^d	<1080
	11/16/2023	59	38	2.4	25	124.4	<1.0	6.3	30	12	450
	11/22/2023	39	26	1.5	19	85.5	<1.0	3.4	19	7.9	360
	11/28/2023	58	29	1.3	20	108.3	<1.0	5.4	25	8.0	460
	12/14/2023	21	15	<1.0	11	47	<1.0	4.4	19	4.9	240
	1/3/2024	5.4	2.6	<1.0	2.5	10.5	<1.0	1.4	5.5	2.6	120

Notes are provided at the end of the table.

Table 5. Analytical Organic Chemistry Data for the Remediation System, Water
Page 2 of 2

Well Name	Date Sampled	Concentration ^a (µg/L)									
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB ^b	EDC	PAHs	TPH GRO
<i>NMWQCC Standard</i>		5	1,000	700	620	None	100	0.05	5	30	NA
GW Treated Effluent (cont.)	1/16/2024	8.2	5.9	<1.0	4.8	18.9	<1.0	1.8	10	2.6	170
	1/31/2024	3.0	1.9	<1.0	1.6	6.5	<1.0	1.2	5.0	<10	90

Bold indicates that value exceeds the New Mexico Water Quality Control Commission (NMWQCC) standard.

^a Analyzed using U.S. Environmental Protection Agency (EPA) method 8260B, unless otherwise noted.

^b Analyzed using EPA method 8011/504.1

^c Reporting limit is equal to or greater than the standard.

^d Reported as naphthalene only.

µg/L = Micrograms per liter

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

MTBE = Methyl tertiary-butyl ether

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

PAHs = Polycyclic aromatic hydrocarbons

TPH = Total petroleum hydrocarbons

GRO = Gasoline-range organics

Table 6. Analytical Inorganic Chemistry Data for the Remediation System
Page 1 of 2

Well Name	Date Sampled	Concentration ^a (mg/L)			
		Chloride	Nitrate (as N)	Sulfate	TDS ^b
<i>NMWQCC Standard</i>		250	10	600	1,000
GW Combined Influent	11/1/2023	87	2.3	51	550
	11/3/2023	84	2.1	46	490
	11/9/2023	82	2.3	47	NA
	11/16/2023	86	2.2	45	502
	11/22/2023	84	2.2	45	536
	11/28/2023	85	1.6	45	544
	12/14/2023	92	0.59	48	630
	1/3/2024	82	2.1	44	526
	1/16/2024	79	2.1	43	544
	1/31/2024	81	2.0	44	494
GW Treated Effluent	11/1/2023	88	2.4	51	536
	11/3/2023	84	2.1	46	315
	11/9/2023	82	2.3	47	NA
	11/16/2023	85	2.1	45	496
	11/22/2023	84	2.2	45	552
	11/28/2023	85	1.5	47	556
	12/14/2023	80	0.71	43	528
	1/3/2024	80	2.0	43	526

Notes are provided at the end of the table.

Table 6. Analytical Inorganic Chemistry Data for the Remediation System
Page 2 of 2

Well Name	Date Sampled	Concentration ^a (mg/L)			
		Chloride	Nitrate (as N)	Sulfate	TDS ^b
<i>NMWQCC Standard</i>		250	10	600	1,000
GW Treated Effluent (cont.)	1/16/2024	80	2.0	43	529
	1/31/2024	78	1.9	42	505

^a Analyzed using U.S. Environmental Protection Agency (EPA) method 300.0, unless otherwise noted.

^b Analyzed using SM 2540C Mod.

mg/L = Milligrams per liter

TDS = Total dissolved solids

NMWQCC = New Mexico Water Quality Control Commission

GW = Groundwater

NA = Not analyzed

Table 7. Utility Usage Summary

Electric (Xcel)				Natural Gas (NM Gas Co)			
Service Address: 1901 N. Prince Street Unit Container				Service Address: 1901 N Prince St			
Account #: 54-0013827214-6				Account #: 000237605-1412631-4			
Meter #: 160137895				Meter #: 1691600			
Read Date	Days Billed	kWh Used	Total Charges	Read Date	Days Billed	Therms	Total Charges
9/29/2023	START						
10/10/2023	11	19	\$8.95	10/6/2023	START		\$82.57
11/9/2023	29	4,490	\$469.04	11/6/2023	31	1,124	\$847.87
12/12/2023	34	21,806	\$1,463.34	12/7/2023	31	10,730	\$8,324.94
1/11/2024	30	20,034	\$1,358.28	1/6/2024	30	12,154	\$8,759.54
2/12/2024	31	25,099	\$1,734.42	2/6/2024	31	12,697	\$8,897.61
Daily average, startup		576	\$40.52			298	\$218.13
Daily average, 1Q		705	\$47.96			387	\$282.41

Table 8. Fluid Level Measurements
Page 1 of 13

Well Name	Screened Interval (feet bgs)	Top of Casing Elevation ^a (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (feet msl)
BW-1	295–345	4,279.88 ^c	4/13/2012	322.49	—	0.00	3,957.39
			7/27/2012	322.69	—	0.00	3,957.19
			9/24/2012	322.75	—	0.00	3,957.13
	4,279.55		4/29/2014	325.75	—	0.00	3,953.80
			5/8/2015	326.60	—	0.00	3,952.95
			9/10/2015	326.96	—	0.00	3,952.59
			3/29/2016	327.12	—	0.00	3,952.43
			7/26/2016	327.34	—	0.00	3,952.21
			7/10/2018 ^d	327.93	—	0.00	3,951.62
			2/14/2019 ^d	328.18	—	0.00	3,951.37
			3/6/2019	328.11	—	0.00	3,951.44
			5/2/2019 ^d	328.41	—	0.00	3,951.14
			5/20/2019	328.20	—	0.00	3,951.35
			8/13/2019	328.61	—	0.00	3,950.94
			9/16/2019	328.85	—	0.00	3,950.70
			6/8/2020	328.91	—	0.00	3,950.64
			9/9/2020	329.24	—	0.00	3,950.31
			12/27/2020	329.27	—	0.00	3,950.28
			3/19/2021	329.44	—	0.00	3,950.11
5/31/2022	Well plugged and abandoned						

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
Page 2 of 13

Well Name	Screened Interval (feet bgs)	Top of Casing Elevation ^a (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (feet msl)
BW-2	287-347	4,280.53 ^c	10/26/2009	323.12	—	0.00	3,957.41
			9/24/2012	323.21	—	0.00	3,957.32
		4,280.23	4/29/2014	326.14	—	0.00	3,954.09
			5/8/2015	327.00	—	0.00	3,953.23
			9/10/2015	327.33	—	0.00	3,952.90
			3/29/2016	327.52	—	0.00	3,952.71
			7/26/2016	327.78	—	0.00	3,952.45
			7/10/2018 ^d	328.38	—	0.00	3,951.85
			2/14/2019 ^d	328.60	—	0.00	3,951.63
			3/6/2019	328.53	—	0.00	3,951.70
			5/2/2019 ^d	328.97	—	0.00	3,951.26
			5/20/2019	328.61	—	0.00	3,951.62
			8/13/2019	329.03	—	0.00	3,951.20
			9/17/2019	328.98	—	0.00	3,951.25
			6/8/2020	329.34	—	0.00	3,950.89
			9/9/2020	329.62	—	0.00	3,950.61
			12/27/2020	329.75	—	0.00	3,950.48
			3/19/2021	329.90	—	0.00	3,950.33
5/31/2022	Well plugged and abandoned						

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
Page 3 of 13

Well Name	Screened Interval (feet bgs)	Top of Casing Elevation ^a (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (feet msl)
BW-3	287-347	4,280.17 ^c	10/26/2009	322.36	—	0.00	3,957.81
			9/24/2012	322.44	—	0.00	3,957.73
		4,279.91	4/29/2014	325.38	—	0.00	3,954.53
			5/8/2015	326.20	—	0.00	3,953.71
			9/10/2015	326.56	—	0.00	3,953.35
			3/29/2016	326.71	—	0.00	3,953.20
			7/26/2016	326.94	—	0.00	3,952.97
			7/10/2018 ^d	327.52	—	0.00	3,952.39
			2/14/2019 ^d	327.76	—	0.00	3,952.15
			3/6/2019	327.75	—	0.00	3,952.16
			5/2/2019 ^d	328.00	—	0.00	3,951.91
			5/20/2019	327.79	—	0.00	3,952.12
			8/13/2019	328.19	—	0.00	3,951.72
			9/16/2019	328.11	—	0.00	3,951.80
			6/8/2020	328.49	—	0.00	3,951.42
			9/9/2020	328.79	—	0.00	3,951.12
			12/27/2020	328.87	—	0.00	3,951.04
3/19/2021	329.00	—	0.00	3,950.91			
5/31/2022	Well plugged and abandoned						

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
Page 4 of 13

Well Name	Screened Interval (feet bgs)	Top of Casing Elevation ^a (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (feet msl)
BW-4	275–345	4,280.02	4/29/2014	326.04	—	0.00	3,953.98
			5/8/2015	326.80	—	0.00	3,953.22
			9/10/2015	327.23	—	0.00	3,952.79
			3/29/2016	327.27	—	0.00	3,952.75
			7/26/2016	327.52	—	0.00	3,952.50
			7/10/2018 ^d	327.95	—	0.00	3,952.07
			2/14/2019 ^d	328.29	—	0.00	3,951.73
			3/6/2019	328.20	—	0.00	3,951.82
			5/2/2019 ^d	328.59	—	0.00	3,951.43
			5/20/2019	328.36	—	0.00	3,951.66
			8/13/2019	328.74	—	0.00	3,951.28
			9/17/2019	328.59	—	0.00	3,951.43
			6/8/2020	329.04	—	0.00	3,950.98
			9/9/2020	329.33	—	0.00	3,950.69
			12/27/2020	329.42	—	0.00	3,950.60
			3/19/2021	329.50	—	0.00	3,950.52
12/13/2023	332.30	—	0.00	3,947.72			
12/14/2023	332.04	—	0.00	3,947.98			
BW-5	273.5–348.5	4,278.99	4/29/2014	325.53	—	0.00	3,953.46
			5/8/2015	326.27	—	0.00	3,952.72

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
Page 5 of 13

Well Name	Screened Interval (feet bgs)	Top of Casing Elevation ^a (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (feet msl)
BW-5 (cont.)	273.5–348.5	4,278.99	9/10/2015	326.73	—	0.00	3,952.26
			3/29/2016	326.87	—	0.00	3,952.12
			7/26/2016	326.98	—	0.00	3,952.01
			7/10/2018 ^d	327.53	—	0.00	3,951.46
			2/14/2019 ^d	329.46	NA	NA	NA
			3/6/2019	329.28	327.36	1.92	3,951.15
			5/2/2019 ^d	329.70	NA	NA	NA
			5/20/2019	329.35	327.58	1.77	3,950.97
			8/13/2019	328.89	328.20	0.69	3,950.62
			9/20/2019	328.94	328.18	0.76	3,950.62
			6/8/2020	329.65	329.07	0.58	3,949.78
			9/9/2020	329.34	328.92	0.42	3,949.97
			12/27/2020	329.20	329.06	0.14	3,949.90
			3/20/2021	329.34	329.19	0.15	3,949.76
			12/13/2023	332.29	329.19	0.00	3,946.70
12/14/2023	331.53	329.19	0.00	3,947.46			
BW-6	275–345	4,280.24	4/29/2014	326.46	—	0.00	3,953.78
			5/8/2015	327.27	—	0.00	3,952.97
			9/10/2015	327.60	—	0.00	3,952.64
			3/29/2016	327.70	—	0.00	3,952.54

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
Page 6 of 13

Well Name	Screened Interval (feet bgs)	Top of Casing Elevation ^a (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (feet msl)
BW-6 (cont.)	275-345	4,280.24	7/26/2016	328.08	—	0.00	3,952.16
			7/10/2018 ^d	328.72	—	0.00	3,951.52
			2/14/2019 ^d	328.91	—	0.00	3,951.33
			3/6/2019	328.82	—	0.00	3,951.42
			5/2/2019 ^d	329.23	—	0.00	3,951.01
			5/20/2019	328.91	—	0.00	3,951.33
			8/13/2019	329.35	—	0.00	3,950.89
			9/16/2019	329.18	—	0.00	3,951.06
			6/8/2020	329.70	—	0.00	3,950.54
			9/9/2020	330.00	—	0.00	3,950.24
			12/27/2020	330.07	—	0.00	3,950.17
			3/19/2021	330.24	—	0.00	3,950.00
12/13/2023	332.80	—	0.00	3,947.44			
BW-7	284-349	4,277.47	4/29/2014	324.63	—	0.00	3,952.84
			5/8/2015	325.42	—	0.00	3,952.05
			9/10/2015	325.84	—	0.00	3,951.63
			3/29/2016	326.01	—	0.00	3,951.46
			7/26/2016	326.14	—	0.00	3,951.33
			3/6/2019	326.88	—	0.00	3,950.59
			5/20/2019	327.11	—	0.00	3,950.36

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
Page 7 of 13

Well Name	Screened Interval (feet bgs)	Top of Casing Elevation ^a (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (feet msl)
BW-7 (cont.)	284–349	4,277.47	8/13/2019	327.47	—	0.00	3,950.00
			9/18/2019	327.39	—	0.00	3,950.08
			6/8/2020	327.83	—	0.00	3,949.64
			9/9/2020	328.13	—	0.00	3,949.34
			12/27/2020	328.22	—	0.00	3,949.25
			3/19/2021	328.38	—	0.00	3,949.09
			12/13/2023	331.06	—	0.00	3,946.41
BW-7R	286.8–357.1	4,277.44	8/13/2019	327.33	—	0.00	3,950.11
			9/21/2019	327.80	—	0.00	3,949.64
			6/8/2020	327.83	—	0.00	3,949.61
			9/9/2020	328.08	—	0.00	3,949.36
			12/27/2020	328.19	—	0.00	3,949.25
			3/19/2021	328.39	—	0.00	3,949.05
		4,277.58 ^e	12/13/2023 ^f	334.2	—	0.00	3,943.38
	12/14/2023 ^f	330.7	—	0.00	3,946.88		
BW-8	287–347	4,278.74	3/29/2016	326.61	—	0.00	3,952.13
			7/26/2016	326.75	—	0.00	3,951.99
			7/10/2018 ^d	327.33	—	0.00	3,951.41
			2/14/2019 ^d	327.73	—	0.00	3,951.01

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
Page 8 of 13

Well Name	Screened Interval (feet bgs)	Top of Casing Elevation ^a (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (feet msl)
BW-8 (cont.)	287-347	4,278.74	3/6/2019	327.55	—	0.00	3,951.19
			5/20/2019	327.72	—	0.00	3,951.02
			8/13/2019	328.10	—	0.00	3,950.64
			9/18/2019	327.99	—	0.00	3,950.75
			6/8/2020	328.34	—	0.00	3,950.40
			9/9/2020	328.73	—	0.00	3,950.01
			12/27/2020	328.89	—	0.00	3,949.85
			3/20/2021	328.93	—	0.00	3,949.81
		4,277.89 ^e	12/13/2023	330.68	—	0.00	3,947.21
		12/14/2023	330.47	—	0.00	3,947.42	
BW-9	287-347	4,278.31	3/29/2016	326.30	—	0.00	3,952.01
			7/26/2016	326.60	—	0.00	3,951.71
			3/6/2019	327.33	—	0.00	3,950.98
			5/2/2019 ^d	327.67	—	0.00	3,950.64
			5/20/2019	327.44	—	0.00	3,950.87
			8/13/2019	327.81	—	0.00	3,950.50
			9/17/2019	327.74	—	0.00	3,950.57
			6/8/2020	328.11	—	0.00	3,950.20
			9/9/2020	328.45	—	0.00	3,949.86
			12/27/2020	328.52	—	0.00	3,949.79

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
Page 9 of 13

Well Name	Screened Interval (feet bgs)	Top of Casing Elevation ^a (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (feet msl)
BW-9 (cont.)	287–347	4,278.31	3/19/2021	328.62	—	0.00	3,949.69
			12/13/2023	331.43	—	0.00	3,946.88
BW-10	306–346	4,275.11	3/29/2016	323.92	—	0.00	3,951.19
			7/26/2016	324.21	—	0.00	3,950.90
			3/6/2019	324.96	—	0.00	3,950.15
			5/20/2019	324.99	—	0.00	3,950.12
			8/13/2019	325.44	—	0.00	3,949.67
			9/17/2019	325.30	—	0.00	3,949.81
			6/8/2020	325.77	—	0.00	3,949.34
			9/9/2020	326.15	—	0.00	3,948.96
			12/27/2020	326.23	—	0.00	3,948.88
			3/19/2021	326.35	—	0.00	3,948.76
			12/13/2023	329.14	—	0.00	3,945.97
MW-11	285.5–355.5	4,274.64	8/13/2019	325.81	—	0.00	3,948.83
			9/18/2019	325.85	—	0.00	3,948.79
			6/8/2020	326.24	—	0.00	3,948.40
			9/9/2020	326.68	—	0.00	3,947.96
			12/27/2020	326.70	—	0.00	3,947.94
			3/19/2021	326.88	—	0.00	3,947.76

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
Page 10 of 13

Well Name	Screened Interval (feet bgs)	Top of Casing Elevation ^a (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (feet msl)
MW-11 (cont.)	285.5–355.5	4,273.83 ^e	12/13/2023 ^f	336.1	—	0.00	3,937.73
			12/14/2023 ^f	328.5	—	0.00	3,945.33
MW-12	286.5–356.7	4,277.60	8/13/2019	328.16	—	0.00	3,949.44
			9/20/2019	328.14	—	0.00	3,949.46
			6/8/2020	328.60	—	0.00	3,949.00
			9/9/2020	328.93	—	0.00	3,948.67
			12/27/2020	329.05	—	0.00	3,948.55
			3/20/2021	329.22	—	0.00	3,948.38
		4,277.32 ^e	12/13/2023 ^f	334.8	—	0.00	3,942.52
		12/14/2023 ^f	331.2	—	0.00	3,946.12	
MW-13	287–357	4,275.82	8/13/2019	326.33	—	0.00	3,949.49
			9/21/2019	326.44	—	0.00	3,949.38
			6/8/2020	326.77	—	0.00	3,949.05
			9/9/2020	327.08	—	0.00	3,948.74
			12/27/2020	327.21	—	0.00	3,948.61
			3/19/2021	327.38	—	0.00	3,948.44
		4,275.35 ^e	12/13/2023 ^f	330.3	—	0.00	3,945.05
		12/14/2023 ^f	329.2	—	0.00	3,946.15	
MW-14	280.5–350.7	4,265.25	9/19/2019	318.03	—	0.00	3,947.22
			6/8/2020	318.52	—	0.00	3,946.73

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
Page 11 of 13

Well Name	Screened Interval (feet bgs)	Top of Casing Elevation ^a (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (feet msl)
MW-14 (cont.)	280.5–350.7	4,265.25	9/9/2020	319.02	—	0.00	3,946.23
			12/27/2020	319.21	—	0.00	3,946.04
			3/19/2021	319.34	—	0.00	3,945.91
			12/13/2023	321.56	—	0.00	3,943.69
			12/14/2023	321.70	—	0.00	3,943.55
MW-15	282.0–352.3	4,268.58	6/8/2020	322.86	—	0.00	3,945.72
			9/9/2020	323.38	—	0.00	3,945.20
			12/27/2020	323.63	—	0.00	3,944.95
			3/19/2021	323.76	—	0.00	3,944.82
			12/13/2023	325.97	—	0.00	3,942.61
			12/14/2023	326.02	—	0.00	3,942.56
MW-16	289.0–359.3	4,276.23	6/8/2020	328.75	—	0.00	3,947.48
			9/9/2020	329.14	—	0.00	3,947.09
			12/27/2020	329.27	—	0.00	3,946.96
			3/19/2021	329.44	—	0.00	3,946.79
		4,276.04 ^e	12/13/2023 ^f	335.1	—	0.00	3,940.94
			12/14/2023 ^f	331.6	—	0.00	3,944.44
MW-17	288.4–358.7	4,277.42	6/8/2020	329.19	—	0.00	3,948.23
			9/9/2020	329.58	—	0.00	3,947.84
			12/27/2020	329.78	—	0.00	3,947.64

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
Page 12 of 13

Well Name	Screened Interval (feet bgs)	Top of Casing Elevation ^a (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (feet msl)
MW-17 (cont.)	288.4–358.7	4,277.42	3/19/2021	329.89	—	0.00	3,947.53
			12/13/2023	332.38	—	0.00	3,945.04
			12/14/2023	332.35	—	0.00	3,945.07
RW-1	264.9–355.3	4,280.00	8/13/2019	328.89	—	0.00	3,951.11
			9/19/2019	328.84	—	0.00	3,951.16
			6/8/2020	329.22	—	0.00	3,950.78
			9/9/2020	329.47	—	0.00	3,950.53
			12/27/2020	329.63	—	0.00	3,950.37
			3/20/2021	329.74	—	0.00	3,950.26
		4,279.56 ^e	12/13/2023 ^f	343.4	—	0.00	3,936.16
		12/14/2023 ^f	331.7	—	0.00	3,947.86	
RW-2	289.8–360.1	4,279.70	8/13/2019	329.00	—	0.00	3,950.70
			9/18/2019	328.97	—	0.00	3,950.73
			6/8/2020	329.28	—	0.00	3,950.42
			9/9/2020	329.58	—	0.00	3,950.12
			12/27/2020	329.77	—	0.00	3,949.93
			3/19/2021	330.07	329.72	0.35	3,949.89
		4,278.97 ^e	12/13/2023 ^f	332.9	—	0.00	3,946.07
		12/14/2023 ^f	331.8	—	0.00	3,947.17	

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
Page 13 of 13

Well Name	Screened Interval (feet bgs)	Top of Casing Elevation ^a (feet msl)	Date Measured	Depth to Water (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation ^b (feet msl)
RW-3	289.3–359.5	4,278.78	9/20/2019	327.95	—	0.00	3,950.83
			6/8/2020	328.25	—	0.00	3,950.53
			9/9/2020	328.56	—	0.00	3,950.22
			12/27/2020	328.68	—	0.00	3,950.10
			3/20/2021	328.83	—	0.00	3,949.95
		4,278.53 ^e	12/13/2023 ^f	334.3	—	0.00	3,944.23
		12/14/2023 ^f	330.9	—	0.00	3,947.63	
RW-4	291.2–361.5	4,278.84	9/19/2019	328.48	—	0.00	3,950.36
			6/8/2020	328.85	—	0.00	3,949.99
			9/9/2020	329.18	—	0.00	3,949.66
			12/27/2020	329.27	—	0.00	3,949.57
			3/19/2021	329.38	—	0.00	3,949.46
		4,278.10 ^e	12/13/2023 ^f	341.6	—	0.00	3,936.50
		12/14/2023 ^f	331.2	—	0.00	3,946.90	

Note: Pre-2017 data reported by Brown Environmental, Inc. (BEI, 2016).

^a Surveyed by Lydick Engineers & Surveyors, October 2019 or June 2020. For consistency, historical groundwater elevations reference current survey data.

^b Groundwater elevation (GWE) corrected for LNAPL thickness using the following equation: $GWE = \text{Top of Casing Elevation} - (\text{DTW} - [\text{LNAPL thickness} \times 0.75])$.

^c Well survey data reported by BEI following well installation.

^d Data reported by Brown Environmental, Inc. (BEI, 2019).

^e Surveyed by Lydick Engineers & Surveyors, April 2022, following remediation system installation.

^f Transducer data used to calculate depth to water and groundwater elevation.

bgs = Below ground surface

btoc = Below top of casing

msl = Above mean sea level

LNAPL = Light nonaqueous-phase liquid

Table 9. Groundwater Analytical Organic Chemistry Data
Page 1 of 12

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>
BW-1	4/13/2012	240	61	4.5	20	325.5	1.6	<1.0 ^b	3.5	<10
	9/25/2012	290	29	4.9	34	357.9	<1.0	<1.0 ^b	5.2	<10
	9/25/2012 ^c	200	46	7.8	45	298.8	<1.0	<1.0 ^b	6.2	<10
	4/30/2014	50	6.0	<1.0	1.6	57.6	<1.0	<1.0 ^b	1.4	<10
	5/7/2015	130	5.5	<1.0	5.6	141.1	1.1	<1.0 ^b	2.6	<10
	9/11/2015	13	55	<1.0	<1.5	68	<1.0	<1.0 ^b	<1.0	<10
	3/30/2016	40	130	<1.0	<1.5	170	<1.0	<1.0 ^b	1.3	<10
	7/27/2016	18	15	<1.0	<1.5	33	1.2	<1.0 ^b	1.9	<10
	7/10/2018	<1.0	2.9	<1.0	<1.5	2.9	<1.0	<1.0 ^b	<1.0	<10
	7/10/2018 ^c	<1.0	2.9	<1.0	<1.5	2.9	<1.0	<1.0 ^b	<1.0	<10
	2/15/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	2/15/2019 ^c	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	5/3/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 ^b	<1.0	<10
	5/3/2019 ^c	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 ^b	<1.0	<10
	5/22/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
9/16/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10	
6/9/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10	
5/31/2022	Well plugged and abandoned									

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
Page 2 of 12

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		5	1,000	700	620	None	100	0.05	5	30
BW-2	9/25/2012	21	15	<1.0	6.2	42.2	<1.0	<1.0 ^b	1.0	<10
	4/29/2014	<1.0	5.6	<1.0	<1.5	5.6	<1.0	<1.0 ^b	<1.0	<10
	5/7/2015	<1.0	18	<1.0	<1.5	18	<1.0	<1.0 ^b	<1.0	<10
	9/10/2015	7.2	21	<1.0	<1.5	28.2	<1.0	<1.0 ^b	<1.0	<10
	3/29/2016	<1.0	97	<1.0	<1.5	97	<1.0	<1.0 ^b	<1.0	<10
	7/26/2016	<1.0	2.5	<1.0	<1.5	2.5	<1.0	<1.0 ^b	<1.0	<10
	7/10/2018	<1.0	1.7	<1.0	<1.5	1.7	<1.0	<1.0 ^b	<1.0	<10
	2/14/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 ^d	<1.0	<10
	5/2/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 ^b	<1.0	<10
	5/21/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 ^d	<1.0	<10
	9/17/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0092 ^d	<1.0	<10
6/9/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10	
5/31/2022	Well plugged and abandoned									
BW-3	9/25/2012	1.4	56	<1.0	6.1	63.5	<1.0	<1.0 ^b	<1.0	<10
	4/29/2014	<1.0	14	<1.0	<1.5	14	<1.0	<1.0 ^b	<1.0	<10
	5/7/2015	2.6	5.0	<1.0	3.5	11.1	<1.0	<1.0 ^b	<1.0	<10
	9/10/2015	<1.0	46	<1.0	<1.5	46	<1.0	<1.0 ^b	<1.0	<10
	3/29/2016	<1.0	180	<1.0	2.2	182.2	<1.0	<1.0 ^b	<1.0	<10
	7/26/2016	<1.0	4.0	<1.0	<1.5	4.0	<1.0	<1.0 ^b	<1.0	<10

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
Page 3 of 12

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>
BW-3 (cont.)	7/10/2018	<1.0	4.3	<1.0	<1.5	4.3	<1.0	<1.0 ^b	<1.0	<10
	2/15/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	5/3/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 ^b	<1.0	<10
	5/21/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	9/16/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	6/9/2020	<1.0	1.2	<1.0	<1.5	1.2	<1.0	<0.0094 ^d	<1.0	<10
	5/31/2022	Well plugged and abandoned								
BW-4	4/30/2014	<1.0	11	<1.0	<1.5	11	<1.0	<1.0 ^b	1.8	<10
	5/7/2015	1,100	1,100	61	600	2,861	<1.0	<1.0 ^b	32	<10
	9/10/2015	1.9	43	<1.0	<1.5	44.9	<1.0	<1.0 ^b	<1.0	<10
	3/30/2016	200	200	5.1	33	438.1	<1.0	<1.0 ^b	6.9	<10
	7/27/2016	140	85	1.2	15	241.2	<1.0	<1.0 ^b	6.9	<10
	5/22/2019	1.8	<1.0	<1.0	<1.5	1.8	<1.0	<0.0094 ^d	2.1	<10
	9/17/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0092 ^d	<1.0	<10
	6/10/2020	2.2	<1.0	<1.0	<1.5	2.2	<1.0	<0.0093 ^d	5.0	<10
	9/11/2020	1.6	<1.0	<1.0	<1.5	1.6	<1.0	<0.0094 ^d	3.3	<10
	12/28/2020 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 ^d	1.1	<10
	3/20/2021 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 ^d	1.6	<10
	12/14/2023 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
Page 4 of 12

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		5	1,000	700	620	None	100	0.05	5	30
BW-5	4/29/2014	2,100	1,800	200	990	5,090	<1.0	29	100	59.9
	5/8/2015	3,700	2,800	300	1,700	8,500	<5.0	51	180	83
	9/11/2015	2,000	1,400	220	900	4,520	<5.0	18	100	80
	9/11/2015 ^c	1,900	1,300	230	960	4,390	<5.0	20	100	64
	3/30/2016	5,000	4,200	500	2,000	11,700	<5.0	54	230	<500 ^b
	7/28/2016	2,000	2,400	270	1,300	5,970	<10	29	110	141
	5/20/2019– 3/20/2021	Well not sampled due to presence of LNAPL								
	12/14/2023 ^e	<2.0	2.5	<2.0	76	78.5	<2.0	0.29 ^d	4.4	<20
BW-6	4/29/2014	<1.0	10	<1.0	<1.5	10	<1.0	<1.0 ^b	<1.0	<10
	5/7/2015	<1.0	8.4	<1.0	<1.5	8.4	<1.0	<1.0 ^b	<1.0	<10
	9/10/2015	<1.0	36	<1.0	<1.5	36	<1.0	<1.0 ^b	<1.0	<10
	3/29/2016	<1.0	130	<1.0	<1.5	130	<1.0	<1.0 ^b	<1.0	<10
	7/26/2016	<1.0	3.8	<1.0	<1.5	3.8	<1.0	<1.0 ^b	<1.0	<10
	7/11/2018	<1.0	10	<1.0	<1.5	10	<1.0	<1.0 ^b	<1.0	<10
	2/15/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 ^d	<1.0	<10
	5/2/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 ^b	<1.0	<10
	5/21/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
Page 5 of 12

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>
BW-6 (cont.)	9/16/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	6/9/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 ^d	<1.0	<10
BW-7	4/30/2014	990	3.4	67	260	1,320	<1.0	2.6	75	21.1
	4/30/2014 ^c	1,100	4.4	74	300	1,478	<1.0	2.9	75	20.1
	5/8/2015	3,200	1,200	210	920	5,530	<1.0	9.6	230	45.5
	9/11/2015	9,400	5,000	750	2,600	17,750	<1.0	36	590	204
	3/31/2016	8,800	2,900	650	2,100	14,450	<1.0	<50 ^b	580	120
	7/28/2016	8,000	1,100	630	1,200	10,930	<50	<50 ^b	500	120
	5/22/2019	1,400	140	100	230	1,870	<5.0	0.24	180	22
	9/18/2019	590	5.3	56	88	739.3	<2.0	0.31 ^d	120	15
	6/12/2020	240	<2.0	<2.0	<3.0	240	<2.0	0.86 ^d	65	<20
	9/14/2020	48	<1.0	1.4	<1.5	49.4	<1.0	0.86 ^d	78	<10
	12/28/2020 ^e	790	<2.0	<2.0	3.1	793.1	<2.0	0.015 ^d	370	<20
	3/20/2021 ^e	1,000	<2.0	13	3.3	1,016.3	<2.0	0.0094 ^d	110	<20
	12/14/2023 ^e	<5.0 ^b	<5.0	<5.0	<7.5	<22.5	<5.0	0.12 ^d	43	<50 ^b
BW-7R	9/21/2019	51	9.4	1.5	9.2	71.1	<1.0	0.096 ^d	22	<10
	6/11/2020	160	2.5	7.1	13	182.6	<1.0	0.36 ^d	50	4.1
	9/12/2020	130	<2.0	4.3	5.6	139.9	<2.0	0.17 ^d	60	<20
	12/28/2020	130	1.5	3.2	2.1	136.8	<1.0	0.29 ^d	71	2.9

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
Page 6 of 12

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>
BW-7R (cont.)	12/28/2020 ^e	610	3.6	11	2.5	627.1	<1.0	0.044 ^d	88	6.7
	3/20/2021 ^e	920	2.2	43	20	985.2	<2.0	0.012 ^d	120	11
	12/13/2023 ^f	1,700	460	54	470	2,684	<2.0	7.3 ^d	210	30
BW-8	3/31/2016	3,900	5,400	440	2,400	12,140	<1.0	95	210	<500 ^b
	3/31/2016 ^c	4,300	5,900	500	2,700	13,400	<1.0	110	230	100
	7/28/2016	3,600	4,800	380	2,500	11,280	<50	100	180	120
	7/28/2016 ^c	3,400	4,700	380	2,500	10,980	<50	100	180	120
	5/30/2019	4,600	4,200	390	1,200	10,390	<5.0	9.1 ^d	290	67
	9/18/2019	5,000	4,300	420	1,400	11,120	<10	14 ^d	270	94
	6/13/2020	7,000	7,900	700	2,500	18,100	<20	0.72 ^d	190	180
	9/15/2020	4,800	7,500	590	2,600	15,490	<50	0.092 ^d	95	130
	12/29/2020	4,100	5,600	450	1,800	11,950	<5.0	0.11 ^d	90	146
	12/29/2020 ^e	15,000	24,000	1,400	7,400	47,800	<20	0.20 ^d	77	413
	3/21/2021 ^e	14,000	23,000	1,600	6,600	45,200	<50	0.86 ^d	94	300
12/14/2023 ^e	1,500	1,300	170	910	3,880	<50	36 ^d	98	<500 ^b	
BW-8 (Deep HS)	6/13/2020	7,000	8,400	570	2,400	18,370	<10	0.26 ^d	<10 ^b	120
	9/15/2020	14,000	28,000	1,600	10,000	53,600	<50	0.70 ^d	<50 ^b	370

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
Page 7 of 12

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		5	1,000	700	620	None	100	0.05	5	30
BW-8 (Shallow HS)	6/13/2020	6,300	8,500	670	2,600	18,070	<20	0.25 ^d	<20 ^b	130
	9/15/2020	12,000	24,000	1,500	9,600	47,100	<50	0.88 ^d	63	370
	12/29/2020	17,000	31,000	2,000	11,000	61,000	<20	0.19 ^d	76	570
BW-9	3/30/2016	<1.0	190	<1.0	<1.5	190	<1.0	<1.0 ^b	<1.0	<10
	7/27/2016	<1.0	6.1	<1.0	<1.5	6.1	<1.0	<1.0 ^b	<1.0	<10
	5/21/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	9/17/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	6/9/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	9/11/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	12/27/2020 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
3/20/2021 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10	
BW-10	3/29/2016	<1.0	280	<1.0	<1.5	280	<1.0	<1.0 ^b	<1.0	<10
	7/27/2016	<1.0	33	<1.0	<1.5	33	<1.0	<1.0 ^b	<1.0	<10
	5/21/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	9/17/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	6/10/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	9/11/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	12/27/2020 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	3/20/2021 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
Page 8 of 12

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>
MW-11	9/18/2019	3,300	5.0	280	1,100	4,685	<5.0	5.0 ^d	130	40
	6/13/2020	3,400	8.9	300	620	4,328.9	<10	2.9 ^d	150	39
	9/15/2020	3,300	14	300	520	4,134	<20	1.2 ^d	130	40
	12/29/2020	3,400	5.1	280	450	4,135.1	<1.0	0.93 ^d	120	84
	12/29/2020 ^e	4,400	2.8	310	46	4,758.8	<1.0	0.30 ^d	180	87
	3/20/2021 ^e	3,800	<20	250	38	4,088	<20	0.14 ^d	200	42
	12/12/2023 ^f	3,200	140	150	910	4,400	<20	1.2 ^d	220	51
MW-11 (Deep HS)	6/13/2020	4,200	<10	370	150	4,720	<10	2.1 ^d	190	50
	9/15/2020	3,100	<20	170	83	3,353	<20	0.71 ^d	150	36
MW-11 (Shallow HS)	6/13/2020	3,900	<10	250	86	4,236	<10	1.4 ^d	190	28
	9/15/2020	3,300	<20	230	100	3,630	<20	0.74 ^d	140	34
	12/29/2020	3,300	2.9	150	24	3,476.9	<1.0	0.11 ^d	160	45.1
MW-12	9/20/2019	1,400	27	9.4	200	1,636.4	<1.0	0.78 ^d	72	6.0
	6/12/2020	1,400	<10	10	130	1,540	<10	0.50 ^d	85	<100 ^b
	9/15/2020	930	<5.0	<5.0	78	1,008	<5.0	0.38 ^d	68	<50 ^b
	12/28/2020 ^e	460	<2.0	<2.0	11	471	<2.0	0.21 ^d	68	<20
	3/21/2021 ^e	98	<5.0	<5.0	<7.5	98	<5.0	0.11 ^d	44	<50 ^b
	12/13/2023 ^f	540	<10	<10	42	582	<10	1.2 ^d	120	<100 ^b

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
Page 9 of 12

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>
MW-13	9/21/2019	97	6.4	9.2	29	141.6	<1.0	0.037 ^d	5.1	<10
	6/12/2020	79	<2.0	4.4	13	96.4	<2.0	0.035 ^d	6.6	<20
	9/12/2020	94	<1.0	7.5	23	124.5	<1.0	0.039 ^d	11	<10
	12/28/2020 ^e	22	<1.0	2.6	2.5	27.1	<1.0	0.079 ^d	26	<10
	3/20/2021 ^e	64	<1.0	2.8	1.8	68.6	<1.0	0.090 ^d	26	2.0
	12/12/2023 ^f	110	<1.0	1.6	39	150.6	<1.0	0.10 ^d	76	6.0
MW-14	9/19/2019	4.0	15	2.8	15	36.8	<1.0	0.050 ^d	<1.0	<10
	6/10/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	9/9/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0096 ^d	<1.0	<10
	12/27/2020 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	3/20/2021 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	12/14/2023 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
MW-14 (Deep HS)	6/10/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	9/9/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
MW-14 (Shallow HS)	6/10/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	9/9/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
MW-15	6/11/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	9/10/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 ^d	<1.0	<10
	12/27/2020 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0096 ^d	<1.0	<10

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
Page 10 of 12

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>
MW-15 (cont.)	3/20/2021 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	12/14/2023 ^e	11	<1.0	<1.0	<1.5	11	<1.0	0.028 ^d	<1.0	<10
MW-16	6/11/2020	520	8.7	42	140	710.7	<1.0	0.82 ^d	35	3.2
	9/11/2020	920	11	34	300	1,265	<2.0	0.66 ^d	55	7.5
	12/28/2020	1,500	7.3	49	380	1,936.3	<1.0	0.52 ^d	70	18.1
	12/28/2020 ^e	55	<1.0	2.7	29	86.7	<1.0	0.25 ^d	30	<10
	3/20/2021 ^e	10	<1.0	<1.0	2.6	12.6	<1.0	0.30 ^d	27	<10
	12/12/2023 ^e	1,500	<1.0	<1.0	39	1,539	<1.0	0.74 ^d	77	7.7
MW-17	6/11/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	9/10/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 ^d	<1.0	<10
	12/27/2020 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	3/20/2021 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	12/14/2023 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
RW-1	9/19/2019	720	800	47	430	1,997	<1.0	6.4 ^d	36	10
	6/13/2020	340	39	18	51	448	<5.0	0.22 ^d	<5.0 ^b	10
	9/15/2020	650	230	49	120	1,049	<2.0	1.7 ^d	22	14
	12/28/2020 ^e	5,500	3,300	260	2,000	11,060	<1.0	5.1 ^d	31	161
	3/21/2021 ^e	3,000	750	230	590	4,570	<2.0	7.5 ^d	57	123
	12/13/2023 ^f	<2.0	<2.0	<2.0	6.0	6.0	<2.0	1.1 ^d	48	<20

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
Page 11 of 12

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>
RW-2	9/18/2019	3,500	3,300	210	1,600	8,610	<10	74^d	220	58
	6/14/2020	1,800	1,100	130	470	3,500	<20	4.8^d	<20 ^b	<200 ^b
	9/15/2020	2,500	2,600	180	800	6,080	<10	2.6^d	25	41
	12/27/2020 ^e	7,400	6,200	380	1,800	15,780	<1.0	31^d	64	133
	3/19/2021 ^e	Well not sampled due to presence of LNAPL								
	12/13/2023 ^f	41	73	<20	120	234	<20	12^d	20	<200 ^b
RW-3	9/20/2019	4,100	5,100	310	2,300	11,810	<10	25^d	130	58
	6/13/2020	3,800	2,300	290	2,100	8,490	<20	49^d	180	76
	9/16/2020	4,000	2,900	280	1,900	9,080	<20	33^d	190	68
	12/28/2020	3,000	2,500	200	1,200	6,900	<1.0	14^d	94	90
	12/28/2020 ^e	2,000	530	89	690	3,309	<2.0	20^d	84	24
	3/21/2021 ^e	2,900	980	160	930	4,970	<20	22^d	110	44
	12/13/2023 ^f	320	330	<20	250	900	<20	8.0^d	83	<200 ^b
RW-4	9/19/2019	690	730	47	340	1,807	<1.0	5.2^d	28	5.4
	6/12/2020	1,500	410	110	360	2,380	<5.0	13^d	100	20
	9/12/2020	1,400	600	92	300	2,392	<10	9.7^d	91	<100 ^b
	12/28/2020	1,900	1,400	160	650	4,110	<10	8.8^d	33	27
	12/28/2020 ^e	3,400	1,100	220	760	5,480	<10	10^d	56	35

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
Page 12 of 12

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>
RW-4 (cont.)	3/20/2021 ^e	3,000	1,100	200	640	4,940	<5.0	7.4 ^d	41	35
	12/13/2023 ^f	2,000	2,800	160	1,400	6,360	<20	47 ^d	230	58

Bold indicates that value equals or exceeds the New Mexico Water Quality Control Commission (NMWQCC) standard.

Pre-May 2, 2019 data reported by Brown Environmental, Inc. (BEI, 2016).

^a Analyzed using U.S. Environmental Protection Agency (EPA) method 8260B, unless otherwise noted.

^b Reporting limit is equal to or greater than the standard.

^c Duplicate sample.

^d Samples analyzed using EPA method 504.1.

^e Sample collected using HydraSleeve sampling device.

^f Sample collected from wellhead sample port using the installed remediation pump.

µg/L = Micrograms per liter

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

MTBE = Methyl tertiary-butyl ether

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

LNAPL = Light nonaqueous-phase liquid

HS = HydraSleeve

Table 10. LNAPL Recovery from Site Wells

Date Bailed	Depth to Water ^a (feet btoc)	Depth to LNAPL (feet btoc)	Initial LNAPL Thickness (feet)	Depth to Water ^b (feet btoc)	Total Volume of Fluids Removed (gallons)	Volume of LNAPL Removed (gallons)	Cumulative Volume of LNAPL Removed (gallons)	Final Thickness of LNAPL (feet)
<i>Cumulative volume of LNAPL recovered by DBS&A is approximately 3.8 gallons, as tabulated below.</i>								
<i>BW-5</i>								
5/23/2019	329.35	327.58	1.77	328.02	7.16	1.95	1.95	0.26
9/20/2019	328.94	328.18	0.76	328.37	5.35	0.95	2.90	0.01
6/8/2020	329.65	329.07	0.58	329.22	4.27	0.46	3.36	0.00
9/16/2020	329.34	328.92	0.42	329.03	4.05	0.26	3.62	0.00
12/29/2020	329.20	329.06	0.14	329.10	4.11	0.07	3.69	0.01
3/20/2021	329.34	329.19	0.15	329.23	1.20	0.05	3.74	0.00
<i>RW-2</i>								
3/21/2021	330.07	329.72	0.35	329.81	1.11	0.07	0.07	0.01

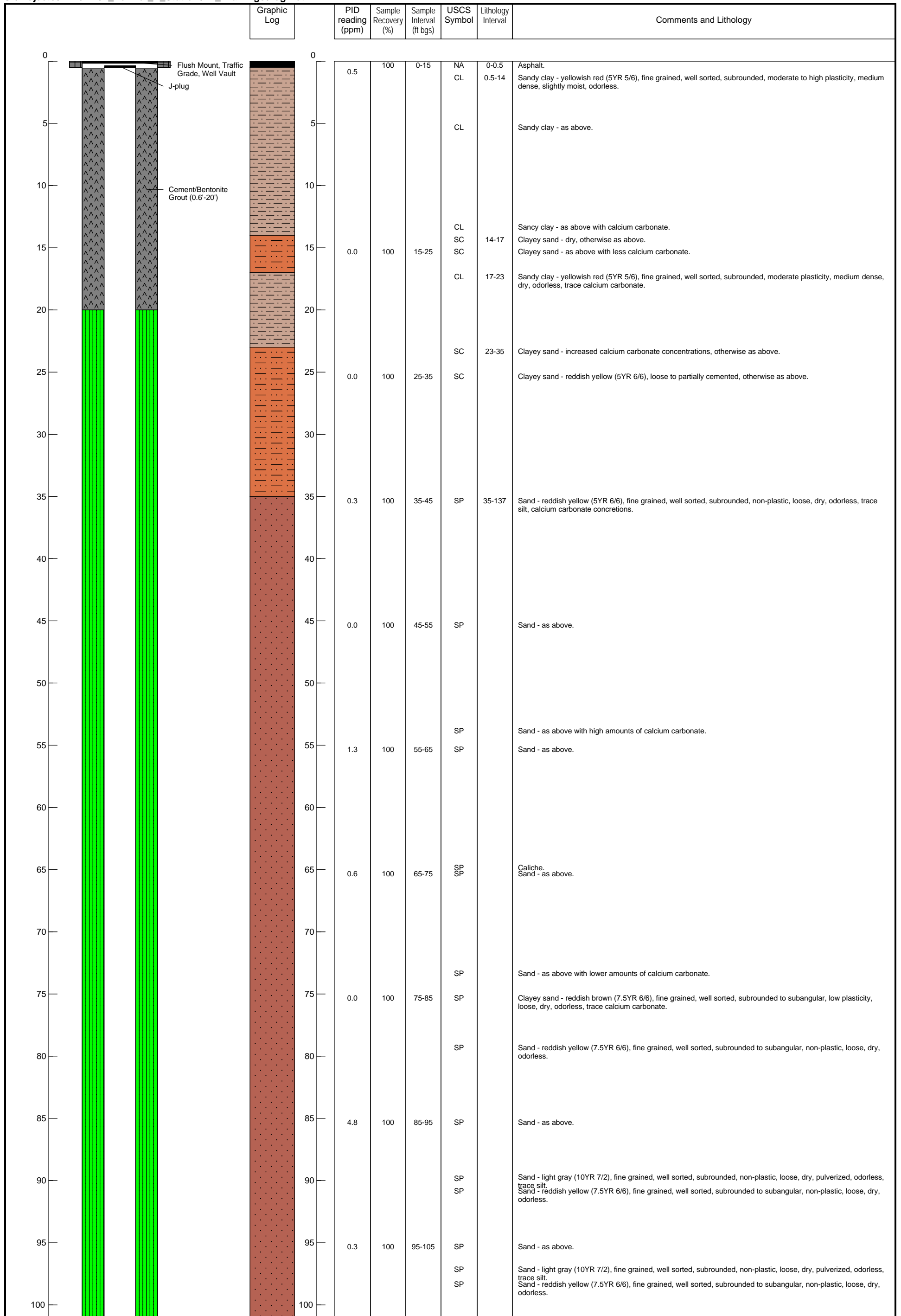
^a Depth to water (DTW) before correction for light nonaqueous-phase liquid (LNAPL) thickness.

^b DTW corrected for LNAPL thickness using the following equation: $DTW = DTW - (LNAPL\ thickness \times 0.75)$.

btoc = Below top of casing

Appendix A

Well Boring Logs



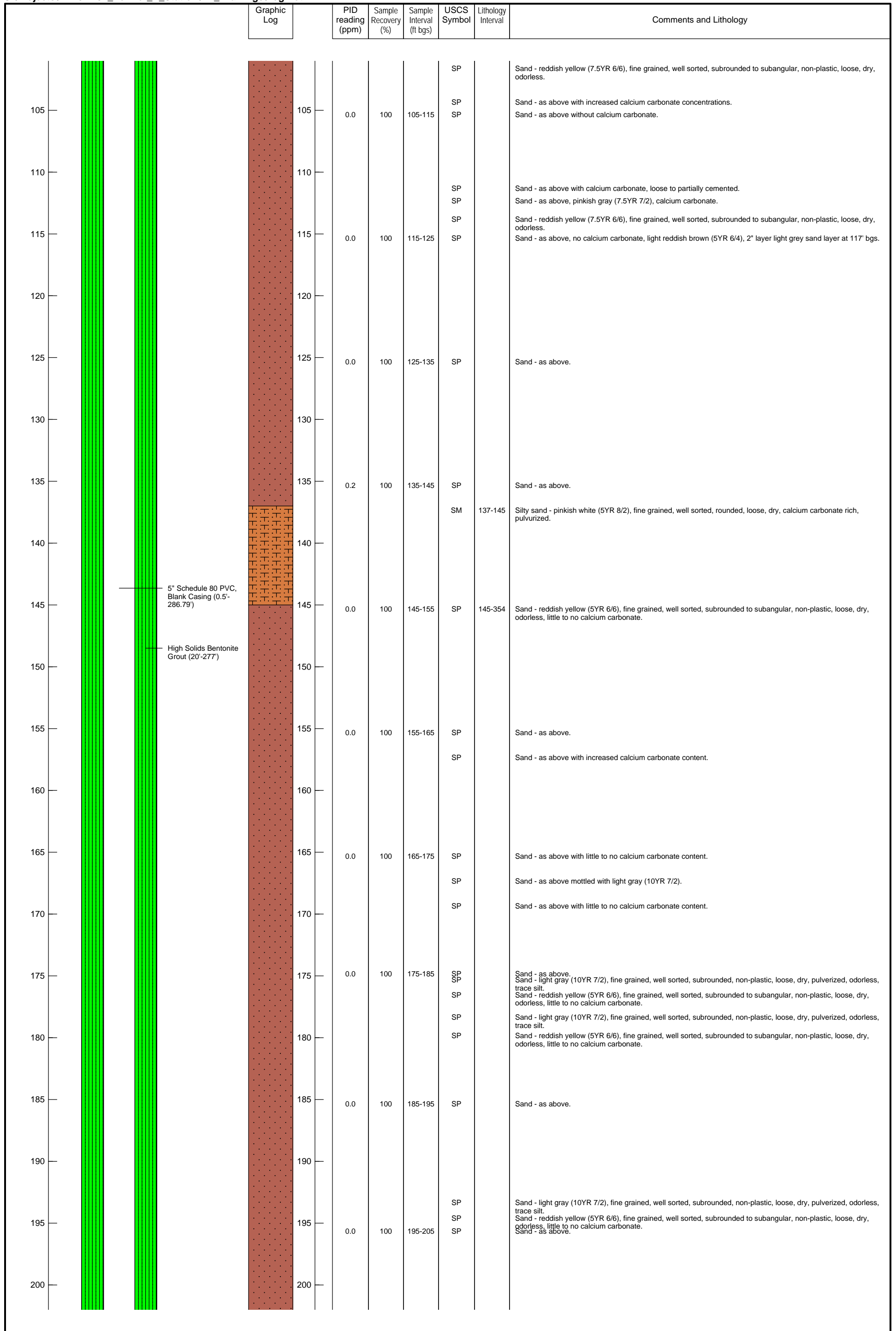
Geologist: H. Barnes
 Driller: Yellow Jacket Drilling
 Date completed: 8/4/19

Drilling method: Sonic
 Borehole diameter: 9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 124529 Elevation: 4277.44
 Easting: 884291.12

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 BW-7R**





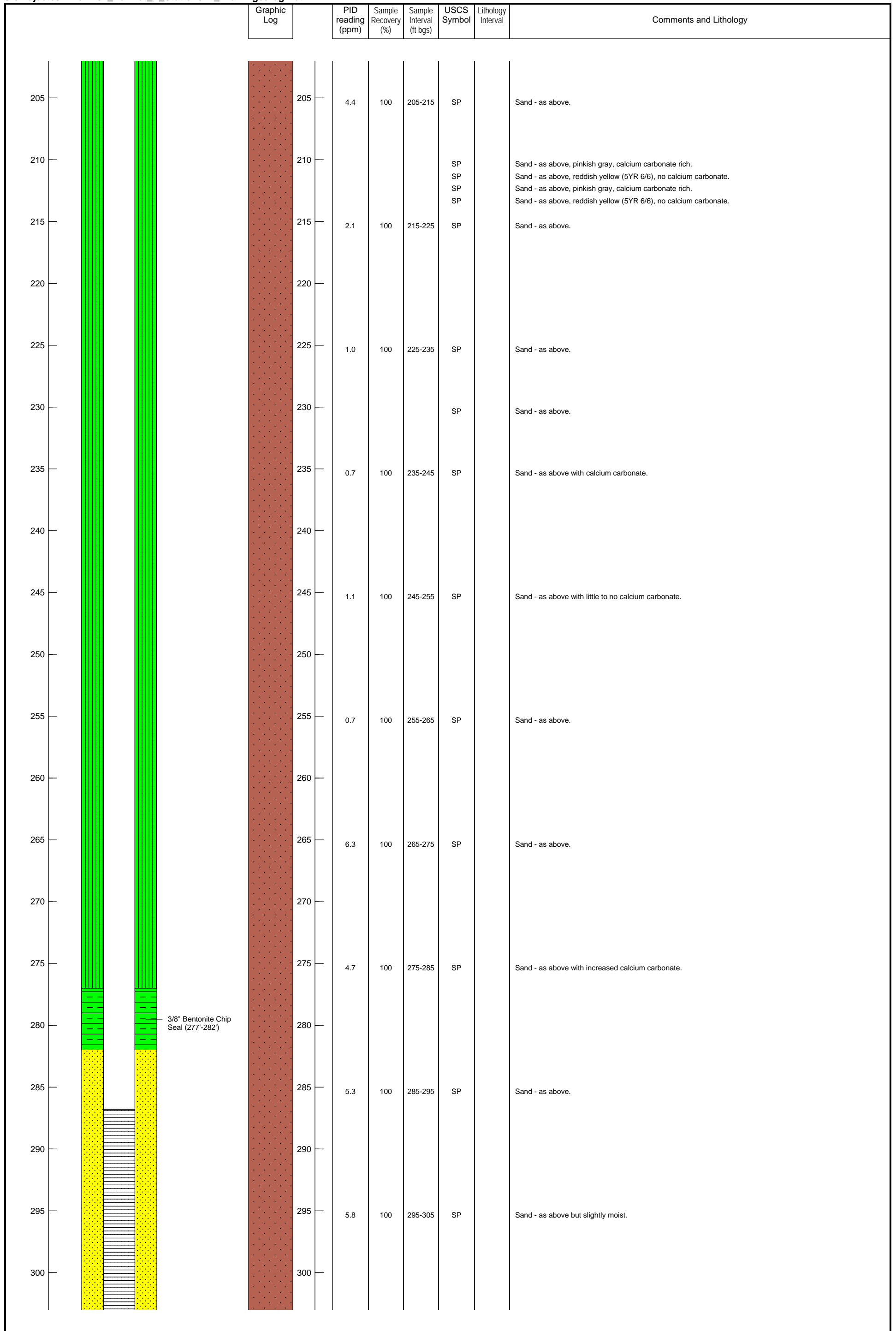
Geologist: H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 7/20/19
 Well completion date: 8/4/19

Drilling method: Sonic
 Borehole diameter: 9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1245210.02 Elevation: 4277.44
 Easting: 884291.06

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 BW-7R**





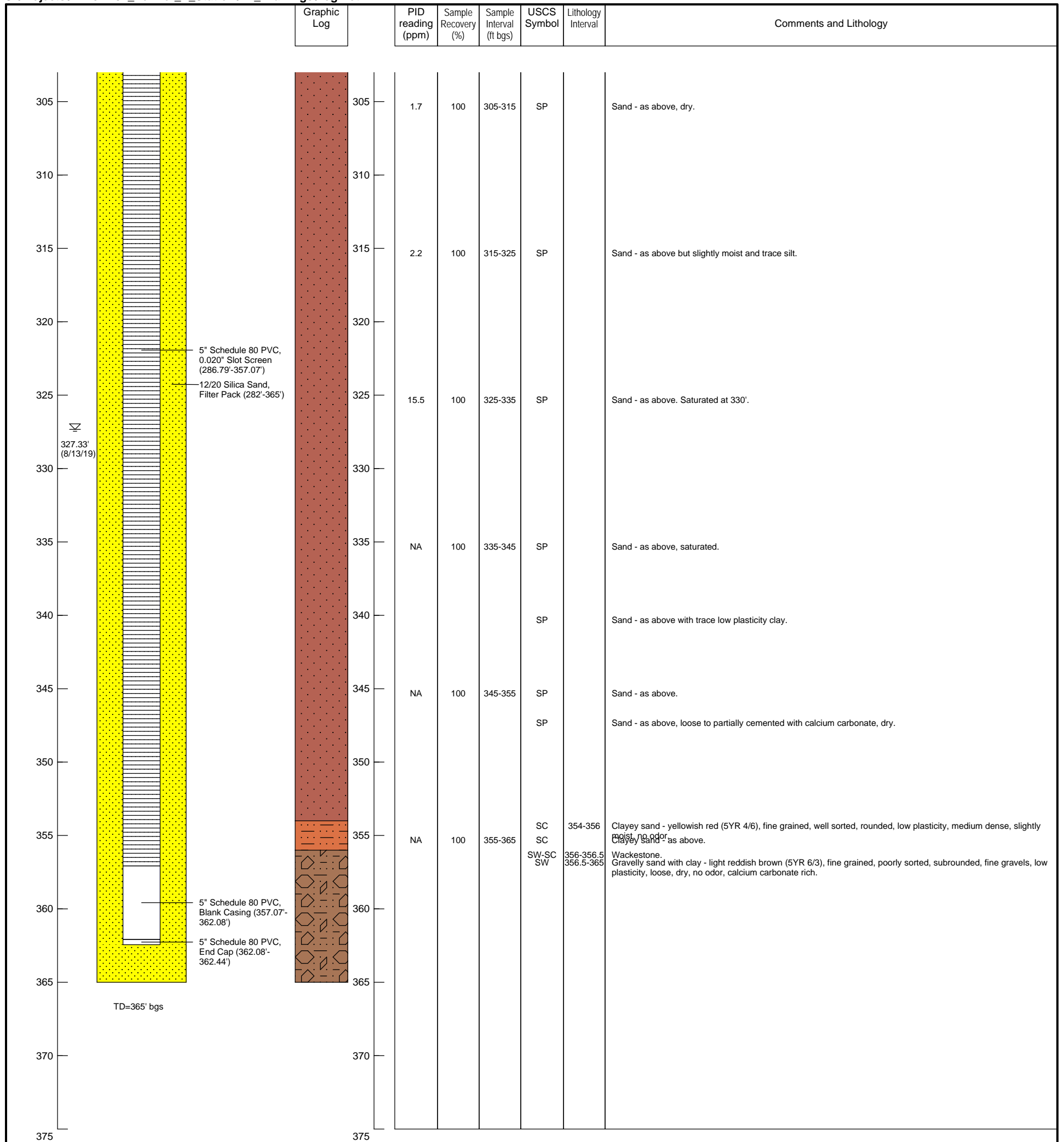
Geologist: H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 7/20/19
 Well completion date: 8/4/19

Drilling method: Sonic
 Borehole diameter: 9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1245210.02 Elevation: 4277.44
 Easting: 884291.06

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 BW-7R**





Geologist: H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 7/20/19
 Well completion date: 8/4/19

Drilling method: Sonic
 Borehole diameter: 9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1245210.02 Elevation: 4277.44
 Easting: 884291.06

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 BW-7R**



ALLSUPS #320

CLIENT: Allsup Petroleum, Inc.

Borehole ID: BW-8

page 1 of 5

DATE OF DRILLING: 11/10-14/15
 LOGGED BY: WJB
 DRILLER: John Chavez/Yellowjacket
 BOREHOLE DIAMETER: 11 3/4"
 DRILLING METHOD: ARCH
 SAMPLING METHOD: Cuttings/Split Spoon
 TOP OF CASING ELEV: na
 DEPTH TO WATER: ~327'
 TOTAL DEPTH: 356'
 SHALLOW WELL: 2" Sched 80 PVC; Screen 115'-175'
 INTERMEDIATE WELL: 2" Sched 80 PVC; Screen 200'-260'
 DEEP WELL: 4" Sched 80 PVC; Screen 287'-347'
 SURFACE COMPLETION: 18"X18" Manway w/Concrete Pad



USCS - LITHOLOGIC DESCRIPTION

Construction Data	Borehole/ Monitor Well Construction	Laboratory Sample (mg/kg) B=benzene, T=toluene X=xylene, M=metaxylene TPH=TPH gas range	PID Reading (ppm)/ Lab Sample (ppm)	Depth (in feet)	Sample Interval	Simplified Lithology
Concrete	4" casing	no=no odor to=trace odor w=weak odor m=moderate odor s=strong odor		±1.1 no	5	
	2" casing			±0.7 no		
	2" casing			±1.4 no	10	
	2" casing			±2.1 no	15	
				±1.7 no		
				±2.4 no	20	
				±1.4 no	25	
				±1.7 no	30	
				±1.4 no	35	
					40	
				±1.8 no	45	
				±2.4 no	50	
				±1.7 no	55	
				±1.5 no	60	
				±2.0 no	65	
				±1.9 no	70	

Surface Conditions: 0-0.3' Saw cut concrete.

0.3'-3.5' Cuttings/Posthole 0.3'-1.0' (SM/SW) with (SC) Silty fine to medium sand with minor gravel and clay/silt. 1.0'-3.5' (SM/SC) Clayey silty very fine sand, weakly plastic, brown (10YR), soft, slightly moist, no apparent hydrocarbon odor.

3.5'-7.5' Cuttings (SC/ML) Light tan-brown silty clayey very fine sand, plastic, soft, slightly moist, calcium carbonate, no apparent hydrocarbon odor.

7.5'-15.5' Cuttings (SC/CL) Light brown (10YR) silty sandy clay, plastic, slightly moist, no apparent hydrocarbon odor.

15.5'-23.0' Cuttings (SC/ML) Weakly cemented with calcium carbonate, slightly moist, no apparent hydrocarbon odor.

23.0'-26.0' Cuttings (SC/CL) Light brown (10YR) soft, plastic, silty very fine sand-clay mixture, slightly moist, no apparent hydrocarbon odor.

26.0'-28.0' Cuttings (SM/ML) silt-very fine sand with Stage 3 caliche, hard drilling, light tan-white, no apparent hydrocarbon odor.

28.0'-41.0' Cuttings (Caliche), Stage 3+ to 4, dense, massive, hard drilling, light tan-white.

<11/10/15 19:50 Stopped Drilling at 40'>
 <11/11/15 7:20 Blowdown - 1.1 ppm/v, no apparent hydrocarbon odor.>

41.0'-46.0' Cuttings (SM/ML) silt-very fine sand Stage 3+ calcium carbonate with interbeds of Stage 4, slightly moist.

46.0'-51.0' Cuttings (SM) (5YR 6/4) Light red brown, silty very fine sand, unconsolidated at top with localized calcium carbonate nodules, no apparent hydrocarbon odor, slightly moist.

51.0'-63.0' Cuttings (SM/ML) with Stage 2 to Stage 3 -3+ calcium carbonate zones, light tan-white pink, (5YR) slightly moist, no apparent hydrocarbon odor.

63.0'-70.0' Cuttings (SM/ML) Silt-very fine sand, light tan-brown (10YR) localized minor calcium carbonate, slightly moist, no apparent hydrocarbon odor.

70.0'-74.0' Cuttings (SM) silty very fine sand, light brown (7.5YR), unconsolidated, slightly moist.



BROWN ENVIRONMENTAL, INC

P.O. BOX 886 PLACITAS, NM 87043

ALLSUPS #320

CLIENT: Allsup's Petroleum, Inc.

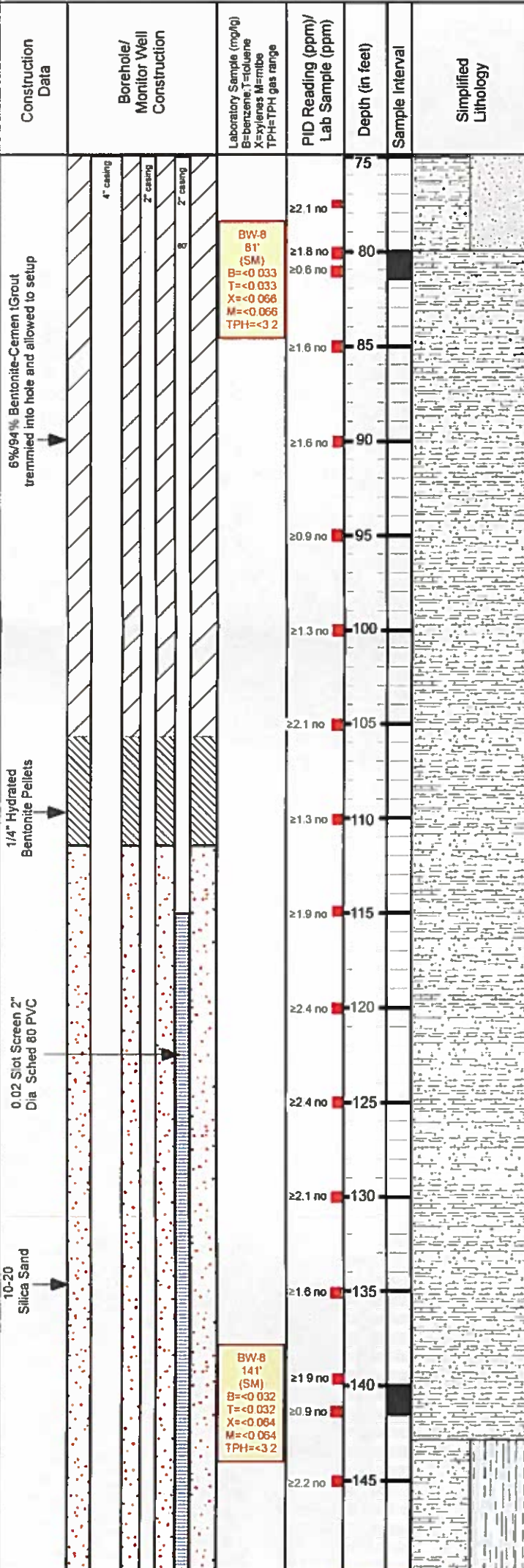
Borehole ID: BW-8

page 2 of 5

DATE OF DRILLING: 11/10-14/15
 LOGGED BY: WJB
 DRILLER: John Chavez/Yellowjacket
 BOREHOLE DIAMETER: 11 3/4"
 DRILLING METHOD: ARCH
 SAMPLING METHOD: Cuttings/Split Spoon
 TOP OF CASING ELEV: na
 DEPTH TO WATER: ~327'
 TOTAL DEPTH: 356'
 SHALLOW WELL 2" Sched 80 PVC; Screen 115'-175'
 INTERMEDIATE WELL 2" Sched 80 PVC; Screen 200'-260'
 DEEP WELL 4" Sched 80 PVC; Screen 287'-347'
 SURFACE COMPLETION: 18"X18" Manway w/Concrete Pad



USCS - LITHOLOGIC DESCRIPTION



74.0'-80.0' Cuttings (SM/SP) Fine to medium sand with trace silt - well sorted, slightly moist, unconsolidated no apparent hydrocarbon odor.

<10:32 @ 80' Let hole sit until 11:40 and collected split spoon drive sample for PID and lab analysis.>

80.0'-81.5' Split Spoon 1.5' sample. 0.0'-1.5' (SM) Silty very fine to fine sand, unconsolidated, slightly moist, no apparent hydrocarbon odor.

<Blowdown on hole at 11:45 = 1.2 ppm/v, no apparent hydrocarbon odor.>

81.5'-143' Cuttings (SM) Silty-very fine sand. Light reddish-brown (7.5YR) unconsolidated, slightly moist, well sorted, no apparent hydrocarbon odor.

<13:39 Let hole equilibrate at 140' - collected split spoon at 15:10.>

140.0'-141.5' Split Spoon 1.5' sample. (SM) (7.5YR) Very fine to fine sand with minor silt, unconsolidated to weakly disseminated calcium carbonate cemented, slightly moist, no apparent hydrocarbon odor.

143'-152' Cuttings (SM/ML) Silt content higher than surrounding with very fine sand, unconsolidated, no apparent hydrocarbon odor, slightly moist.

<15:30-16:45 Rig shutdown @ 150' for 75 minutes. Blowdown - 2.9 ppm/v.>



BROWN ENVIRONMENTAL, INC

P.O. BOX 886 PLACITAS, NM 87043

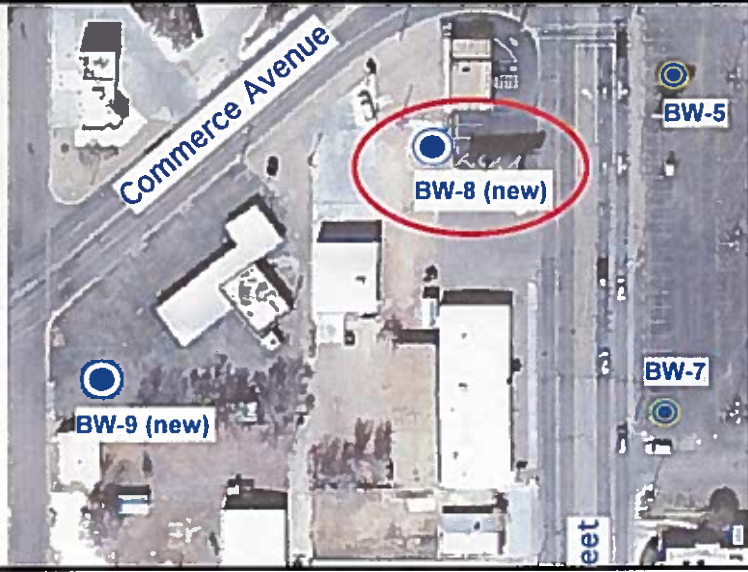
ALLSUPS #320

CLIENT: Allsup Petroleum, Inc.

Borehole ID: BW-8

page 3 of 5

DATE OF DRILLING: 11/10-14/15
 LOGGED BY: WJB
 DRILLER: John Chavez/Yellowjacket
 BOREHOLE DIAMETER: 11 3/4"
 DRILLING METHOD: ARCH - Stratex / Air Rotary
 SAMPLING METHOD: Cuttings/Split Spoon
 TOP OF CASING ELEV: na
 DEPTH TO WATER: -327'
 TOTAL DEPTH: 356'
 SHALLOW WELL: 2" Sched 80 PVC; Screen 115'-175'
 INTERMEDIATE WELL: 2" Sched 80 PVC; Screen 200'-260'
 DEEP WELL: 4" Sched 80 PVC; Screen 287'-347'
 SURFACE COMPLETION: 18"X18" Manway w/Concrete Pad



USCS - LITHOLOGIC DESCRIPTION

Construction Data	Borehole/ Monitor Well Construction	Laboratory Sample (mg/kg) B=benzene, T=toluene, X=xylene, M=mercaptan, TPH=TPH gas range	PID Reading (ppm)/ Lab Sample (ppm)	Depth (in feet)	Sample Interval	Simplified Lithology
0.02 Slot Screen 2" Dia. Sched 80 PVC			≥1.7 no	150		
10-20 Silica Sand			≥1.8 no	155		
			≥2.1 no	160		
			≥0.9 no	165		
			≥2.2 no	170		
			≥2.5 no	175		
6%94% Bentonite Cement Grout tremied into hole and allowed to setup overnight			≥1.6 no	180		
				185		
1/4" Hydrated Bentonite Pellets			≥0.5 wo	190		
			≥18.1 wo	190		
			≥12.4 wo	195		
			≥6.9 no	200		
0.02 Slot Screen 2" Dia. Sched 80 PVC			≥1.9 no	205		
			≥2.4 no	210		
			≥3.7 no	210		
			≥1.9 no	215		
			≥1.8 wo	220		

152'-161' Cuttings (SM) Silty very fine to fine sand, (7.5YR) brown, slightly moist, unconsolidated, no apparent hydrocarbon odor.

161'-165' Cuttings (SM/ML) As above, silt - very fine sand (7.5YR).

165'-238' Cuttings (SM) (7.5YR) Silty very fine to fine sand, unconsolidated, slightly moist, no apparent hydrocarbon odor.

<188' Rig breakdown, hole sat overnight, blowdown at 10:50 = 0.5 ppm/v, no apparent hydrocarbon odor.>

~200 to 210', minor calcium carbonate cemented, small sandstone nodules.

210'-240' Occasional weathered turpene-like hydrocarbon odor in off gas from hole/cyclone 2-10 ppm/v.



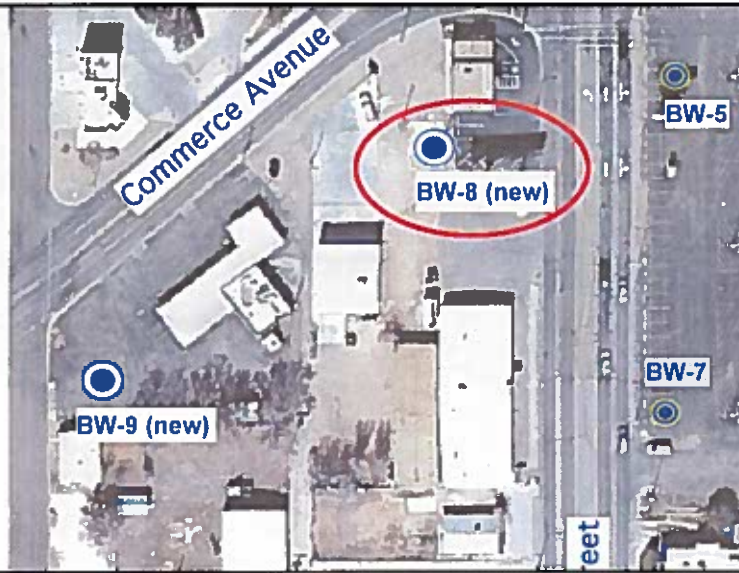
BROWN ENVIRONMENTAL, INC

P.O. BOX 886 PLACITAS, NM 87043

ALLSUPS #320

CLIENT: Allsup Petroleum, Inc.
Borehole ID: BW-8

DATE OF DRILLING: 11/10-14/15
 LOGGED BY: WJB
 DRILLER: John Chavez/Yellowjacket
 BOREHOLE DIAMETER: 11 3/4"
 DRILLING METHOD: ARCH
 SAMPLING METHOD: Cuttings/Split Spoon
 TOP OF CASING ELEV: na
 DEPTH TO WATER: -327'
 TOTAL DEPTH: 356'
 SHALLOW WELL: 2" Sched 80 PVC; Screen 115'-175'
 INTERMEDIATE WELL: 2" Sched 80 PVC; Screen 200'-260'
 DEEP WELL: 4" Sched 80 PVC; Screen 287'-347'
 SURFACE COMPLETION: 18"X18" Manway w/Concrete Pad



USCS - LITHOLOGIC DESCRIPTION

Construction Data	Borehole/ Monitor Well Construction	Laboratory Sample (mg/kg) B=benzene; T=toluene X=xylene; M=methane TPH=TPH gas range	PID Reading (ppm)/ Lab Sample (ppm)	Depth (in feet)	Simplified Lithology
0.02 Slot Screen 2" Dia. Sched 80 PVC			≥2.4 no	225	
			≥2.4 no	230	
			≥8.2 wo	235	
10-20 Silica Sand		BW-8 241' (SM/ML) B=<0.032 T=0.072 X=0.14 M=<0.063 TPH=<3.2	≥89 no ≥129 mo	240	
			≥8.9 no	245	
			≥17.1 no	250	
			≥5.9 no	255	
			≥4.1 no	260	
6% 94% Bentonite Cement Grout tremied into hole and allowed to setup			≥5.8 no	265	
			≥7.9 no	270	
3/8" Hydrated Bentonite Chips and 1/4" Pellets		BW-8 281' (SM/ML) B=<0.030 T=<0.030 X=<0.061 M=<0.061 TPH=<3.0	4.7 wo	275	
			30.2 no 36.1 wo	280	
			≥0.1 no	285	
			≥26 wo	290	
0.01 Slot Screen 4" Dia. Sched 80 PVC			≥10.1 wo	295	
			≥8.0 wo		

236'-252' (SM/ML) (7.5YR) silt-very fine sand, well sorted, slightly moist with minor calcium carbonate cemented sandstone (SAS) nodules.

<12:30 Hole at 240', stop for lunch and to let hole equilibrate. 14:00 Collected split spoon at 240'-241.5', weathered hydrocarbon odor.>

240.0'-241.5' Split Spoon 1.4' sample. (SM/ML) (7.5YR) Light brown silt to very fine sand, well sorted, slightly moist with ~2-3% calcium carbonate cemented (SAS) nodules, degraded hydrocarbon odor.

<245' Rig down for 25 minutes, blowdown = 68 ppm/v, moderate weathered hydrocarbon odor.>

252'-309' Cuttings (SM) Silty very fine to fine sand (5YR to 7.5 YR) Reddish-light brown, occasional (SAS) concretions, slightly moist.

<270' measured vapor levels in adjacent deep wells BW-4d and BW-5d= 0.01 and 0.07 ppm/v, respectively. Wells under negative pressure.>

280.0' -281.5' Split Spoon 1.4' sample. (SM) (7.5YR) Light brown, silty very fine to fine sand with several prominent concretions, slightly moist, weak hydrocarbon odor, localized (SM/ML) finer grained silt-very fine sand intervals.

(5YR) Light reddish brown below ~300' depth.



BROWN ENVIRONMENTAL, INC

P.O. BOX 886 PLACITAS, NM 87043

ALLSUPS #320

CLIENT: Allsup Petroleum, Inc.
Borehole ID: BW-8

DATE OF DRILLING: 11/10-14/15
 LOGGED BY: WJB
 DRILLER: John Chavez/Yellowjacket
 BOREHOLE DIAMETER: 11 3/4"
 DRILLING METHOD: ARCH - Stratex / Air Rotary
 SAMPLING METHOD: Cuttings/Split Spoon
 TOP OF CASING ELEV: na
 DEPTH TO WATER: -327'
 TOTAL DEPTH: 356'
 SHALLOW WELL: 2" Sched 80 PVC; Screen 115'-175'
 INTERMEDIATE WELL: 2" Sched 80 PVC; Screen 200'-260'
 DEEP WELL: 4" Sched 80 PVC; Screen 287'-347'
 SURFACE COMPLETION: 18"X18" Manway w/Concrete Pad



USCS - LITHOLOGIC DESCRIPTION

Construction Data	Borehole/Monitor Well Construction	Laboratory Sample (mg/kg) Benzene, Toluene Xylenes M+m+b TPH-TPH gas range	PID Reading (ppm) Lab Sample (ppm)	Depth (in feet)	Simplified Lithology
10-20 Silica Sand			≥8.0 wo		
			≥24 wo	305	
			≥33 wo	310	
			≥67 mo	315	
0.01 Slot Screen 4" Dia. Sched 80 PVC		BW-8 321' (SM/ML) B=<0.035 T=<0.035 X=<0.070 M=<0.070 TPH=<3.5 (1st SPT)	≥52 mo ≥276 mo ≥247 so	320	
			≥4.1 wo	325	
			≥5.1 wo	325	
			≥6.9 wo	330	
			≥6.4 wo	330	
			≥4.1 no	335	
			≥2.0 no	340	
			≥2.9 no	345	
			≥1.9 no	350	
				355	
				360	
				365	
				370	
				TD= 356'	
5' long 4" dia. blank sump Sched 80 PVC					
Natural Formation (heave)					

309'-323' Cuttings (SM) silty fine sand with (SM/ML)silt-very fine sand interbeds, gradational contacts, (5YR) reddish brown, slightly moist, degraded hydrocarbon odor, concretions common-especially in lower 5', possible thin laminar calcium carbonate cemented (SAS) sandstone zones.

320.0'-321.5' Split Spoon 1st sample collected 11/12/15 at 19:02 1.5' sample. 0.0'-1.5' (ML/SM) Silt-very fine sand (7.5YR) light reddish brown, unconsolidated, slightly moist with moderate highly weathered hydrocarbon odor (more volatile compounds partially stripped out from drilling procedure). Several 1-2" calcium carbonate cemented (SAS) nodules.

Stopped drilling at 320' 11/12/15 at 19:02, let hole sit overnight-collected 2nd split spoon from same depth and continued drilling to total depth.

320.0'-321.5' Split Spoon 2nd sample collected 11/13/15 at 8:35 - refusal 2 times - calcium carbonate zone, dense, hard, not enough sample for lab - PID =471 ppm/v, moderate to strong hydrocarbon odor, ~1" (SM/ML) in spoon. Note: borehole under vacuum - atmospheric air going into borehole.

323'-334' Cuttings (SM) (5YR) Reddish-brown silty very fine to fine sand with some concretions but less than above, moist below ~325', degraded hydrocarbon odor, present.

334'-343' Cuttings (SM/ML) Very fine to fine sand-silt, moist, 5YR) red-brown, weathered hydrocarbon odor at top with localized (SM) silty very fine to fine sand intervals (borehole not making much water - having to add water to retrieve cuttings).

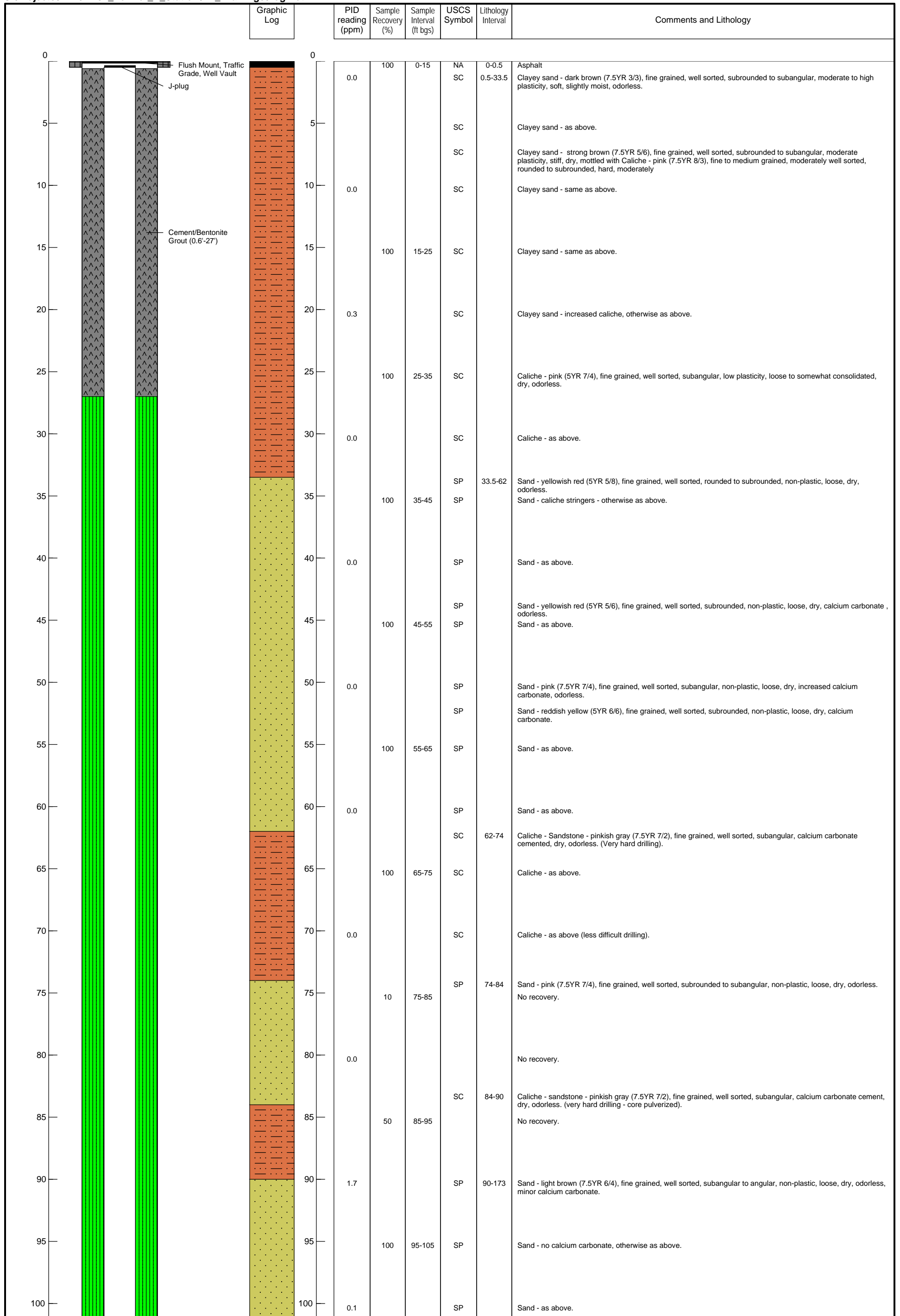
343'-346' Cuttings Very hard zone, very fine to fine grained sandstone (SAS) light tan-brown (7.5YR) calcium carbonate cemented.

346'-356' Cuttings Poor cuttings return - soupy, (ML/SM) silt-very fine sand, (7.5) light brown, no apparent hydrocarbon odor, water saturated; likely interbedded (SM), coarse grained zones as above.



BROWN ENVIRONMENTAL, INC

P.O. BOX 886 PLACITAS, NM 87043



Geologist: P. Feltman and J. Fisher
 Driller: Yellow Jacket Drilling
 Drilling start date: 5/29/19
 Well completion date: 6/8/19

Drilling method: Sonic
 Borehole diameter: 9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1244812.45 Elevation: 4274.64
 Easting: 884412.98

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 MW-11**



Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	105			105-115	SP		Sand with clay - pink (7.5YR 7/4), fine grained, well sorted, subangular to angular, low plasticity, loose, dry, odorless. (water added for drilling).
	110	6.0			SP		Sand - as above.
	115			115-125	SP		Sand - light brown (7.5YR 6/3), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry.
	120	0.8			SP		Sand - as above.
	125			125-135	SP		Sand - as above.
	130	0.4			SP		Sand - as above.
	135			135-145	SP		Sand - as above.
	140	1.0			SP		Sand - calcium carbonate, otherwise as above. (Driller reports hard drilling)
	145			145-155	SP		Sand - light brown (7.5YR 6/3), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry.
	150	0.4			SP		Sand - as above.
	155			155-165	SP		Sand - as above.
	160	3.3			SP		Sand - as above.
	165			165-175	SP		Sand with clay - brown (7.5YR 5/4), fine grained, well sorted, subangular to angular, low to moderate plasticity, loose, dry, odorless.
	170	0.1			SP		Sand - as above.
	175			175-185	SM	173-188.5	Silty sand - pink (7.5YR 7/4), fine grained, well sorted, subrounded, non-plastic, loose, slightly moist, odorless.
	180	0.5			SM		Silty sand - subrounded to angular, otherwise as above.
	185			185-195	SM		Silty sand - as above.
	190	0.0			SP	188.5-360	Silty sand - very dark grayish brown (10YR 3/2), fine grained, well sorted, subrounded to subangular, low plasticity, possibly cemented (pulverized), slightly moist, odorless, no calcium carbonate.
	195			195-205	SP		Sand - light brown (7.5YR 6/4), fine grained, well sorted, subangular, non-plastic, loose, slightly moist, odorless.
	200	0.3			SP		Sand - as above.

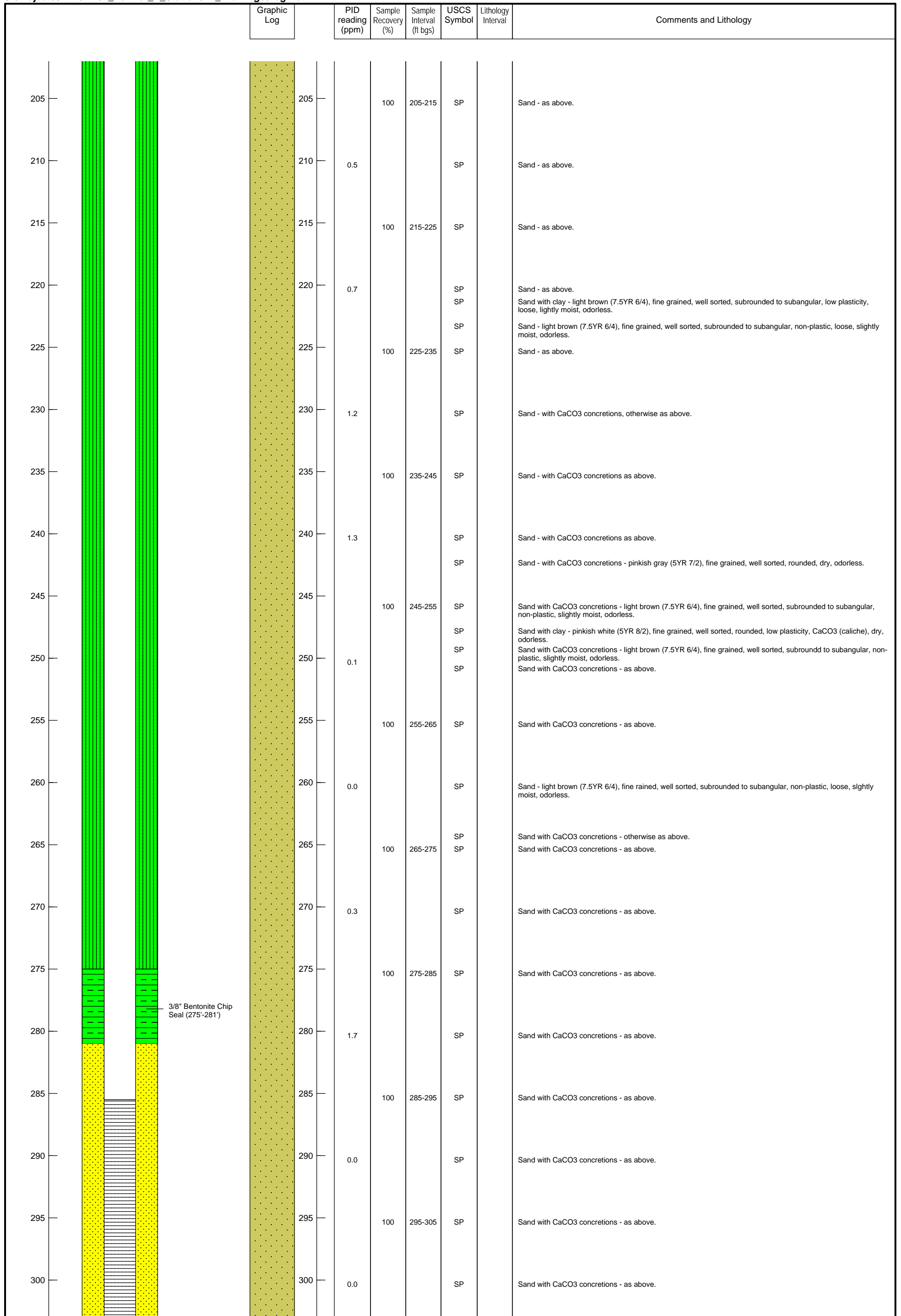
Geologist: P. Feltman and J. Fisher
 Driller: Yellow Jacket Drilling
 Drilling start date: 5/29/19
 Well completion date: 6/8/19

Drilling method: Sonic
 Borehole diameter: 9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1244812.45 Elevation: 4274.64
 Easting: 884412.98

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 MW-11**





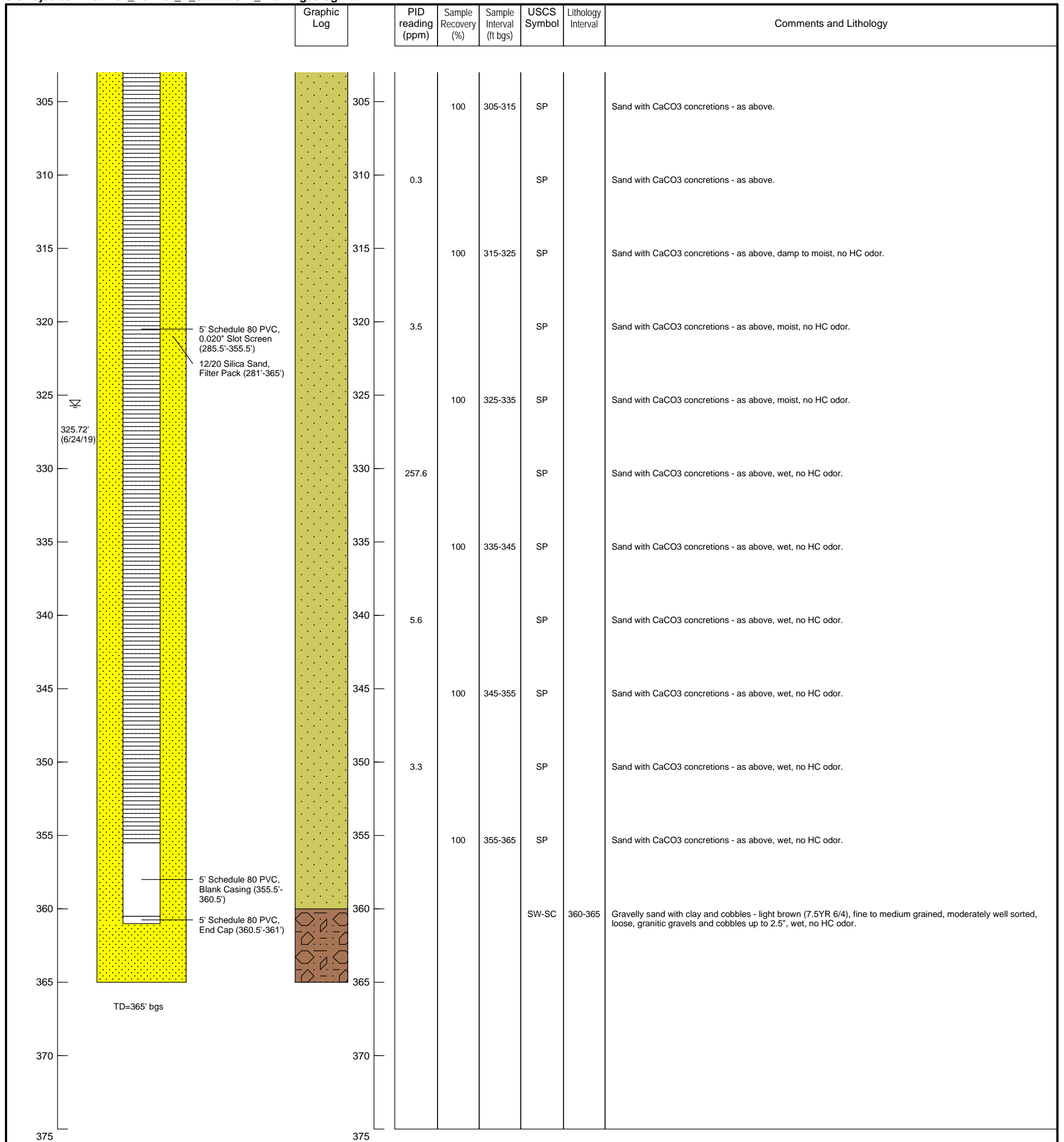
Geologist: P. Feltman and J. Fisher
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**FORMER Y STATION
 CLOVIS, NEW MEXICO
 MW-11**





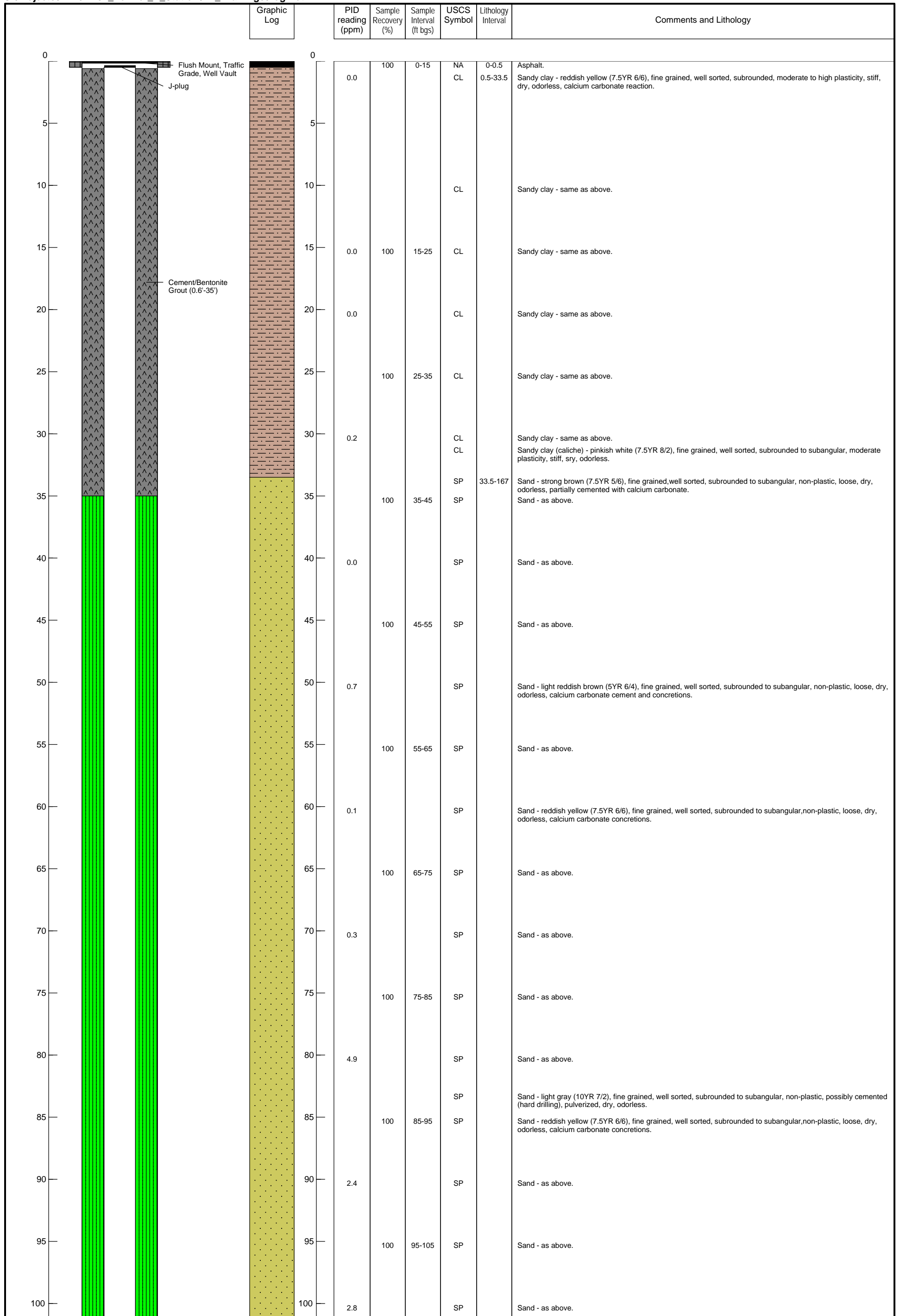
Geologist: P. Feltman and J. Fisher
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 Borehole diameter: 9.5"
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**FORMER Y STATION
 CLOVIS, NEW MEXICO
 MW-11**





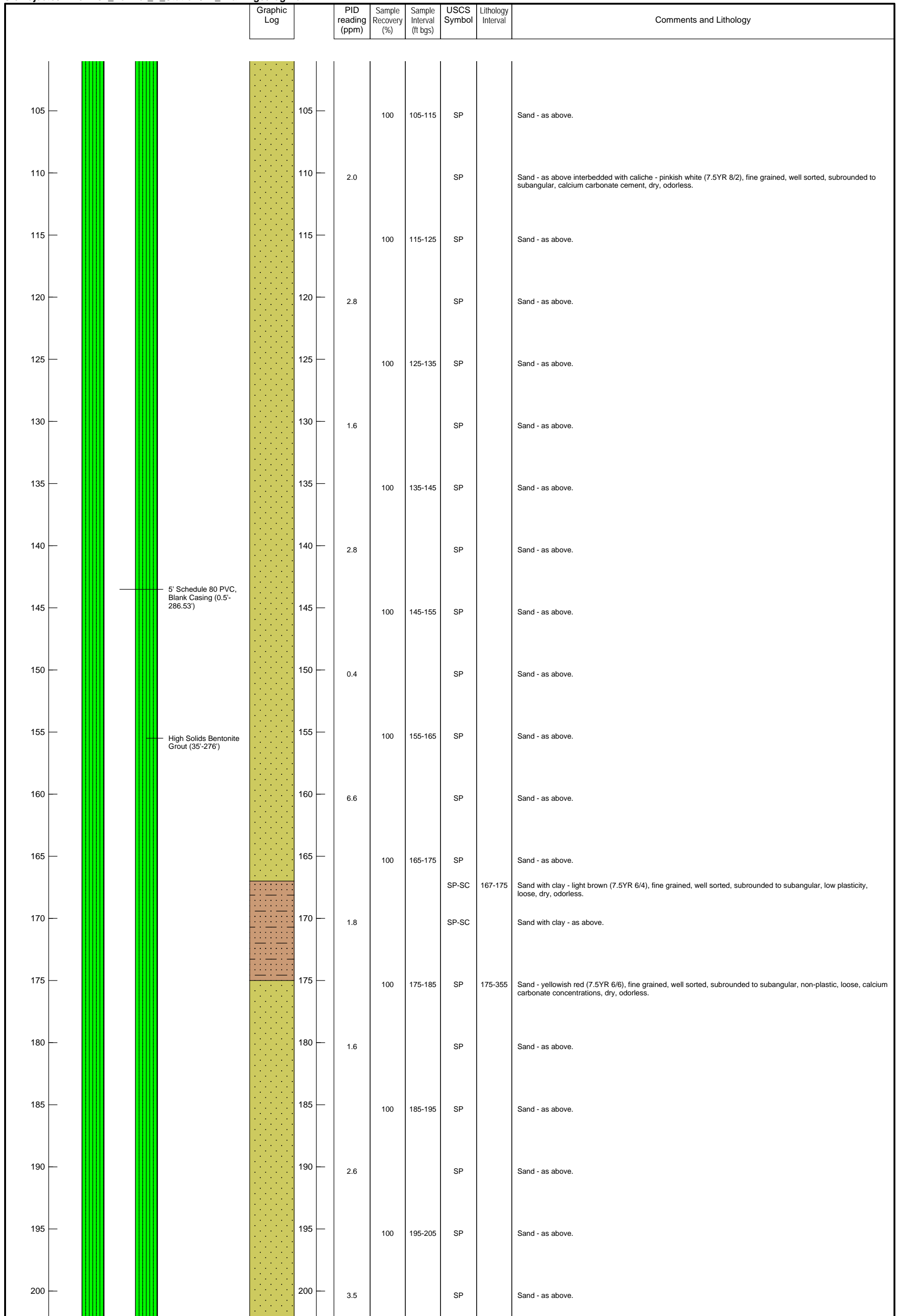
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 7/9/19 Well completion date: 7/20/19

Drilling method: Sonic
 Borehole diameter: 9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1245128.28 Elevation: 4277.60
 Easting: 884520.19

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 MW-12**





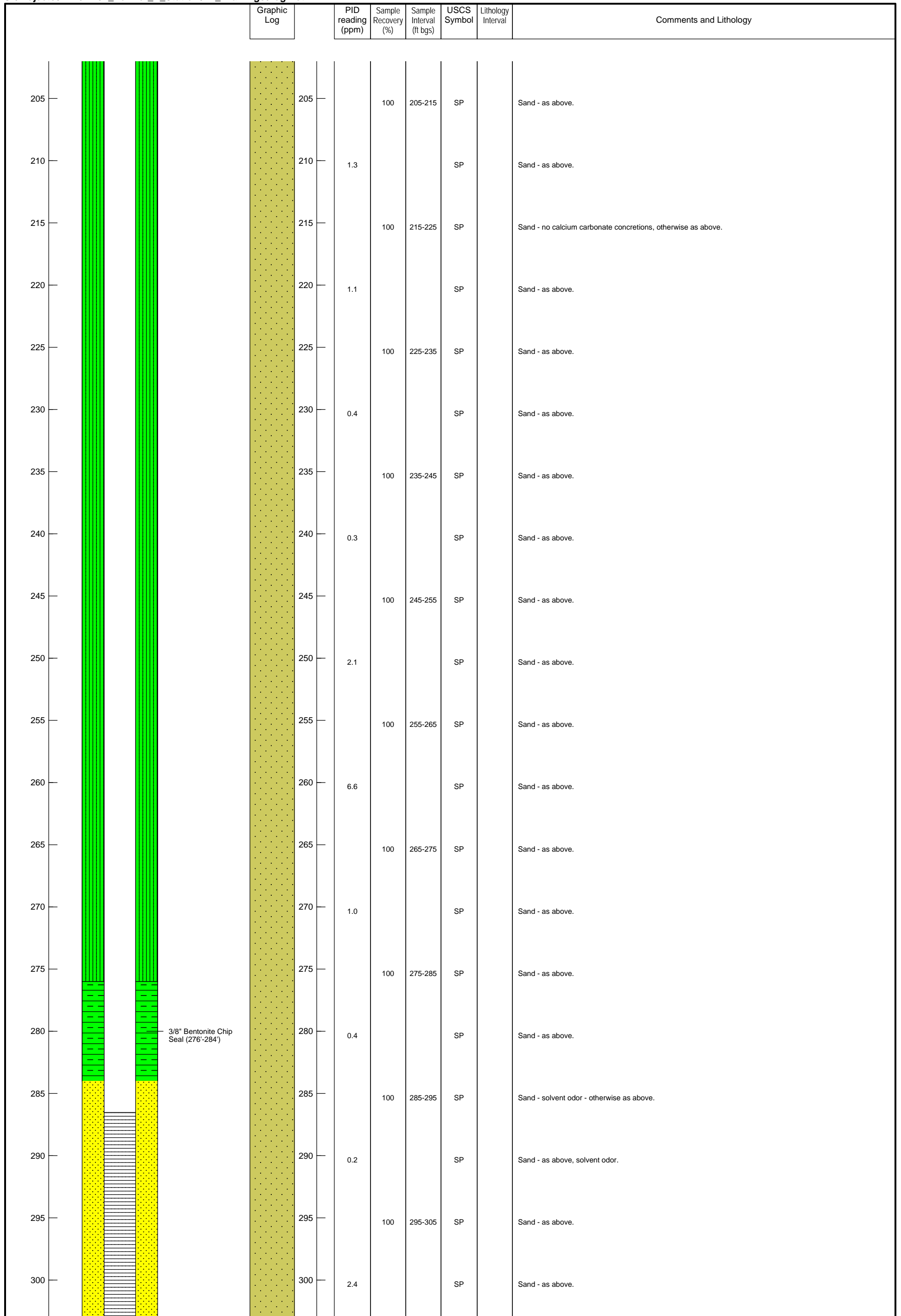
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 7/9/19 Well completion date: 7/20/19

Drilling method: Sonic
 Borehole diameter: 9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1245128.28 Elevation: 4277.60
 Easting: 884520.19

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 MW-12**





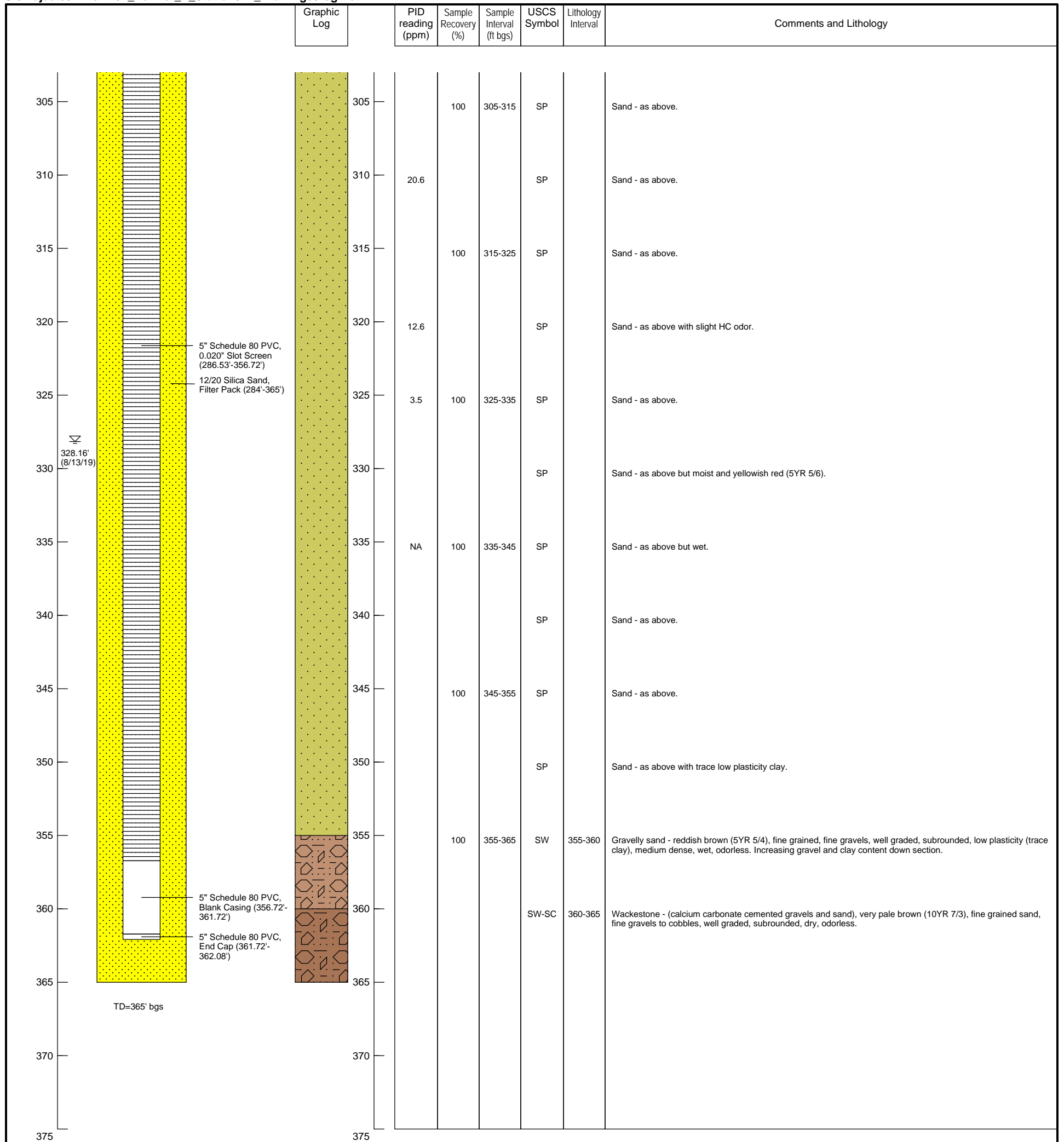
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 7/9/19 Well completion date: 7/20/19

Drilling method: Sonic
 Borehole diameter: 9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1245128.28 Elevation: 4277.60
 Easting: 884520.19

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 MW-12**





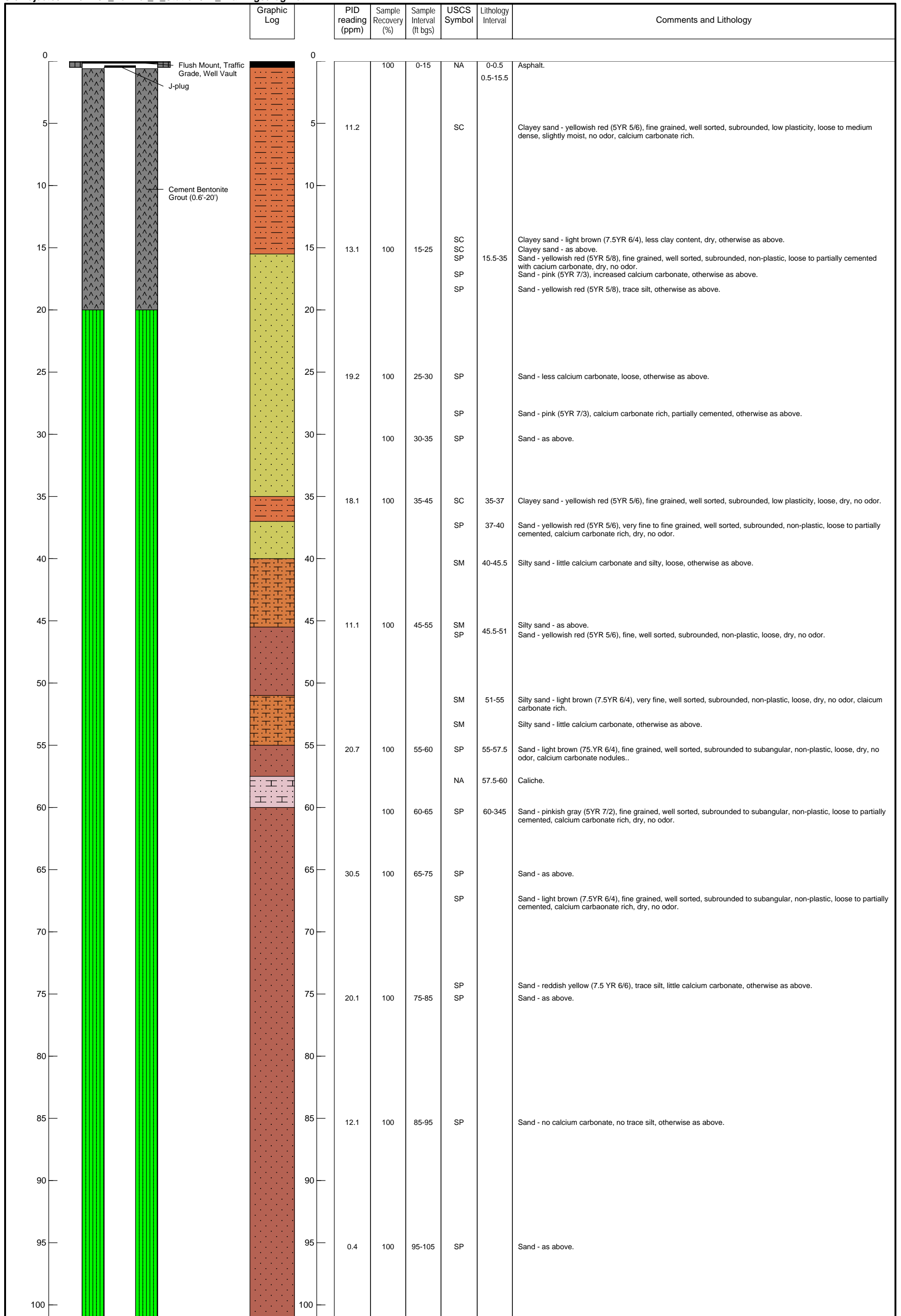
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 7/9/19 Well completion date: 7/20/19

Drilling method: Sonic
 Borehole diameter: 9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
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 Easting: 884520.19

FORMER Y STATION
 CLOVIS, NEW MEXICO
MW-12





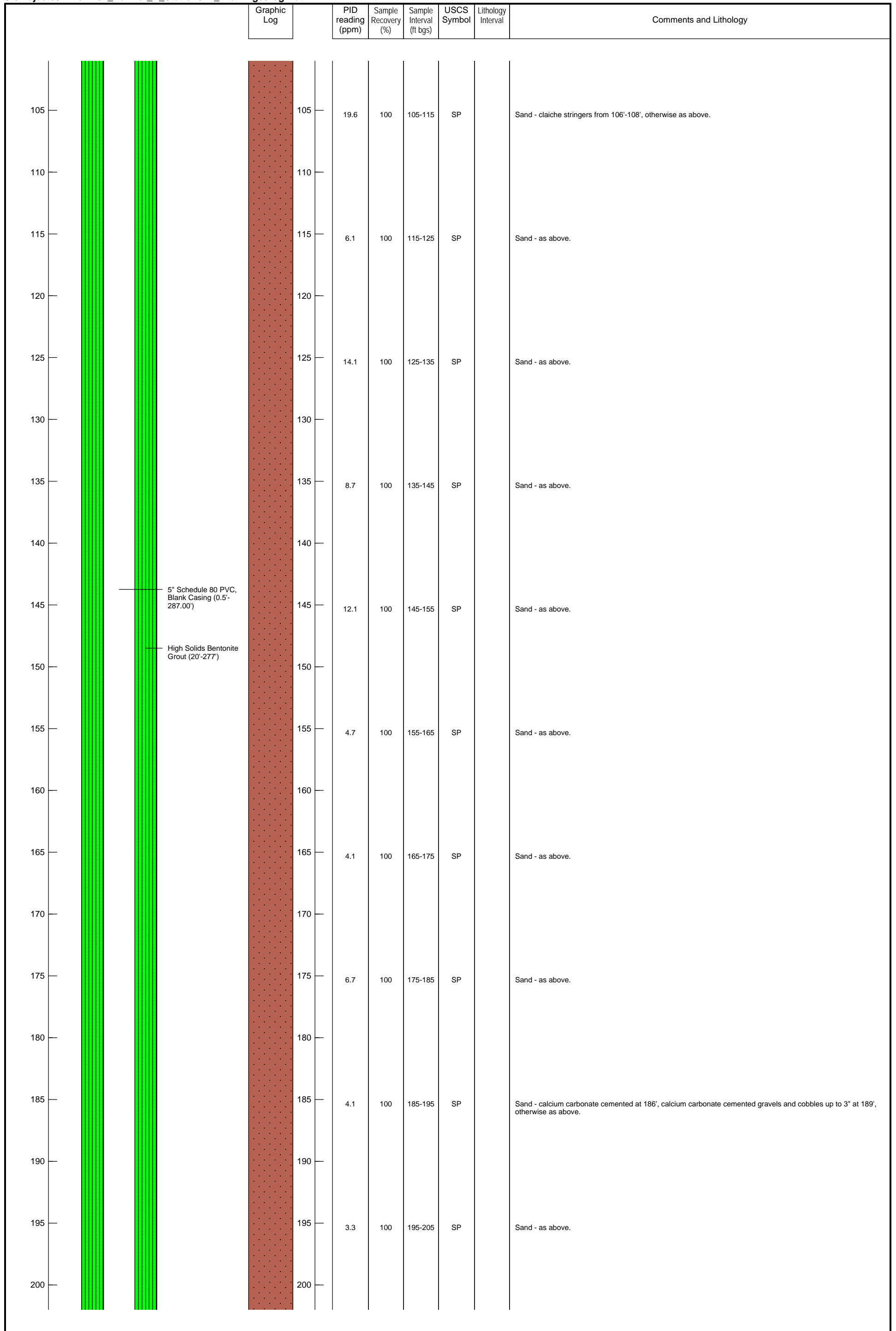
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 8/4/19
 Well completion date: 8/13/19

Drilling method: Sonic
 Borehole diameter: 9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1244960.74 Elevation: 4275.82
 Easting: 884269.96

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 MW-13**





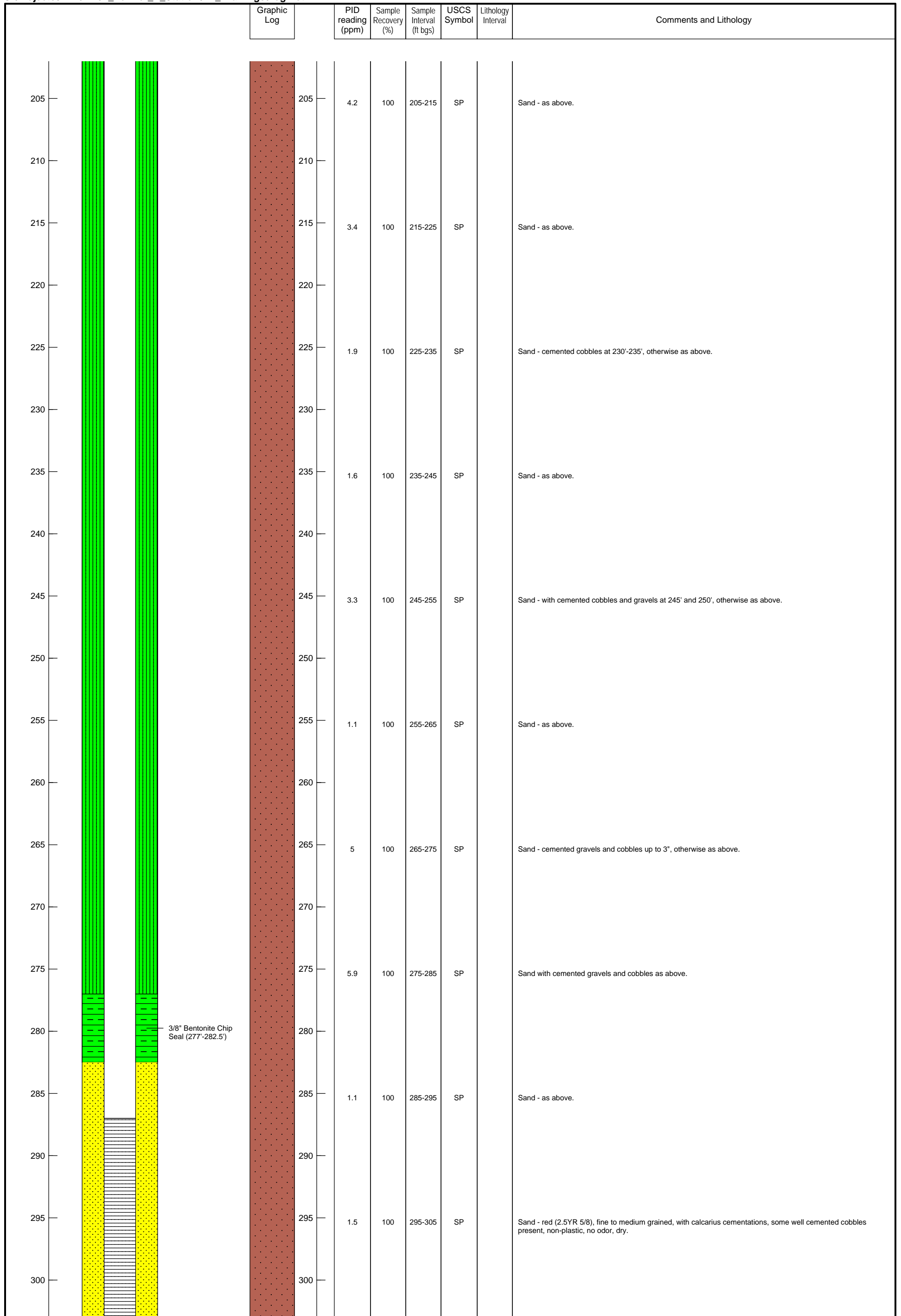
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 Driller: Yellow Jacket Drilling
 Drilling start date: 8/4/19
 Well completion date: 8/13/19

Drilling method: Sonic
 Borehole diameter: 9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1244960.74 Elevation: 4275.82
 Easting: 884269.96

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 MW-13**





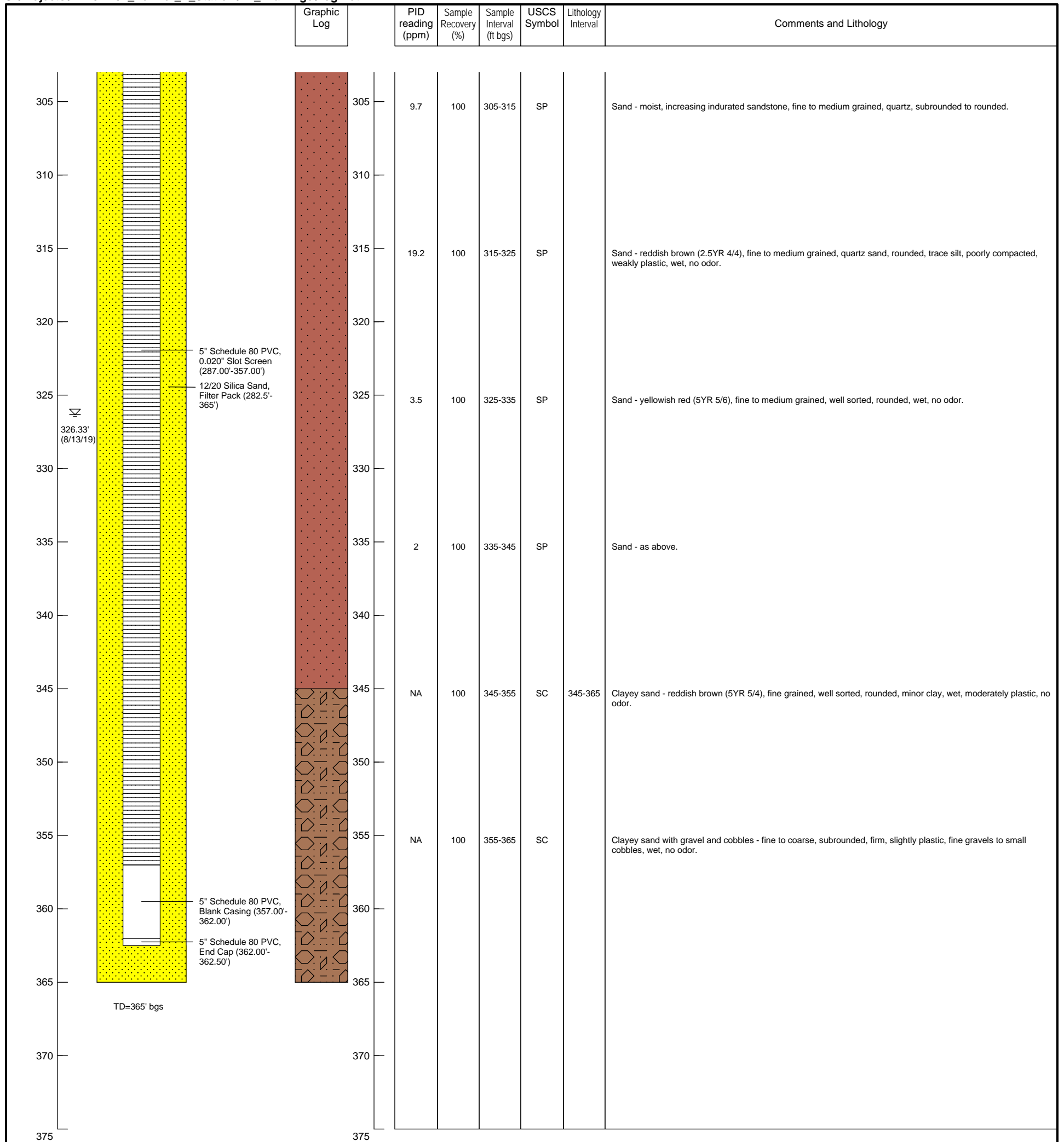
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 8/4/19
 Well completion date: 8/13/19

Drilling method: Sonic
 Borehole diameter: 9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1244960.74 Elevation: 4275.82
 Easting: 884269.96

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 MW-13**





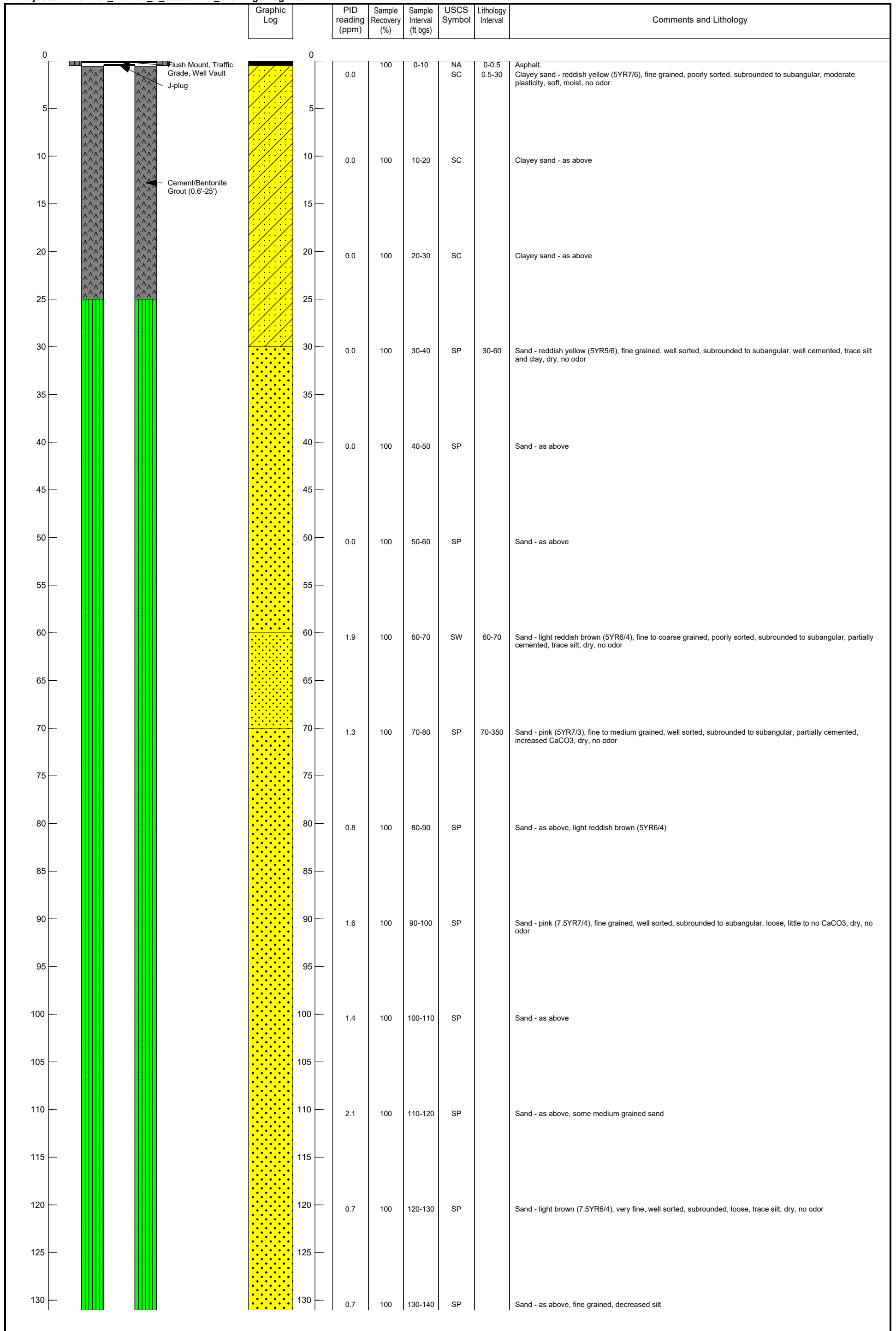
Geologist: P. Feltman and J. Fisher
 Driller: Yellow Jacket Drilling
 Drilling start date: 8/4/19
 Well completion date: 8/13/19

Drilling method: Sonic
 Borehole diameter: 9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
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 Easting: 884269.96

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 MW-13**





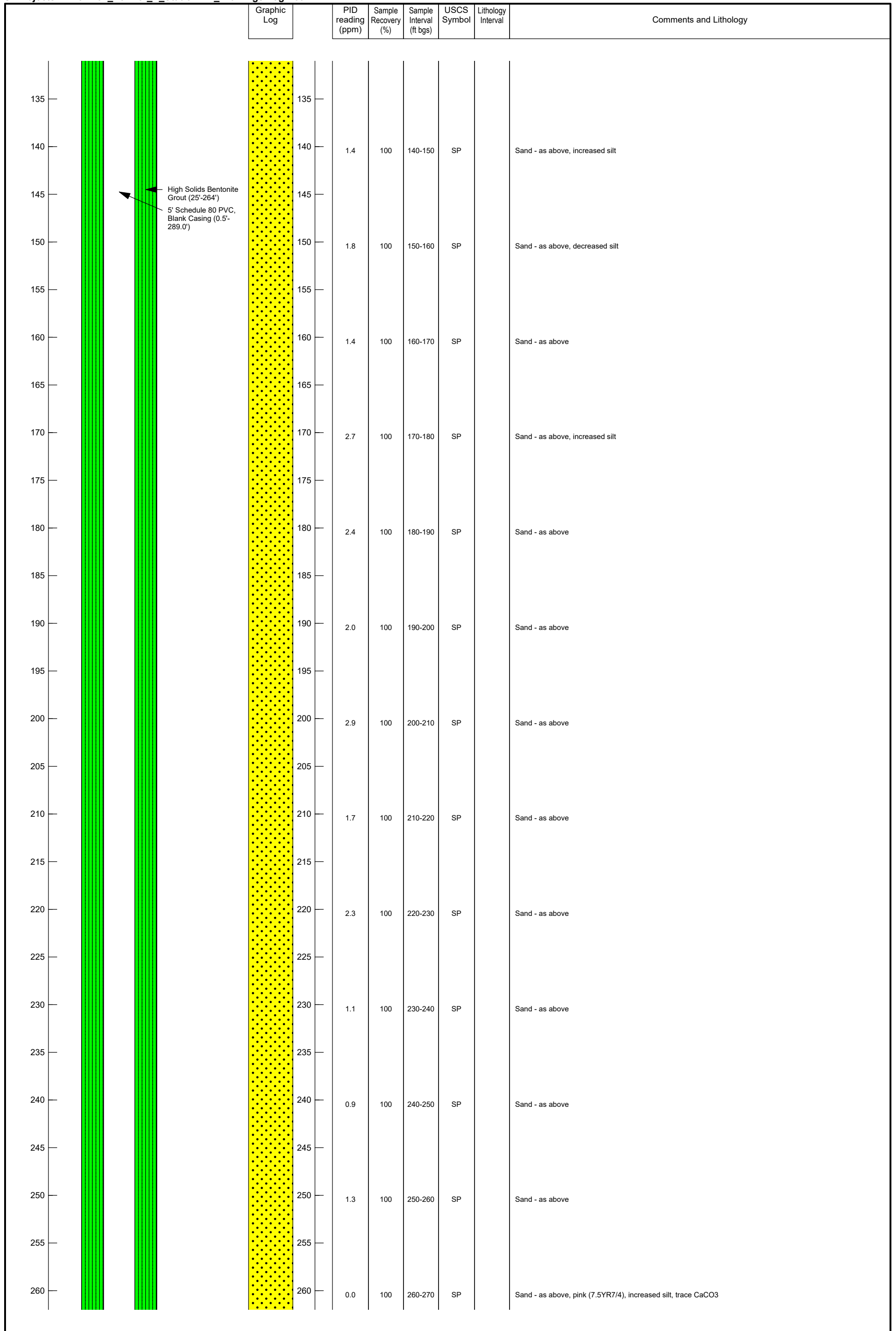
Geologist: J. Fisher and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 5/29/2020
 Well completion date: 5/29/2020

Drilling method: ARCH
 Borehole diameter: 8.5"
 Sampling method: Cuttings

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1244755.74 Elevation: 4276.23
 Easting: 884811.25

**FORMER Y STATION
 STATE LEAD SITE
 CLOVIS, NEW MEXICO
 MW-16**





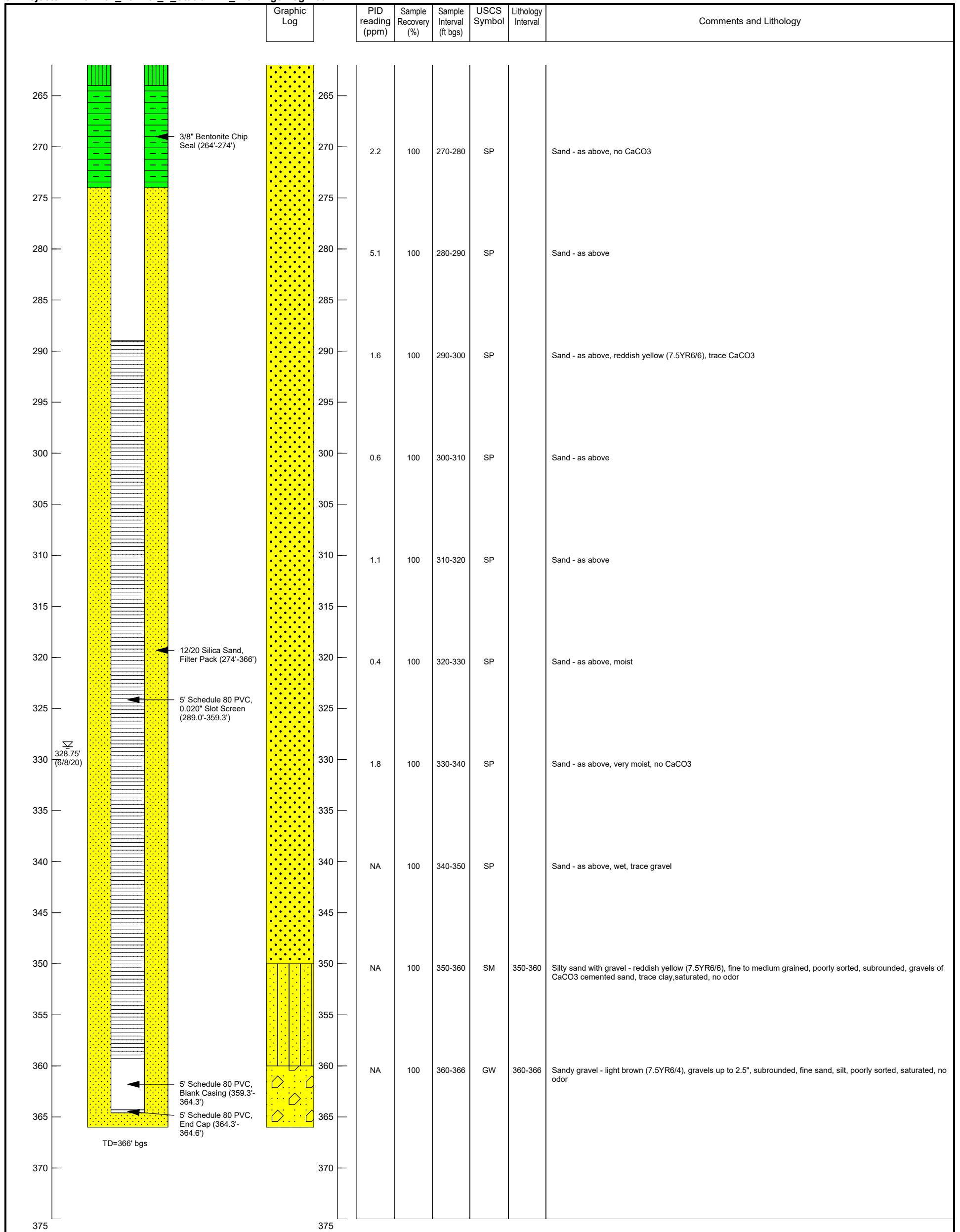
Geologist: J. Fisher and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 5/29/2020
 Well completion date: 5/29/2020

Drilling method: ARCH
 Borehole diameter: 8.5"
 Sampling method: Cuttings

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
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 Easting: 884811.25

**FORMER Y STATION
 STATE LEAD SITE
 CLOVIS, NEW MEXICO
 MW-16**





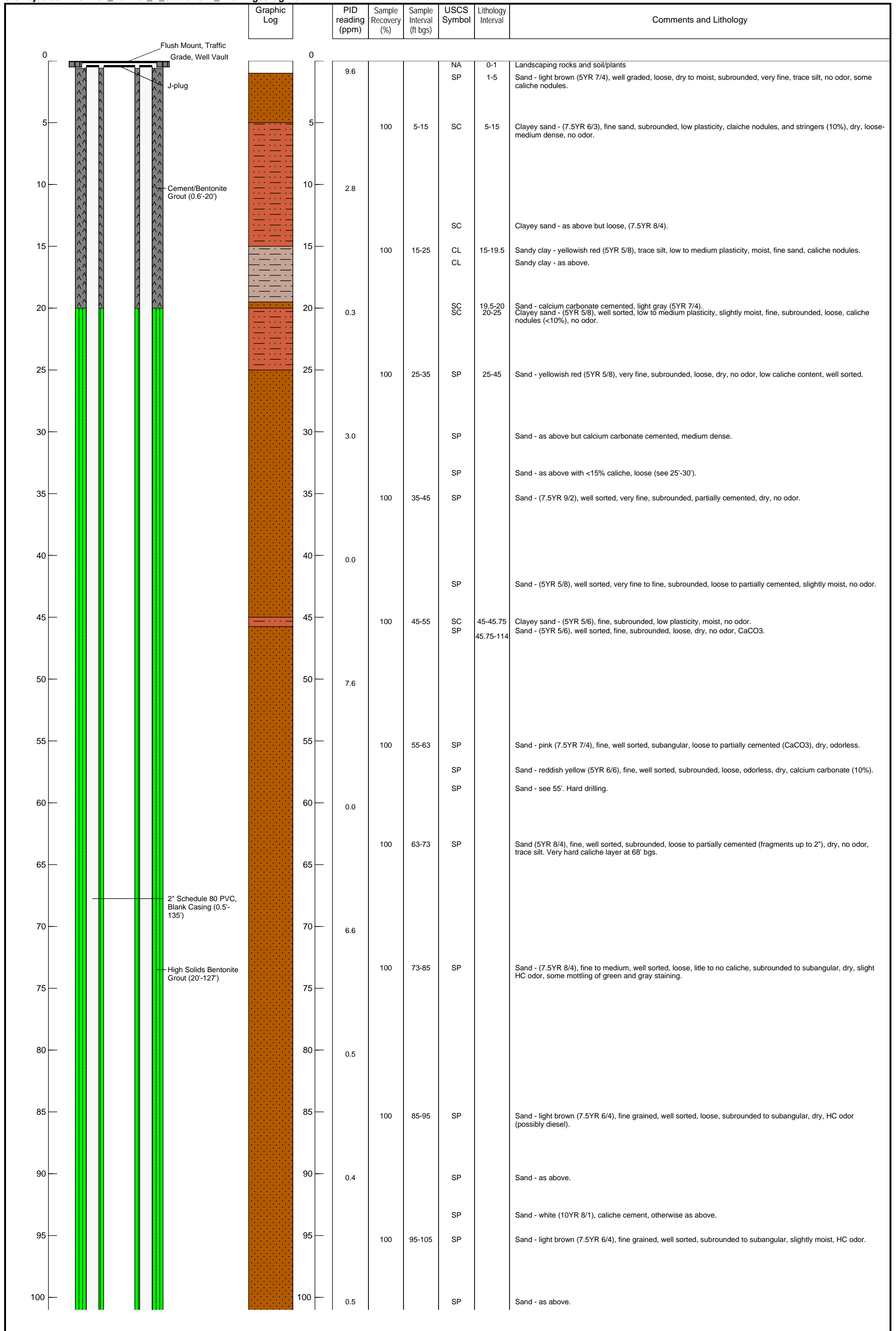
Geologist: J. Fisher and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 5/29/2020
 Well completion date: 5/29/2020

Drilling method: ARCH
 Borehole diameter: 8.5"
 Sampling method: Cuttings

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1244755.74 Elevation: 4276.23
 Easting: 884811.25

**FORMER Y STATION
 STATE LEAD SITE
 CLOVIS, NEW MEXICO
 MW-16**





Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 6/20/19
 Well completion date: 6/29/19

Drilling method: Sonic
 Borehole diameter: 10.25"/9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1245546.71 Elevation: 4280.00
 Easting: 884125.47

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 RW-1**



Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
105	2" Schedule 80 PVC, Blank Casing (0.5'-205')			105-115	SP		Sand - as above.
110		1.3			SP		Sand - as above.
115				114-115	NA	114-115	Caliche - pinkish white (7.5YR 8/2), fine grained, well sorted, subrounded, calcium carbonate cemented, dry, odorless.
				115-125	SP	115-281	Sand - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, slightly moist, HC odor, minor staining.
120		73.2			SP		Sand - as above.
125				125-135	SP		Sand - as above.
130	3/8" Bentonite Chip Seal (127'-131')	4.1			SP		Sand - as above.
135	4" Schedule 80 PVC, Blank Casing (0.5'-264.9')			135-145	SP		Sand - as above.
140		22.7			SP		Sand - as above.
145				145-155	SP		Sand - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, minor clay, loose, slightly moist, HC odor.
150		3.6			SP		Sand - as above.
155				155-165	SP		Sand - as above.
160		2.8			SP		Sand - with calcium carbonate concretions, otherwise as above.
165	2" Schedule 80 PVC, 0.020" Slot Screen (135'-195')			165-175	SP		Sand - as above.
	12/20 Silica Sand, Filter Pack (131'-200')				SP		Sand - as above.
170		17.3			SP		Sand - as above.
175				175-185	SP		Sand - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, loose, slightly moist, HC odor.
180		14.5			SP		Sand - as above.
185				185-195	SP		Sand - as above.
190		6.1			SP		Sand - as above.
195	2" Schedule 80 PVC, End Cap (195'-195.33')			195-205	SP		Sand - calcium carbonate concretions, otherwise as above.
200		13.2			SP		Sand - as above.

Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 6/20/19
 Well completion date: 6/29/19

Drilling method: Sonic
 Borehole diameter: 10.25"/9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1245546.71 Elevation: 4280.00
 Easting: 884125.47

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 RW-1**



Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
205	3/8" Bentonite Chip Seal (200'-212')		100	205-215	SP		Sand - as above.
210		16.9			SP		Sand - as above.
215	2" Schedule 80 PVC, 0.020" Slot Screen (215'-255')		100	215-225	SP		Sand - as above.
220		53.4			SP		Sand - with calcium carbonate concretions, otherwise as above.
225	2" Schedule 80 PVC, End Cap (255'-255.33')		100	225-235	SP		Sand - as above.
230		17.4			SP		Sand - as above.
235	3/8" Bentonite Chip Seal (257'-262')		100	235-245	SP		Sand - as above.
240		30.6			SP		Sand with minor clay - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, low plasticity, loose, slightly moist, HC odor.
245	3/8" Bentonite Chip Seal (257'-262')		100	245-255	SP		Sand with minor clay - as above.
250		26.8			SP		Sand with minor clay - as above.
255	3/8" Bentonite Chip Seal (257'-262')		100	255-265	SP		Sand with minor clay - as above.
260		6.3			SP		Sand with calcium carbonate concretions - light brown (7.5YR 6/4), fine grained well sorted, subrounded to subangular, non-plastic, loose, slightly moist, HC odor.
265	3/8" Bentonite Chip Seal (257'-262')		50	265-273	SP		Sand with calcium carbonate concretions - as above.
270					NA		No recovery.
275	3/8" Bentonite Chip Seal (257'-262')	32.2	100	273-280	SP		Sand with calcium carbonate concretions - as above.
280		21.1	100	280-285	SP	281-282	Sand with calcium carbonate concretions - as above. Sandstone - pinkish gray (7.5YR 7/2), fine grained, well sorted, subrounded to subangular, calcium carbonate cement, dry, odorless.
285	3/8" Bentonite Chip Seal (257'-262')		100	285-295	SP	282-348	Sand with calcium carbonate concretions and stringers - light brown (7.5YR 6/4), fine grained, well sorted, surrounded to subangular, non-plastic, loose, slightly moist, slight HC odor.
290					SP		Sand - staining brown (7.5YR 5/3), otherwise as above.
295	3/8" Bentonite Chip Seal (257'-262')	>15,000	100	295-305	SP		Sand - continued staining and HC odor, as above.
300		>15,000			SP		Sand with calcium carbonate concretions - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, loose, moist, HC odor.

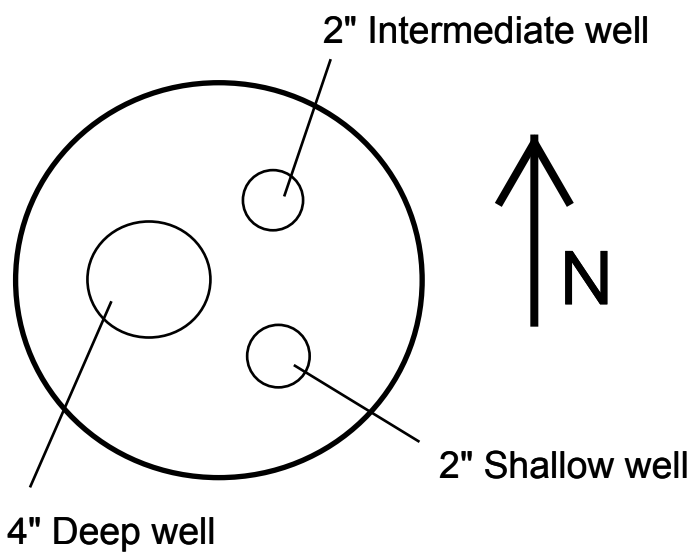
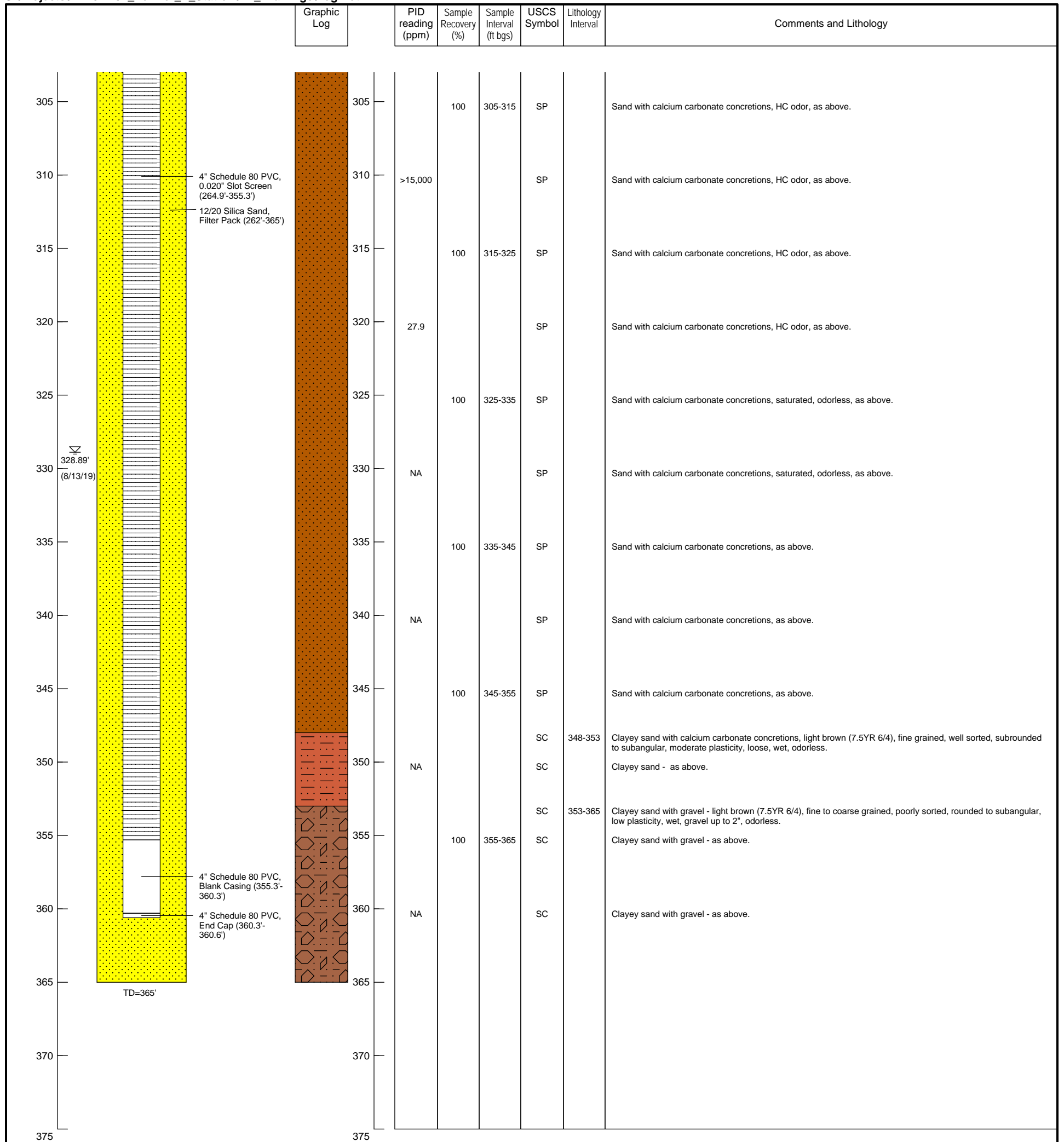
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 6/20/19
 Well completion date: 6/29/19

Drilling method: Sonic
 Borehole diameter: 10.25"/9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1245546.71 Elevation: 4280.00
 Easting: 884125.47

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 RW-1**





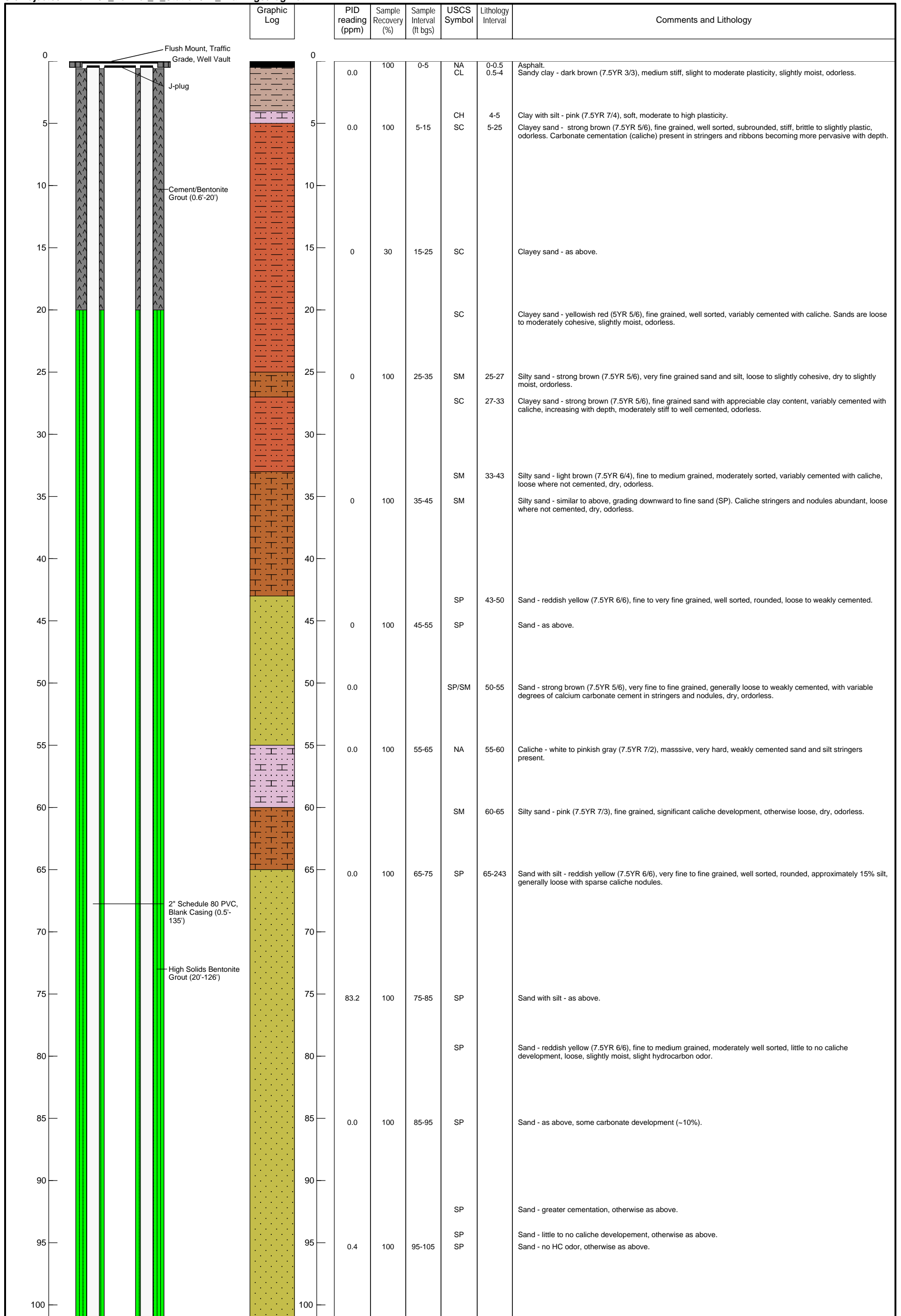
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
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 Well completion date: 6/29/19

Drilling method: Sonic
 Borehole diameter: 10.25"/9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1245546.71 Elevation: 4280.00
 Easting: 884125.47

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 RW-1**





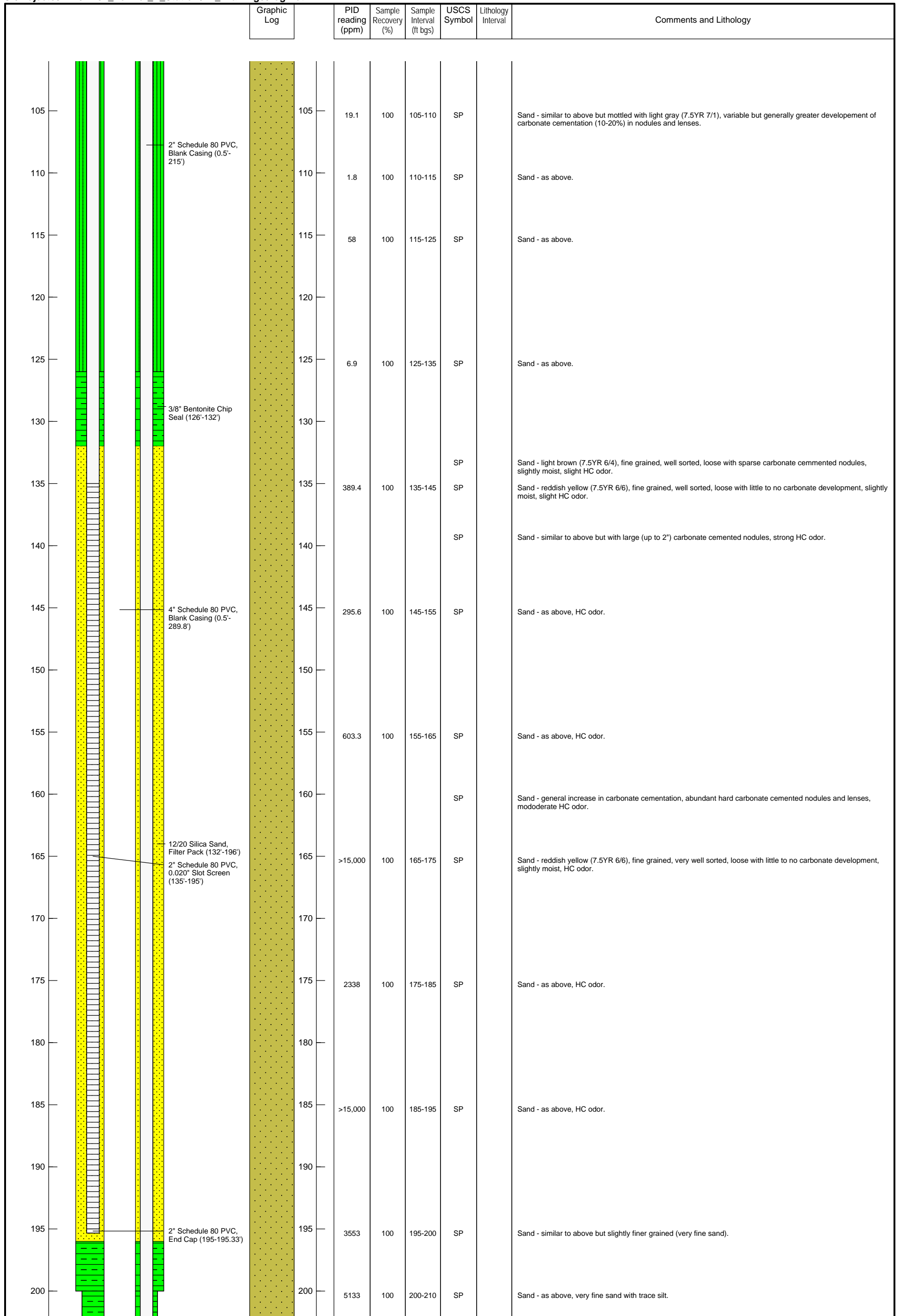
Geologist: H. Barnes and J. Raucci
 Driller: Yellow Jacket Drilling
 Drilling start date: 6/15/19
 Well completion date: 6/19/19

Drilling method: Sonic
 Borehole diameter: 10.25"/9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 124516.84 Elevation: 4279.70
 Easting: 884140.97

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 RW-2**





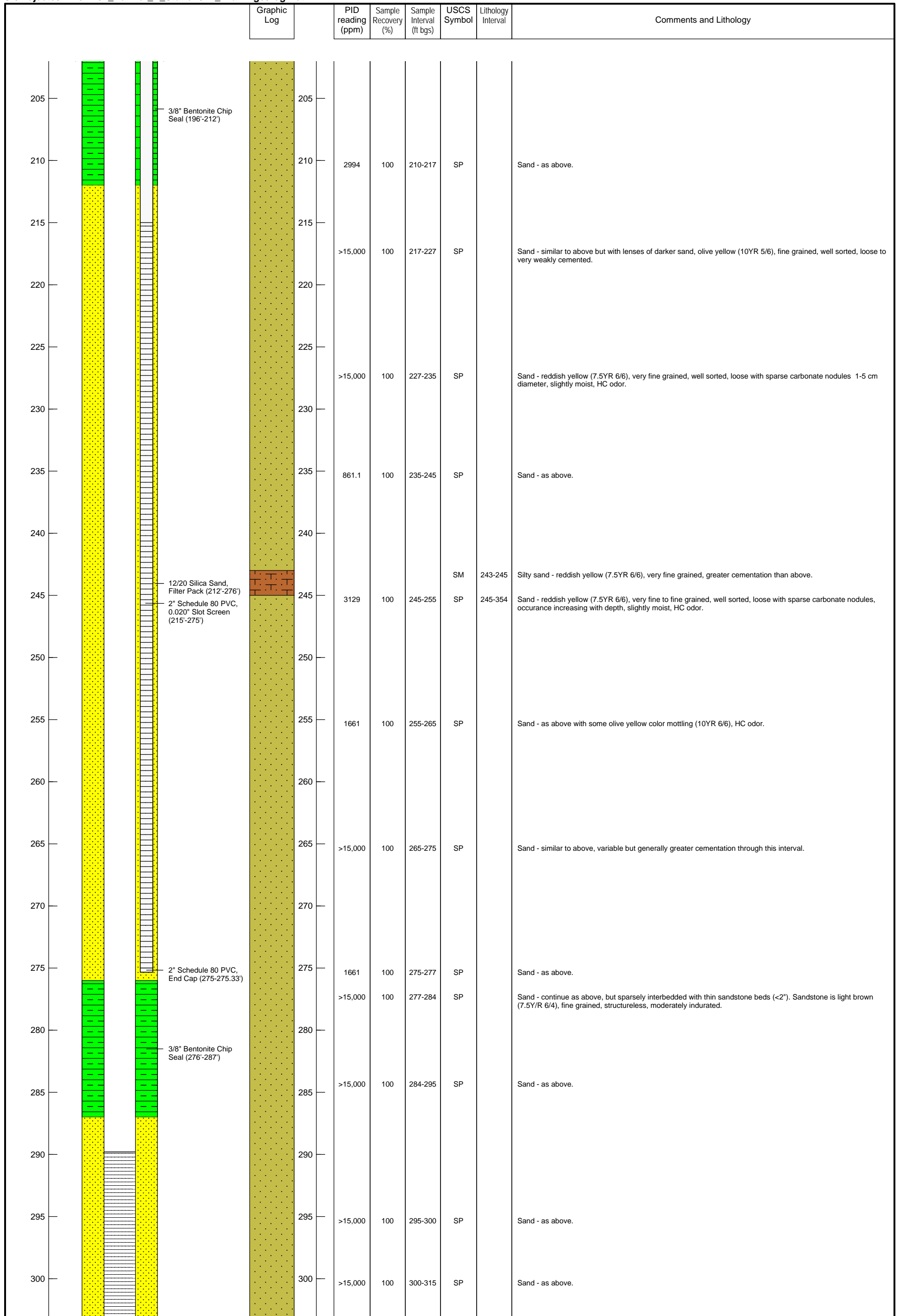
Geologist: H. Barnes and J. Raucci
 Driller: Yellow Jacket Drilling
 Drilling start date: 6/15/19
 Well completion date: 6/19/19

Drilling method: Sonic
 Borehole diameter: 10.25"/9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 124516.84 Elevation: 4279.70
 Easting: 884140.97

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 RW-2**





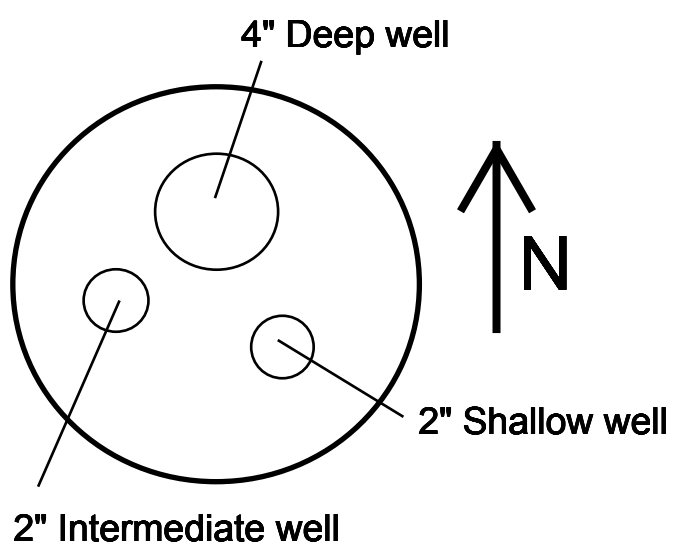
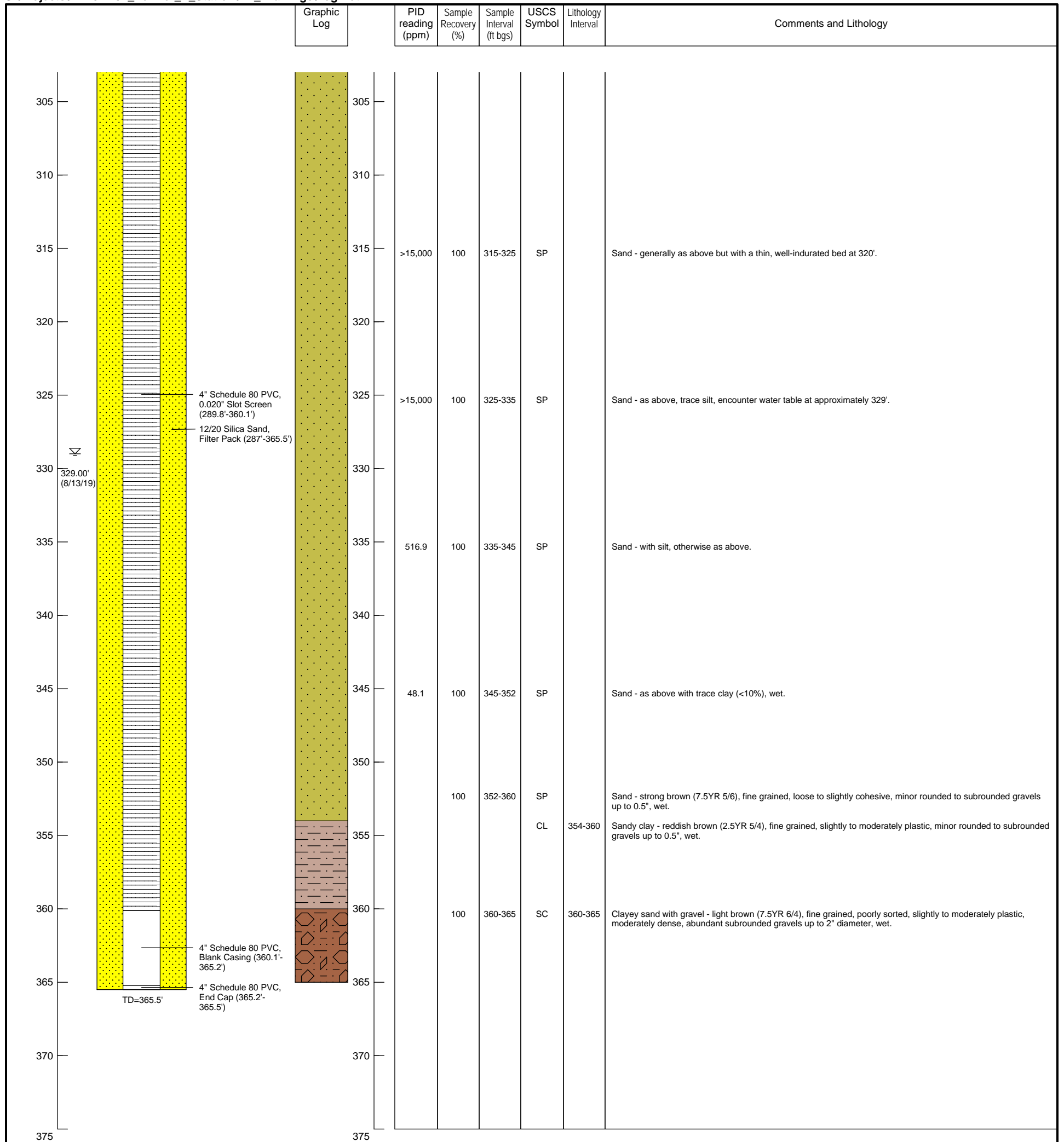
Geologist: H. Barnes and J. Raucci
 Driller: Yellow Jacket Drilling
 Drilling start date: 6/15/19
 Well completion date: 6/19/19

Drilling method: Sonic
 Borehole diameter: 10.25"/9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
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 Northing: 124516.84 Elevation: 4279.70
 Easting: 884140.97

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 RW-2**





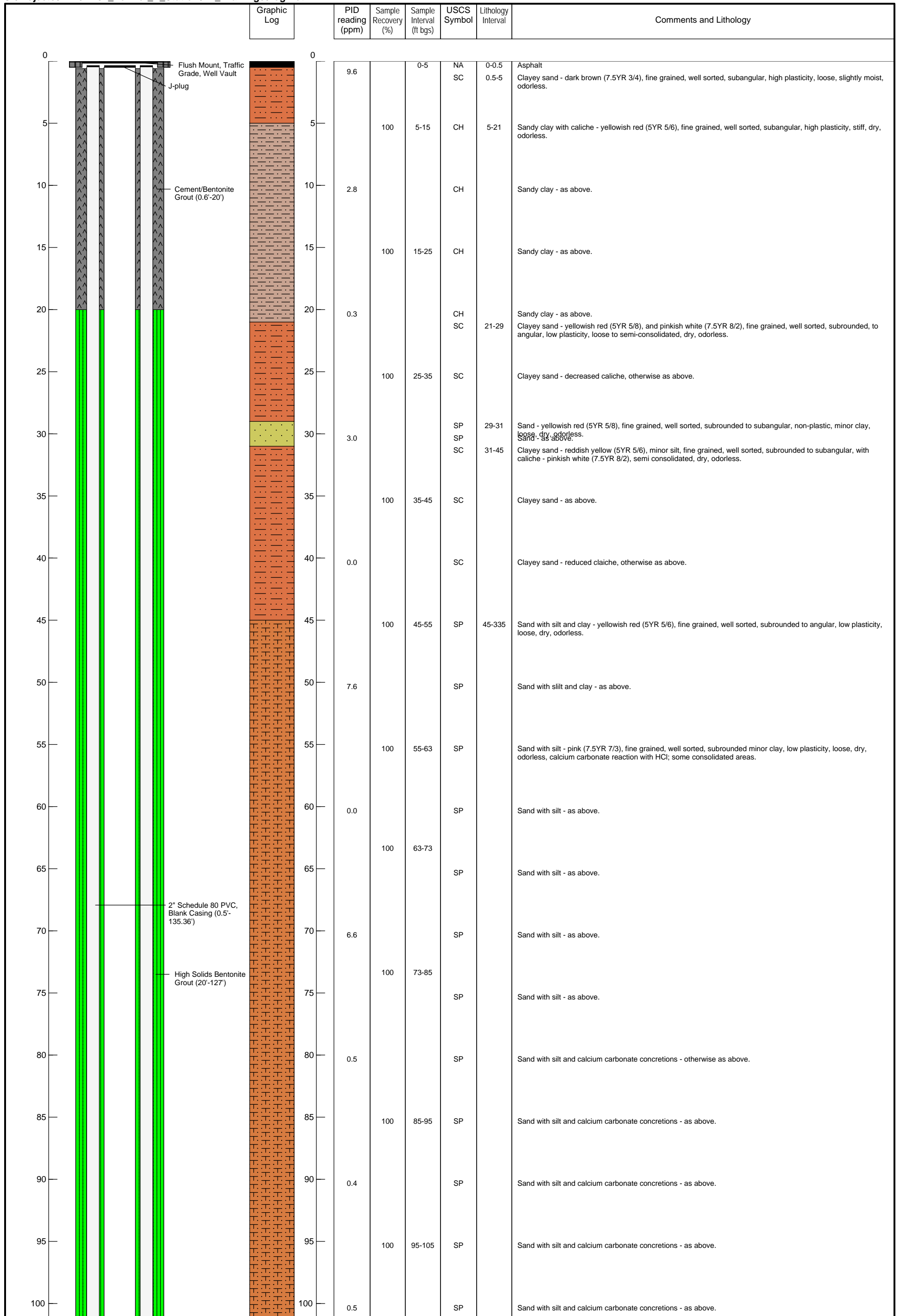
Geologist: H. Barnes and J. Raucci
 Driller: Yellow Jacket Drilling
 Drilling start date: 6/15/19
 Well completion date: 6/19/19

Drilling method: Sonic
 Borehole diameter: 10.25"/9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
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 Northing: 124516.84 Elevation: 4279.70
 Easting: 884140.97

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 RW-2**





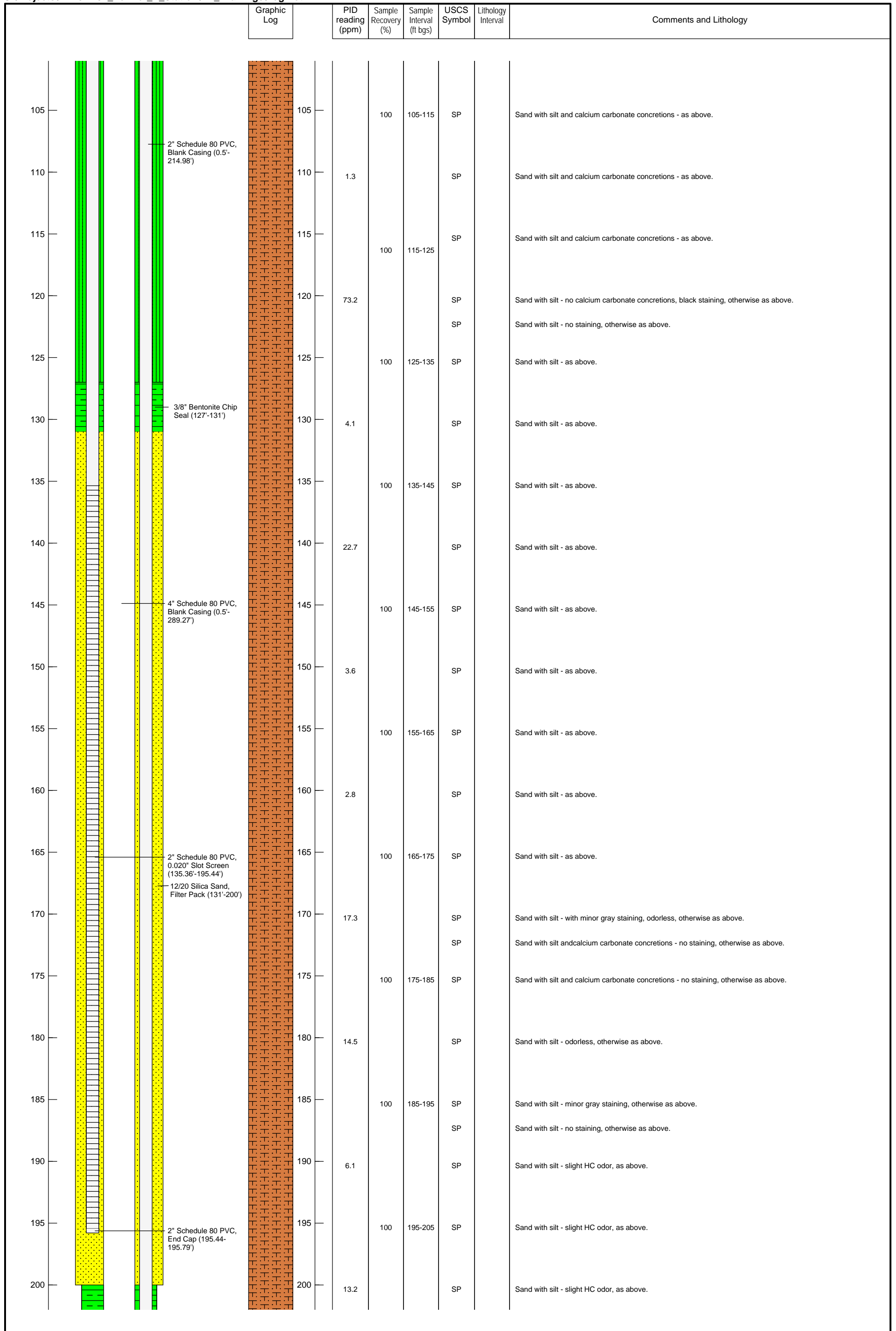
Geologist: P. Feltman
 Driller: Yellow Jacket Drilling
 Drilling start date: 8/19/19
 Well completion date: 8/30/19

Drilling method: Sonic
 Borehole diameter: 10.25"/9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1245486.71 Elevation: 4278.78
 Easting: 884251.49

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 RW-3**





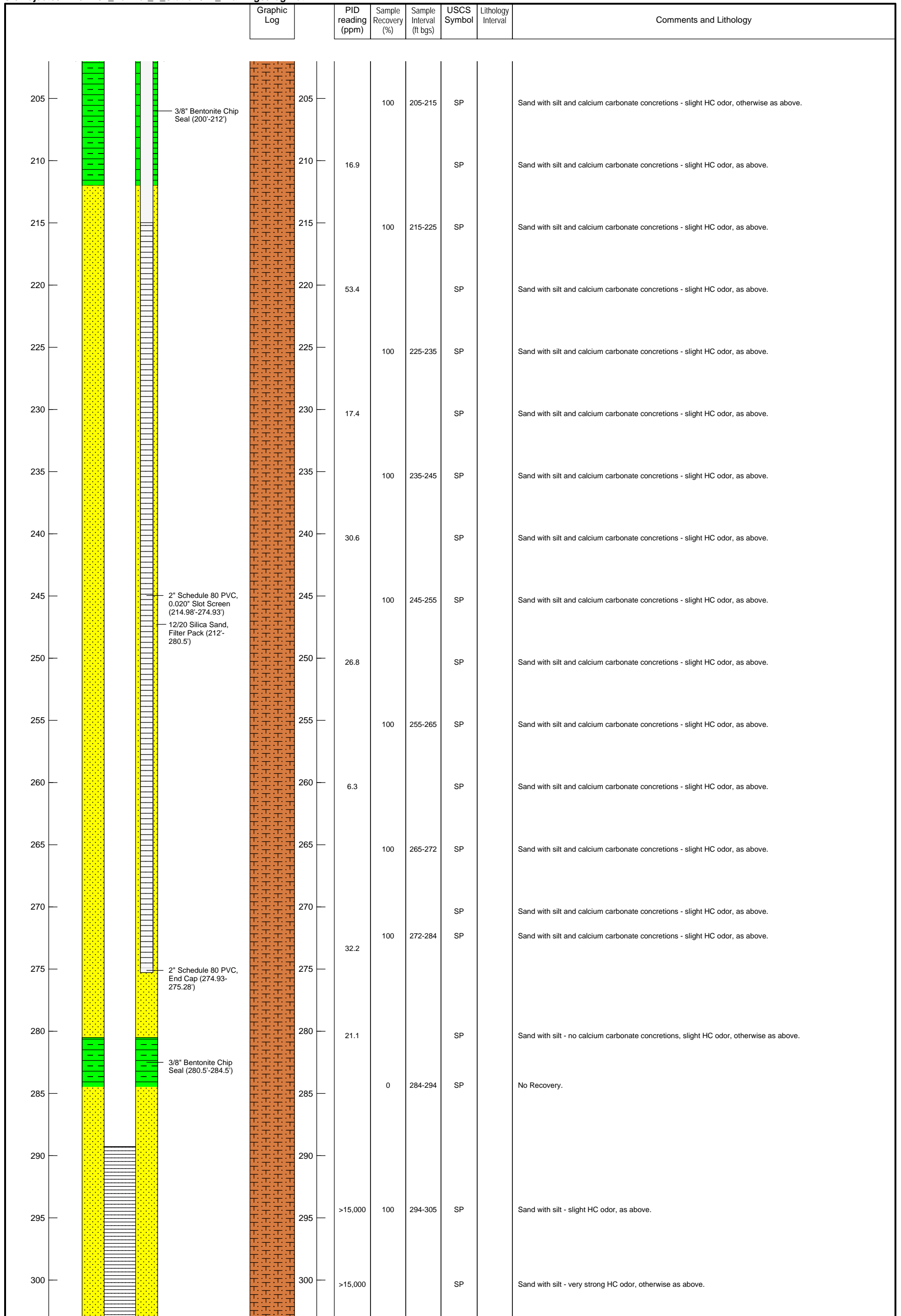
Geologist: P. Feltman
 Driller: Yellow Jacket Drilling
 Drilling start date: 8/19/19
 Well completion date: 8/30/19

Drilling method: Sonic
 Borehole diameter: 10.25"/9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1245486.71 Elevation: 4278.78
 Easting: 884251.49

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 RW-3**





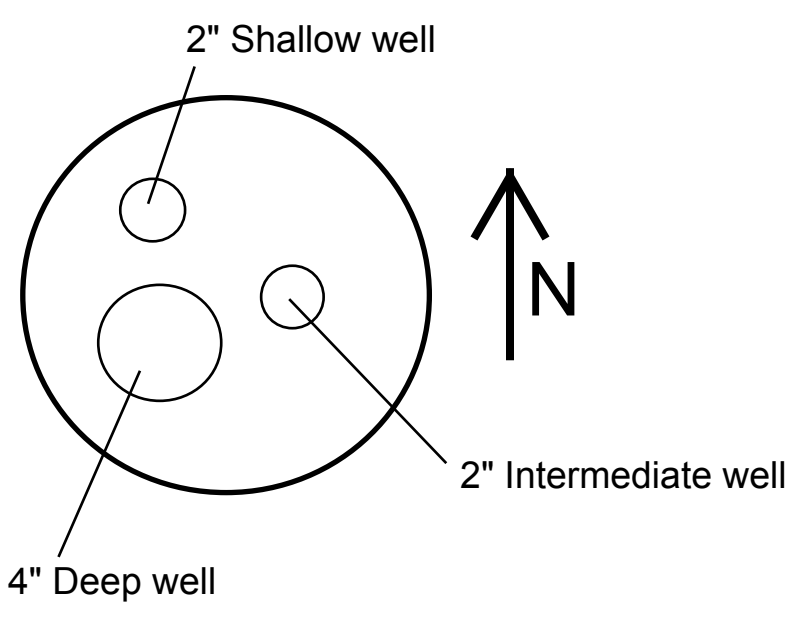
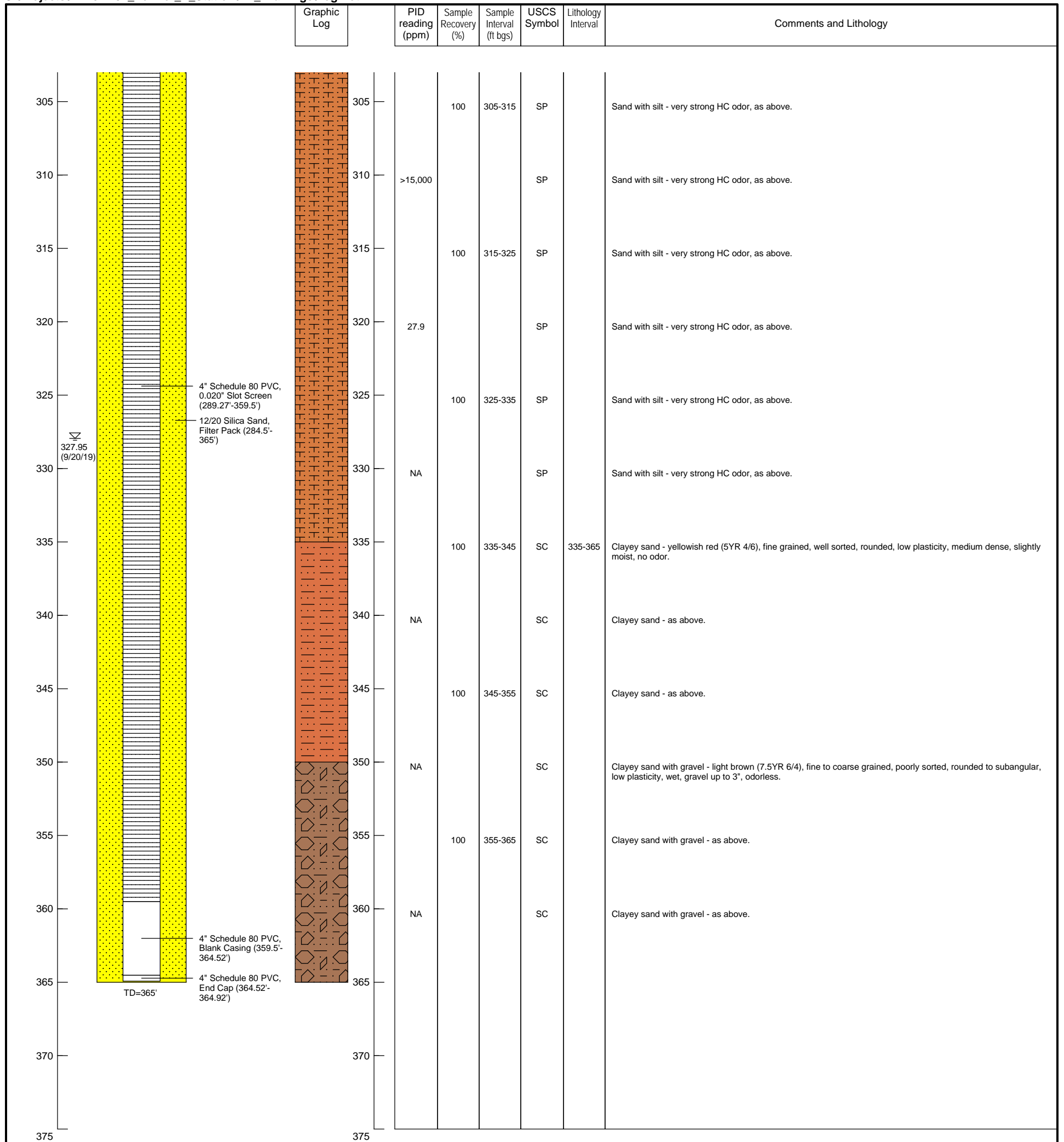
Geologist: P. Feltman
 Driller: Yellow Jacket Drilling
 Drilling start date: 8/19/19
 Well completion date: 8/30/19

Drilling method: Sonic
 Borehole diameter: 10.25"/9.5"
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**FORMER Y STATION
 CLOVIS, NEW MEXICO
 RW-3**



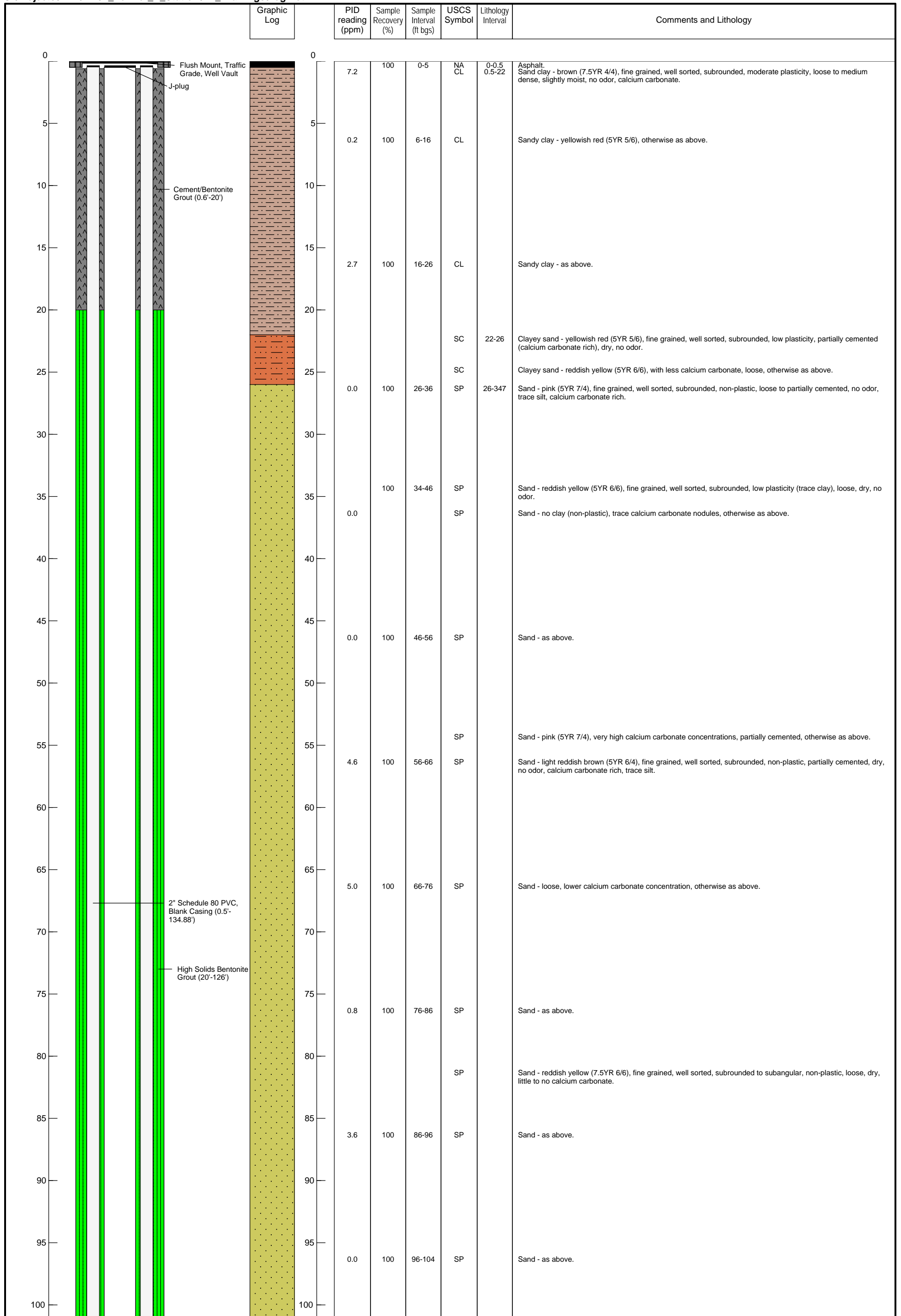


Geologist: P. Feltman
 Driller: Yellow Jacket Drilling
 Drilling start date: 8/19/19
 Well completion date: 8/30/19

Drilling method: Sonic
 Borehole diameter: 10.25"/9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1245486.71 Elevation: 4278.78
 Easting: 884251.49

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 RW-3**



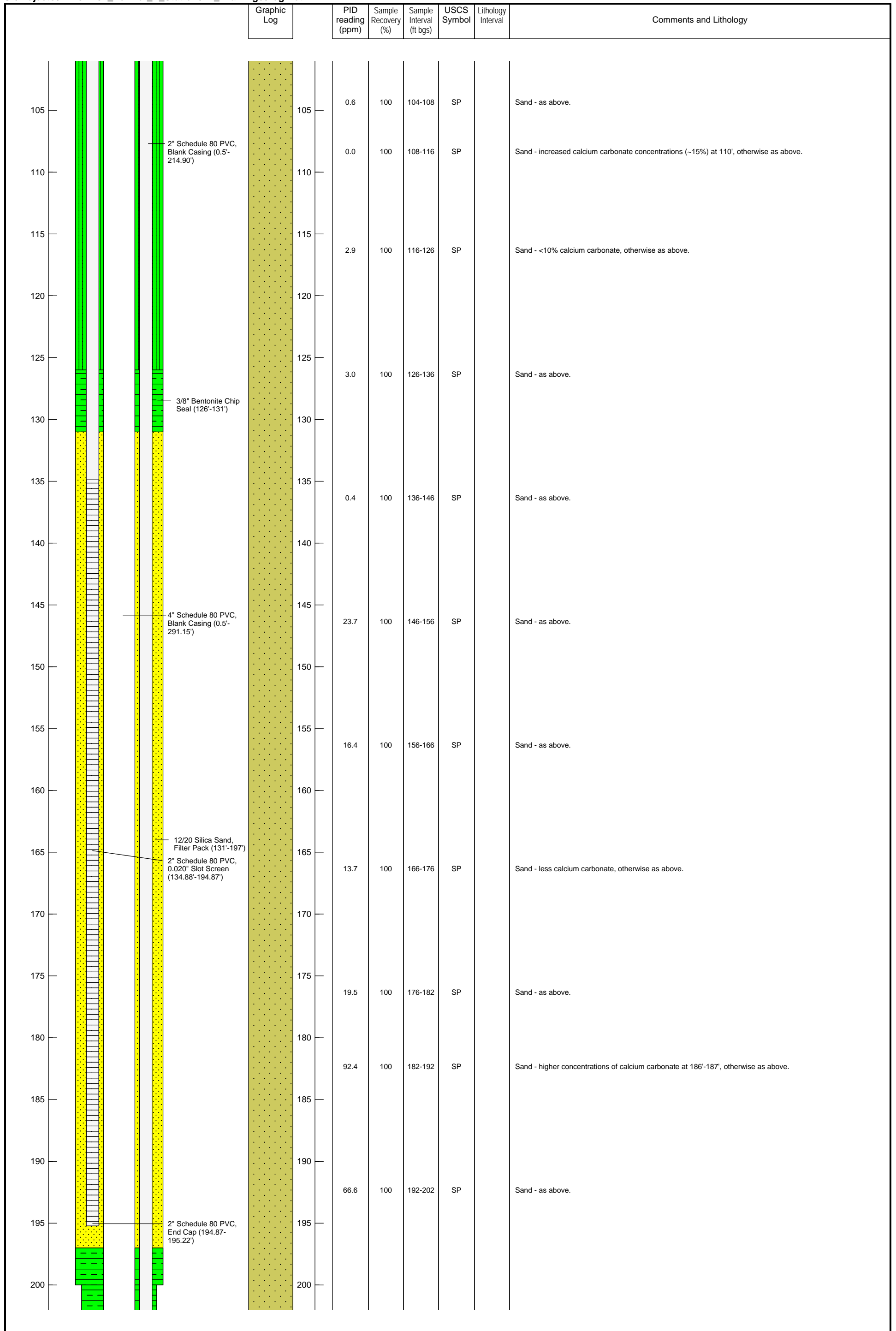
Geologist: H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 9/9/19
 Well completion date: 9/9/19

Drilling method: Sonic
 Borehole diameter: 10.25"/9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1245346.00 Elevation: 4278.84
 Easting: 884279.77

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 RW-4**





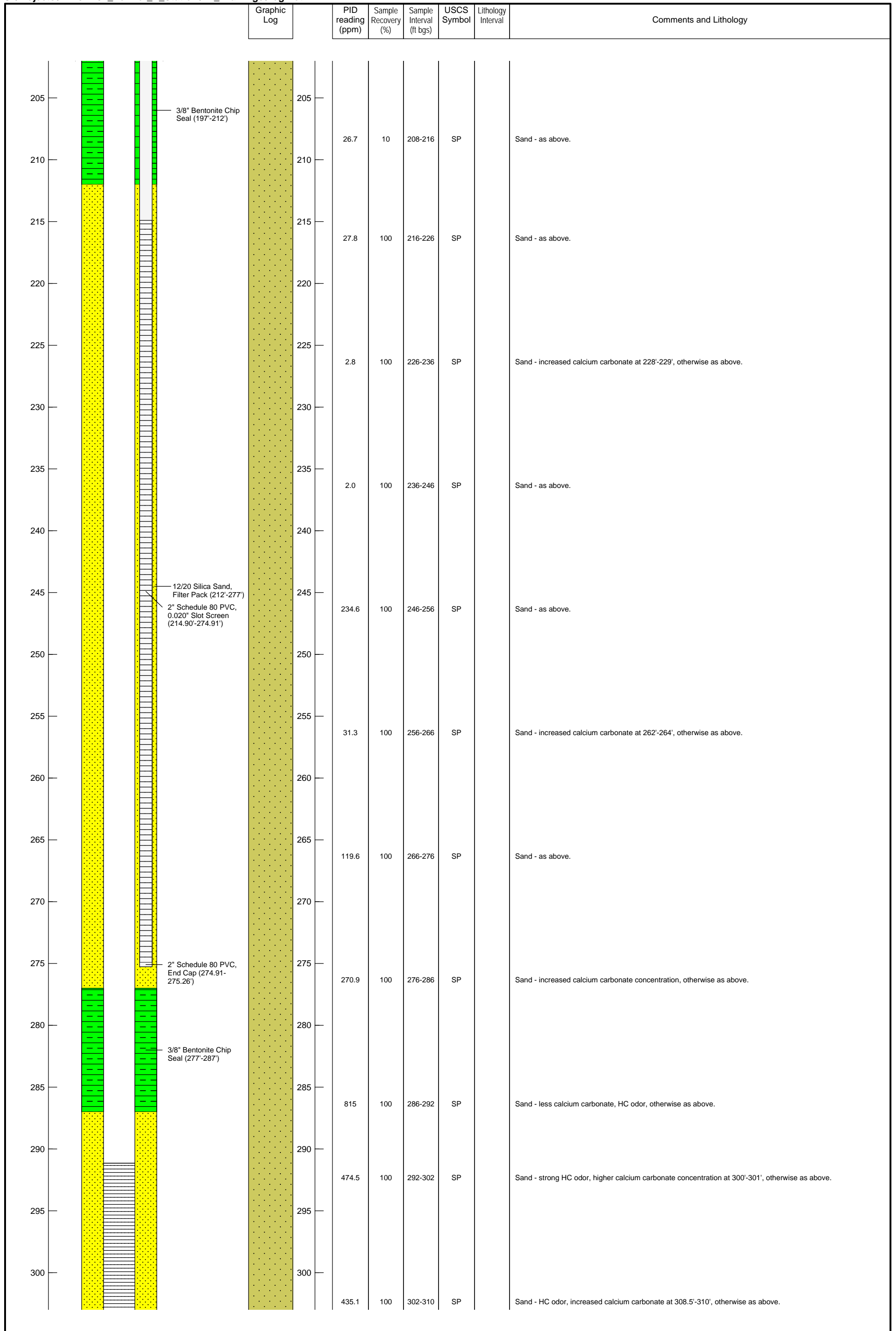
Geologist: H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 9/9/19
 Well completion date: 9/9/19

Drilling method: Sonic
 Borehole diameter: 10.25"/9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1245346.00 Elevation: 4278.84
 Easting: 884279.77

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 RW-4**





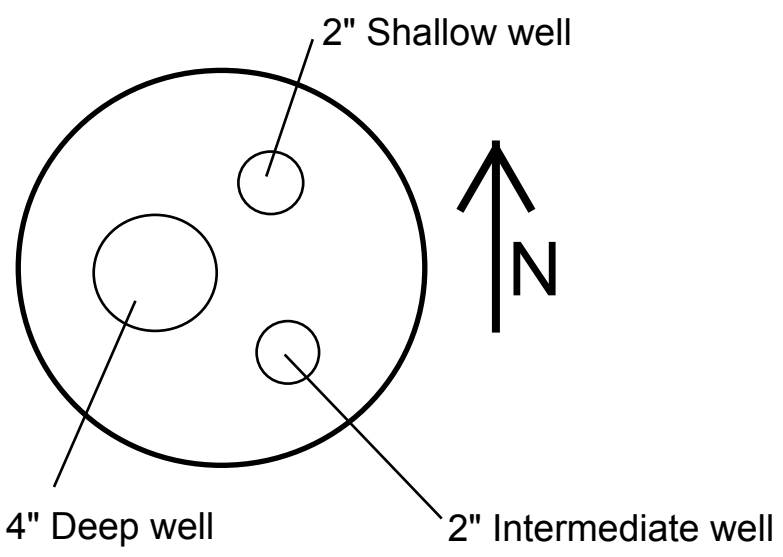
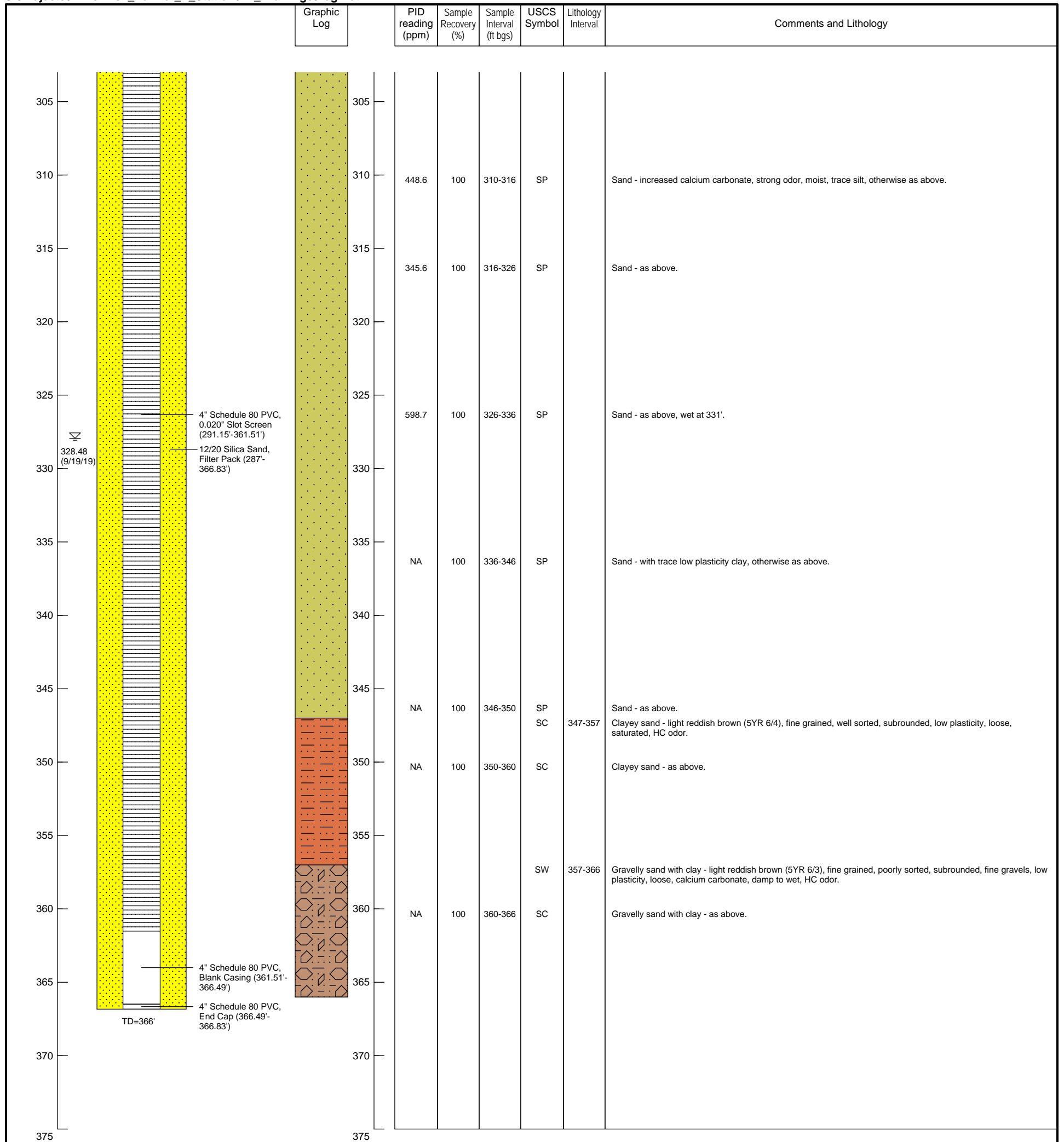
Geologist: H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 9/9/19
 Well completion date: 9/9/19

Drilling method: Sonic
 Borehole diameter: 10.25"/9.5"
 Sampling method: Sonic core

DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1245346.00 Elevation: 4278.84
 Easting: 884279.77

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 RW-4**





Geologist: H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 9/9/19
 Well completion date: 9/9/19

Drilling method: Sonic
 Borehole diameter: 10.25"/9.5"
 Sampling method: Sonic core

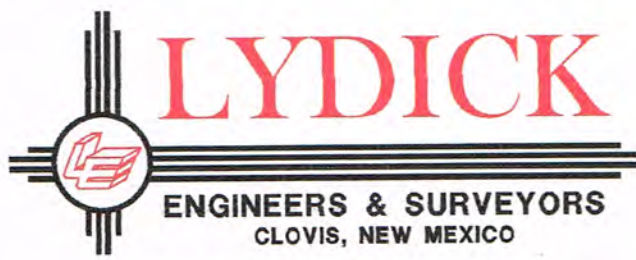
DTW= Depth to water measured below top of casing (feet)
 New Mexico State Plane East NAD83
 Northing: 1245346.00 Elevation: 4278.84
 Easting: 884279.77

**FORMER Y STATION
 CLOVIS, NEW MEXICO
 RW-4**



Appendix B

Survey Report

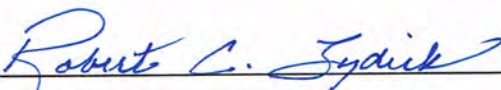


Robert C. Lydick
 Professional Engineer and Land Surveyor
 New Mexico-Texas-Oklahoma-Colorado

The following coordinates for monitor well **RW-1, RW-2, RW-3, RW-4, BW-7R, BW-8, MW-11, MW-12, MW-13, and MW-16**. The remaining coordinates are for three sumps and three electrical junction boxes (EJB) which all coordinates included in the table below are located in the **CITY OF CLOVIS, CURRY COUNTY, NEW MEXICO** are located on New Mexico State Plane East Zone Grid:

NAD 83:

Monitor Wells, Sumps, & Electrical Junction Boxes						
Description	Northing	Easting	Top of Split Well Cap	Top of Casing Elevation	Top of Vault Elevation	Casing Size
RW-1	1245546.620	884125.544	4279.558	4279.538	N/A	4-inch
RW-2	1245416.895	884141.210	4278.970	4278.950	N/A	4-inch
RW-3	1245486.497	884251.597	4278.534	4278.514	N/A	4-inch
RW-4	1245345.739	884280.005	4278.098	4278.078	N/A	4-inch
BW-7R	1245210.173	884291.255	4277.575	4277.555	N/A	5-inch
BW-8	1245377.136	884091.745	N/A	4277.888	N/A	4-inch
MW-11	1244812.368	884413.001	4273.831	4273.811	N/A	5-inch
MW-12	1245128.130	884520.260	4277.320	4277.300	N/A	5-inch
MW-13	1244960.698	884269.944	4275.346	4275.326	N/A	5-inch
MW-16	1244755.633	884811.107	4276.039	4276.019	N/A	5-inch
SUMP 1	1245387.298	884276.500	N/A	N/A	4279.494	N/A
SUMP 2	1245388.757	884147.195	N/A	N/A	4279.411	N/A
SUMP 3	1245145.963	884372.923	N/A	N/A	4277.959	N/A
EJB 1	1245349.202	884278.436	N/A	N/A	4279.152	N/A
EJB 2	1245392.673	884146.711	N/A	N/A	4279.503	N/A
EJB 3	1245144.362	884436.894	N/A	N/A	4278.034	N/A


 Robert C. Lydick P.E & L.S. No. 5955



Appendix C

Field Notes

Site: Former Y Station

Project No: DB18.1157

Staff: B. Constand / I. Torres / R. Villanueva
 (use value of no reading (NR) or not active (NA) if applicable for each entry)

Date/Time on site: 11/1/2023
13:56

off site: _____

SERVICE GAS METER:	NR
SERVICE ELECTRIC METER:	1266kWh

Groundwater Treatment Information			
Flow Total (GalX100)	3300	gal	

Oxidizer Main Screen									
Oxidizer Hours	NR	Dilution Valve (%)	0.0	OX Inlet Temp (°F)	1398	OX Outlet Temp (°F)	1336	NG Valve (%)	38.0
				Product Storage Tank (meas in ft using interface probe)		DTP	DTW	TD	

Sump Emptied?			
West Bore	NR	SVE 1	NR
East Bore	↓	SVE 2	↓
South	↓	SVE 3	↓

DPE Blower Information		Motor Control (Hours)		DPE Blower Information	
Inlet Vac (in Hg)	NR	DTA Blower	5.6	Hours	9.1
Flow (SCFM)	NR	MS Transfer Pump	0.0	Temp.(°F)	NR
		Discharge Pump	NR	Speed	NR

Water Extraction Field Measurements					HMI Screen			Notes
Time	Sample Point	Wellhead Total Flow	Flow Rate (gpm)	Pressure (PSI)	Well Level (ft abv. trs.)	Total Flow	Pump Hours	
NR	RW-1	NR	NR	NR	NR	NR	NR	
	RW-2	↓	↓	↓	↓	↓	↓	
	RW-3	↓	↓	↓	↓	↓	↓	
	RW-4	↓	↓	↓	↓	↓	↓	
	BW-7R	↓	↓	↓	↓	↓	↓	
	BW-8	↓	↓	↓	NA	NA	↓	
	MW-11	↓	↓	↓	↓	↓	↓	
	MW-12	↓	↓	↓	↓	↓	↓	
	MW-13	↓	↓	↓	↓	↓	↓	
✓	MW-16	↓	↓	↓	↓	↓	↓	

LABORATORY SAMPLES COLLECTED (list times):

14:05 FY OX EFF (vapor) 14:24 FY COMB INF (vapor) _____ DTA EFF (vapor)
 _____ FY TREATED EFF (water) _____ FY RAW (water) _____ (monthly sample)

EVAL. OF INFILTRATION GALLERY (check when completed & note any deficiencies below)

NOTES (leaks, corrosion, potential concerns, sampling problems, infiltration gallery leaks or erosion):

PID SN: 592-92669

Zero Cal = 0.0 ppm

100 ppm Isobutylenc = 99.9 ppm

Discharge Pump = 2.2 hours

DPE Blower = 9.1 hours

Date:

Time:

Vapor Field Measurements

Time	Sample Point	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Temp (°F)	Conc. (PPM)
	RW-1-S	NR	NR	NR	NR	NR
	RW-1-I					
	RW-1-D					
	RW-2-S					
	RW-2-I					
	RW-2-D					
	RW-3-S					
	RW-3-I					
	RW-3-D					
	RW-4-S					
	RW-4-I					
	RW-4-D					
	BW-7R					
	BW-8-S					
	BW-8-I					
	BW-8-D					
	MW-11					
	MW-12					
	MW-13					
	MW-16	↓	↓	↓	↓	↓

Manifold

Time	Sample Point	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Temp (°F)	Conc. (PPM)
NR	SVE 1	41.6	580.55	1663	NR	7332
	SVE 2	41.4	221.86	2542	NR	397.7
	SVE 3	NR				
	Comb.	42.1	902.17	402.17	NR	>15000
↓	Ox. Eff.					3193

↓
2585

Site: Former Y Station Project No: DB18.1157

Staff: B. Constand / I. Torres / R. Villaverde Date/Time on site: 11/2/2023 off site: _____
 (use value of no reading (NR) or not active (NA) if applicable for each entry)

SERVICE GAS METER: <u>3910 cf</u>	Groundwater Treatment Information	
SERVICE ELECTRIC METER: <u>1771 kWh</u>	Flow Total (GalX100) <u>19300 gal</u>	

Oxidizer Main Screen			
Oxidizer Hours <u>NR 31</u>	Dilution Valve (%) <u>0.0</u>	OX Inlet Temp (°F) <u>1456</u>	OX Outlet Temp (°F) <u>1438</u>
		NG Valve (%) <u>36.1</u>	
Product Storage Tank (meas in ft using interface probe)			DTP DTW TD

Sump Emptied?				DPE Blower Information		Motor Control (Hours)		DPE Blower Information	
West Bore <u>NR</u>	SVE 1 <u>NR</u>			Inlet Vac (in Hg) <u>42.20</u>	DTA Blower <u>25.9</u>	Hours <u>29.5</u>			
East Bore <u>↓</u>	SVE 2 <u>↓</u>			Flow (SCFM)	MS Transfer Pump <u>0.0</u>	Temp. (°F)			
South <u>↓</u>	SVE 3 <u>↓</u>				Discharge Pump <u>18.3</u>	Speed <u>45 Hz</u>			

Water Extraction Field Measurements					HMI Screen			
Time	Sample Point	Wellhead Total Flow	Flow Rate (gpm)	Pressure (PSI)	Well Level (ft abv. trs.)	Total Flow	Pump Hours	Notes
	RW-1	<u>NR</u>	<u>NR</u>	<u>NR</u>	<u>8.3</u>	<u>510</u>	<u>2.2</u>	
	RW-2	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>0.0</u>	<u>18</u>	<u>0.2</u>	
	RW-3	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>31.0</u>	<u>1235</u>	<u>2.9</u>	
	RW-4	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>26.1</u>	<u>1080</u>	<u>3.0</u>	
	BW-7R	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>19.3</u>	<u>743</u>	<u>3.4</u>	
	BW-8	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>NA</u>	<u>NA</u>		
	MW-11	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>29.8</u>	<u>248</u>	<u>0.4</u>	
	MW-12	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>NR</u>	<u>140</u>	<u>0.0</u>	
	MW-13	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>22.9</u>	<u>145</u>	<u>0.1</u>	
	MW-16	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>29.2</u>	<u>989</u>	<u>3.4</u>	

LABORATORY SAMPLES COLLECTED (list times):

NA FY OX EFF (vapor) NA FY COMB INF (vapor) NA DTA EFF (vapor)
NA FY TREATED EFF (water) NA FY RAW (water) (monthly sample)

EVAL. OF INFILTRATION GALLERY (check when completed & note any deficiencies below)

NOTES (leaks, corrosion, potential concerns, sampling problems, infiltration gallery leaks or erosion):

Date:

Time:

Vapor Field Measurements

Time	Sample Point	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Temp (°F)	Conc. (PPM)
	RW-1-S	NR	NR	NR	NR	NR
	RW-1-I	↓	↓	↓	↓	↓
	RW-1-D	29.1	58.71	2691	NR	2106
	RW-2-S	NR	NR	NR	↓	NR
	RW-2-I	↓	↓	↓	↓	↓
	RW-2-D	↓	↓	↓	↓	↓
	RW-3-S	↓	↓	↓	↓	↓
	RW-3-I	↓	↓	↓	↓	↓
	RW-3-D	28.7	38.74	1776	NR	1892
	RW-4-S	NR	NR	NR	↓	NR
	RW-4-I	↓	↓	↓	↓	↓
	RW-4-D	29.6	47.89	2195	NR	3479
	BW-7R	30.6	66.28	3038	NR	1786
	BW-8-S	NR	NR	NR	↓	NR
	BW-8-I	↓	↓	↓	↓	↓
	BW-8-D	29.7	47.14	2184	NR	1638
	MW-11	32.1	66.87	306.5	NR	8.2
	MW-12	NR	NR	NR	↓	NR
	MW-13	1.3	3.25	149	NR	76.9
	MW-16	34.7	108.35	4967	NR	113.0

Manifold

Time	Sample Point	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Temp (°F)	Conc. (PPM)
NR	SVE 1	47.3	931.88	2670	NR	2231
↓	SVE 2	47.1	267.16	3061	↓	311.8
↓	SVE 3	NR	NR	NR	↓	NR
↓	Comb.	48.0	761	2808	↓	1718
↓	Ox. Eff.					1374

Site: Former Y Station

Project No: DB18.1157

Staff: Herrmann, Ravici, Barnhill, Gelder

Date/Time on site: 11/3/23 off site: _____

(use value of no reading (NR) or not active (NA) if applicable for each entry)

SERVICE GAS METER:	353,000 CF
SERVICE ELECTRIC METER:	2460 kWh

Groundwater Treatment Information			
Flow Total (GalX100)	388		

Oxidizer Main Screen									
Oxidizer Hours	56	Dilution Valve (%)	0	OX Inlet Temp (°F)	1382	OX Outlet Temp (°F)	1320	NG Valve (%)	100
Product Storage Tank (meas in ft using interface probe)						DTP	DTW	TD	
						NR			→

Sump Emptied?			
West Bore	NR	SVE 1	NR
East Bore	↓	SVE 2	↓
South	↓	SVE 3	↓

DPE Blower Information		Motor Control (Hours)		DPE Blower Information	
Inlet Vac (in Hg)	NR	DTA Blower	51.7	Hours	53.8
Flow (SCFM)	↓	MS Transfer Pump Discharge Pump	0	Temp.(°F)	NR
			35.6	Speed	45 Hz

Water Extraction Field Measurements					HMI Screen			
Time	Sample Point	Wellhead Total Flow	Flow Rate (gpm)	Pressure (PSI)	Well Level (ft abv. trs.)	Total Flow	Pump Hours	Notes
915	RW-1	4400	0.45	88	NR	NR	NR	
738	RW-2	1400	0.82	NR	↓	↓	↓	
943	RW-3	12200	NR 4.6 →		↓	↓	↓	
	RW-4	11700	4.4	10	↓	↓	↓	
	BW-7R	4900	1.8	∅	↓	↓	↓	
	BW-8	NA	→		NA	NA		
	MW-11	5300	2.1	∅	NR	NR		
	MW-12	077	→		↓	↓	↓	
	MW-13	5300	2.0	∅	↓	↓	↓	
	MW-16	5450	2.0	∅	↓	↓	↓	

Between 1030-1110

LABORATORY SAMPLES COLLECTED (list times):

_____ FY OX EFF (vapor) _____ FY COMB INF (vapor) _____ DTA EFF (vapor)
 _____ FY TREATED EFF (water) _____ FY RAW (water) _____ (monthly sample)

EVAL. OF INFILTRATION GALLERY (check when completed & note any deficiencies below)

NOTES (leaks, corrosion, potential concerns, sampling problems, infiltration gallery leaks or erosion):

RW-4 deep pit around well casing, needs to be fixed, vault damaged
 RW-1 also raise gravel bed around casing
 MW-11 vault badly damaged

* RW-2 total flow at panel not being multiplied by 100

Date:

Time:

Vapor Field Measurements

Time	Sample Point	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Temp (°F)	Conc. (PPM)
NR	RW-1-S	29.0	NR	NR	NR	1773
	RW-1-I	29.7	↓	↓	↓	3065
	RW-1-D	29.8	55.11	2526	57.8	1829
	RW-2-S	30.0	NR	NR	NR	1719
	RW-2-I	29.4	↓	↓	↓	1658
	RW-2-D	29.1	30.85	1414	44.3	1075
	RW-3-S	30.4	NR	NR	NR	372.5
	RW-3-I	NR	↓	↓	↓	NR
	RW-3-D	23.1	30 45.99	2108	68.1	1730
	RW-4-S	34.8	NR	NR	NR	160.2
	RW-4-I	34.0	↓	↓	↓	1483
	RW-4-D	9.3	10.51	482	87.9	1552
	BW-7R	33.6	62.66	2872	86.1	638.1
	BW-8-S	26.6	NR	NR	NR	228.7
	BW-8-I	27.7	↓	↓	↓	478.5
	BW-8-D	33.8	54.66	2028	53.0	1694
	MW-11	37.6	64.31	2948	81.6	175.1
	MW-12	33.5	64.32	2948	69.2	302.5
	MW-13	NR	→	→	→	→
↓	MW-16	34.0	97.67	4477	75.0	127.1

Manifold

Time	Sample Point	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Temp (°F)	Conc. (PPM)
	SVE 1	NR	NR	NR	NR	NR
	SVE 2	↓	↓	↓	↓	↓
	SVE 3	↓	↓	↓	↓	↓
	Comb.	↓	↓	↓	↓	↓
	Ox. Eff.					NR

Site: Former Y Station

Project No: DB18.1157

Staff: B. Constand + R. Villanueva

Date/Time on site: 11/3/23 15:08 off site: 19:13

(use value of no reading (NR) or not active (NA) if applicable for each entry)

SERVICE GAS METER: <u>0366</u>	Groundwater Treatment Information		
SERVICE ELECTRIC METER: <u>2501</u>	Flow Total (GalX100)	<u>40600</u>	

Oxidizer Main Screen									
Oxidizer Hours	<u>58</u>	Dilution Valve (%)	<u>0.0</u>	OX Inlet Temp (°F)	<u>1402</u>	OX Outlet Temp (°F)	<u>1345</u>	NG Valve (%)	<u>51.5</u>
Product Storage Tank (meas in ft using interface probe)							DTP	DTW	<u>3.90</u>

Sump Emptied?			
West Bore	<u>NR</u>	SVE 1	<u>NR</u>
East Bore	<u>↓</u>	SVE 2	<u>↓</u>
South	<u>↓</u>	SVE 3	<u>↓</u>

DPE Blower Information		Motor Control (Hours)		DPE Blower Information	
Inlet Vac (in Hg)	<u>47.3</u>	DTA Blower	<u>53.3</u>	Hours	<u>55.4</u>
Flow (SCFM)	<u>762</u>	MS Transfer Pump Discharge Pump	<u>0.0</u>	Temp. (°F)	<u>103.0</u>
			<u>36.5</u>	Speed	<u>45.24Hz</u>

Time	Water Extraction Field Measurements				HMI Screen			Notes
	Sample Point	Wellhead Total Flow	Flow Rate (gpm)	Pressure (PSI)	Well Level (ft abv. trs.)	Total Flow	Pump Hours	
	RW-1	<u>4000</u>	<u>2.0</u>	<u>NR</u>	<u>24.6</u>	<u>4877</u>	<u>32.9</u>	<u>1.3 gpm relook 1.4 gpm relook</u>
	RW-2	<u>1000</u>	<u>2.0</u>	<u>10</u>	<u>23.6</u>	<u>18</u>	<u>32.1</u>	
	RW-3	<u>14000</u>	<u>3.0</u>	<u>NR</u>	<u>30.2</u>	<u>13617</u>	<u>50.6</u>	
	RW-4	<u>13000</u>	<u>3.5</u>	<u>10</u>	<u>22.6</u>	<u>12785</u>	<u>48.6</u>	
	BW-7R	<u>5100</u>	<u>NR</u>	<u>NR</u>	<u>27.5</u>	<u>5240</u>	<u>48.1</u>	<u>Pump off</u>
	BW-8	<u>NR</u>	<u>NR</u>	<u>NR</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>SVE only well</u>
	MW-11	<u>6200</u>	<u>2.1</u>	<u>∅</u>	<u>23.2</u>	<u>5884</u>	<u>47.2</u>	
	MW-12	<u>177</u>	<u>NR</u>	<u>∅</u>	<u>26.5</u>	<u>192</u>	<u>0.1</u>	
	MW-13	<u>NR</u>	<u>→</u>	<u>∅</u>	<u>19.5</u>	<u>5655</u>	<u>46.4</u>	
	MW-16	<u>6000</u>	<u>1.5</u>	<u>∅</u>	<u>29.1</u>	<u>6102</u>	<u>51.1</u>	

LABORATORY SAMPLES COLLECTED (list times):

/ FY OX EFF (vapor)

/ FY TREATED EFF (water)

/ FY COMB INF (vapor)

/ FY RAW (water)

/ DTA EFF (vapor)

/ (monthly sample)

EVAL. OF INFILTRATION GALLERY (check when completed & note any deficiencies below)

NOTES (leaks, corrosion, potential concerns, sampling problems, infiltration gallery leaks or erosion):

Date:

Time:

Vapor Field Measurements

Time	Sample Point	Vacuum (in H2O)	Air Flow (scfm)	Velocity (fps)	Temp (°F)	Conc. (PPM)
NR	RW-1-S	28.6	NR	→	NR	1800
	RW-1-I	29.5	NR	→		2482
	RW-1-D	29.6	53.52	2453		1614
	RW-2-S	30.4	NR	→		334
	RW-2-I	28.6	NR	→		799.8
	RW-2-D	30.4	29.24	1340		1374
	RW-3-S	31.0	NR	→		338.6
	RW-3-I	NR	NR	→		NR
	RW-3-D	32.4	41.64	1909		399.1
	RW-4-S	33.4	NR	→		136.1
	RW-4-I	32.7	NR	→		1577
	RW-4-D	33.4	48.30	2214		419.6
	BW-7R	31.0	61.71	2829		57.4
	BW-8-S	27.2	NR	→		269.7
	BW-8-I	20.1	NR	→		267.5
	BW-8-D	29.8	3997	1832		1590
	MW-11	34.5	62.36	2859		425.7
	MW-12	31.9	62.07	2845		273.2
	MW-13	NR	NR	→		NR
↓	MW-16	31.8	98.96	4536	↓	↓

Manifold

Time	Sample Point	Vacuum (in H2O)	Air Flow (scfm)	Velocity (fps)	Temp (°F)	Conc. (PPM)
	SVE 1	44.1	675.41	1935	NR	1505
	SVE 2	43.8	287.77	3298		260.7
	SVE 3	NR				→
	Comb.	44.4	1005.29	2880	↓	1446
	Ox. Eff.					481.4

Site: Former Y Station

Project No: DB18.1157

Staff: Alex Nuñez-Thompson

Date/Time on site: 11/6/23 1416

off site: _____

(use value of no reading (NR) or not active (NA) if applicable for each entry)

SERVICE GAS METER: <u>919,000 ft³</u>
SERVICE ELECTRIC METER: <u>4426 kWh</u>

Groundwater Treatment Information		
Flow Total (GalX100)	<u>9</u>	<u>03</u>

Screen says
957(x100)

Oxidizer Main Screen									
Oxidizer Hours	<u>131</u>	Dilution Valve (%)	<u>0</u>	OX Inlet Temp (°F)	<u>1399</u>	OX Outlet Temp (°F)	<u>1349</u>	NG Valve (%)	<u>53</u>
Product Storage Tank (meas in ft using interface probe)						DTP	DTW	TD	

Sump Emptied?			
West Bore	<u>NR</u>	SVE 1	<u>NR</u>
East Bore	<u>↓</u>	SVE 2	<u>↓</u>
South	<u>↓</u>	SVE 3	<u>↓</u>

DPE Blower Information		Motor Control (Hours)		DPE Blower Information	
Inlet Vac (in Hg)	<u>51.4</u>	DTA Blower	<u>126.1</u>	Hours	<u>128.4</u>
Flow (SCFM)	<u>~740</u>	MS Transfer Pump	<u>0</u>	Temp.(°F)	<u>106.7</u>
		Discharge Pump	<u>128.4</u>	Speed	<u>45Hz</u>

Water Extraction Field Measurements				HMI Screen			
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Time	Sample Point	Wellhead Total Flow	Flow Rate (gpm)	Pressure (PSI)	Well Level (ft abv. trs.)	Total Flow	Pump Hours	Notes
16:15	RW-1	<u>107</u>	<u>1.5</u>	<u>85</u>	<u>19.6</u>	<u>10820</u>	<u>105.8</u>	<u>S/N 20 006378-NL</u>
17:45	RW-2	<u>25</u>	<u>0.63</u>	<u>~10</u>	<u>24.4</u>	<u>18</u>	<u>105.1</u>	<u>S/N 20 004227-NL</u>
17:05	RW-3	<u>35</u>	<u>4.6</u>	<u>4</u>	<u>30.1</u>	<u>33230</u>	<u>123.5</u>	<u>S/N 20 006383-NL</u>
17:30	RW-4	<u>317</u>	<u>4.8</u>	<u>0</u>	<u>20.6</u>	<u>18296</u>	<u>121.0</u>	
	BW-7R				<u>27.6</u>	<u>5240</u>	<u>48.1</u>	
1803	BW-8	<u>NA</u>			<u>NA</u>	<u>NA</u>	<u>NA</u>	
1605	MW-11	<u>155</u>	<u>2.1</u>	<u>0</u>	<u>22.7</u>	<u>15566</u>	<u>120.1</u>	<u>S/N 20 006379-NL</u>
	MW-12				<u>26.5</u>	<u>192</u>	<u>0.1</u>	
1617	MW-13	<u>149</u>	<u>1.9</u>	<u>0</u>	<u>20.3</u>	<u>14789</u>	<u>119.3</u>	<u>S/N 20 004229-NL</u>
1549	MW-16	<u>143</u>	<u>1.85</u>	<u>0</u>	<u>29.1</u>	<u>15172</u>	<u>124.0</u>	<u>S/N 20 006384-NL</u>

LABORATORY SAMPLES COLLECTED (list times):

_____ FY OX EFF (vapor) _____ FY COMB INF (vapor) _____ DTA EFF (vapor)
 _____ FY TREATED EFF (water) _____ FY RAW (water) _____ (monthly sample)

EVAL. OF INFILTRATION GALLERY (check when completed & note any deficiencies below)

NOTES (leaks, corrosion, potential concerns, sampling problems, infiltration gallery leaks or erosion):

Date: 11/6/23

Time: 15:49

Vapor Field Measurements

Time	Sample Point	Vacuum (in H2O)	Air Flow (scfm)	Velocity (fps)	Temp (°F)	Conc. (PPM)
	RW-1-S	NR				→
	RW-1-I	NR				→
18:09	RW-1-D	30.8	NR			1970
	RW-2-S	NR				→
	RW-2-I	NR				→
17:50	RW-2-D	31.5	NR	NR	NR	1269
	RW-3-S	NR				→
	RW-3-I	NR				→
16:55	RW-3-D	33.0	NR	NR	NR	1398
17:24	RW-4-S	36.6	NR	NR	NR	204.9
17:20	RW-4-I	35.8	NR	NR	NR	1365
17:20	RW-4-D	34.3	NR	NR	NR	1376
	BW-7R					
	BW-8-S	NR				→
	BW-8-I	NR				→
17:56	BW-8-D	30.7	NR			1631
16:09	MW-11	35.2	NR	NR	NR	3.5
	MW-12					
16:22	MW-13	32.9	NR	NR	NR	1.8
15:49	MW-16	33.2	NR	NR	NR	7.4

Pre-calibration

Pre-calibration

Pre-calibration

Manifold

Time	Sample Point	Vacuum (in H2O)	Air Flow (scfm)	Velocity (fps)	Temp (°F)	Conc. (PPM)
	SVE 1	NR				→
	SVE 2	NR				→
	SVE 3	NR				→
	Comb.	NR				→
	Ox. Eff.					

Site: Former Y Station Project No: DB18.1157
 Staff: A. Nuñez-Thompson Date/Time on site: 11/8/23 7:10 off site: _____
 (use value of no reading (NR) or not active (NA) if applicable for each entry)

@11:35 AM

SERVICE GAS METER: <u>1,308,000 CF</u>	Groundwater Treatment Information		
SERVICE ELECTRIC METER: <u>5592 kWh</u>	Flow Total (GalX100)	<u>1198</u>	

Oxidizer Main Screen									
Oxidizer Hours	<u>175</u>	Dilution Valve (%)	<u>0.0</u>	OX Inlet Temp (°F)	<u>1404</u>	OX Outlet Temp (°F)	<u>1367</u>	NG Valve (%)	<u>55.9</u>
Product Storage Tank (meas in ft using interface probe)						DTP	DTW	TD	
						<u>NR</u>			<u>→</u>

Sump Emptied?			
West Bore	<u>NO</u>	SVE 1	<u>NO</u>
East Bore	<u>↓</u>	SVE 2	<u>↓</u>
South	<u>✓</u>	SVE 3	<u>✓</u>

DPE Blower Information		Motor Control (Hours)		DPE Blower Information	
Inlet Vac (in Hg)	<u>50</u>	DTA Blower	<u>170.5</u>	Hours	<u>172.9</u>
Flow (SCFM)	<u>750</u>	MS Transfer Pump	<u>0.0</u>	Temp. (°F)	<u>105.5</u>
		Discharge Pump	<u>108.4</u>	Speed	<u>45 Hz</u>

@11:45

Water Extraction Field Measurements					HMI Screen			Notes
Time	Sample Point	Wellhead Total Flow	Flow Rate (gpm)	Pressure (PSI)	Well Level (ft abv. trs.)	Total Flow	Pump Hours	
<u>8:30</u>	<u>RW-1</u>	<u>14300</u>	<u>4.6</u>	<u>40</u>	<u>20.9</u>	<u>15133</u>	<u>148.9</u>	<u>Hinge on meter cap broken</u>
<u>7:26</u>	<u>RW-2</u>	<u>3900</u>	<u>0.62</u>	<u>10</u>	<u>24.0</u>	<u>153</u>	<u>149.4</u>	
<u>10:32</u>	<u>RW-3</u>	<u>44800</u>	<u>4.5</u>	<u>10</u>	<u>30.1</u>	<u>45149</u>	<u>167.8</u>	<u>20 006383 NL</u>
<u>9:01</u>	<u>RW-4</u>	<u>43100</u>	<u>5.2</u>	<u>5</u>	<u>17.7</u>	<u>18436</u>	<u>165.4</u>	<u>20 006382 NL</u>
<u>10:21</u>	<u>BW-7R</u>	<u>5100</u>	<u>0</u>	<u>0</u>	<u>27.5</u>	<u>5240</u>	<u>48.1</u>	<u>20 006376 NL</u>
<u>NR</u>	<u>BW-8</u>	<u>NA</u>			<u>NA</u>	<u>NA</u>		
<u>9:43</u>	<u>MW-11</u>	<u>20600</u>	<u>2.0</u>	<u>0</u>	<u>22.7</u>	<u>21055</u>	<u>164.4</u>	<u>20 006379 NL</u>
<u>10:04</u>	<u>MW-12</u>	<u>200</u>	<u>0</u>	<u>40</u>	<u>26.4</u>	<u>192</u>	<u>0.1</u>	<u>20 006585 NL</u>
<u>9:54</u>	<u>MW-13</u>	<u>18700</u>	<u>1.24</u>	<u>0</u>	<u>21.5</u>	<u>18831</u>	<u>163.6</u>	
<u>9:29</u>	<u>MW-16</u>	<u>18800</u>	<u>1.8</u>	<u>0</u>	<u>29.7</u>	<u>20362</u>	<u>167.7</u>	<u>ARV leaking @ time</u>

LABORATORY SAMPLES COLLECTED (list times):
 _____ / FY OX EFF (vapor) _____ / FY COMB INF (vapor) _____ / DTA EFF (vapor)
 _____ / FY TREATED EFF (water) _____ / FY RAW (water) _____ / (monthly sample)

EVAL. OF INFILTRATION GALLERY (check when completed & note any deficiencies below) _____

NOTES (leaks, corrosion, potential concerns, sampling problems, infiltration gallery leaks or erosion):

Date: 11/8/23

Time: 7:26

Vapor Field Measurements

Time	Sample Point	Vacuum (in H2O)	Air Flow (scfm)	Velocity (fps)	Temp (°F)	Conc. (PPM)
8:21	RW-1-S	32.1	NR	NR	NR	1445
8:21	RW-1-I	32.3				3063
8:21	RW-1-D	32.5				3321
7:33	RW-2-S	37.0				2016
7:27	RW-2-I	40.8				4609
7:27	RW-2-D	44.5				1751
10:38	RW-3-S	34.2				235.8
10:38	RW-3-I	34.2				2128
10:38	RW-3-D	34.1				1680
8:51	RW-4-S	40.8				232.4 232.4
8:51	RW-4-I	39.1				2297
8:51	RW-4-D	38.2				1819
10:22	BW-7R	33.1				462.7
7:51	BW-8-S	32.8				316.1
7:50	BW-8-I	32.0				1051
7:51	BW-8-D	32.5				1854 Vacuum: 32.5
9:46	MW-11	38.6				86.2
10:06	MW-12	7.0				148.3
9:57	MW-13	35.9				58.1
9:22	MW-16	35.3	↓	↓	↓	249.1

Manifold

Time	Sample Point	Vacuum (in H2O)	Air Flow (scfm)	Velocity (fps)	Temp (°F)	Conc. (PPM)
11:51	SVE 1	44.9	NR	NR	NR	1804
11:51	SVE 2	44.4	↓	↓	↓	311.7
11:51	SVE 3	44.9	↓	↓	↓	70.2
11:51	Comb.	45.3	↓	↓	↓	1564
11:51	Ox. Eff.					399.2

Site: Former Y Station Project No: DB18.1157
 Staff: A. Nunez-Thompson Date/Time on site: 11/16/23 2:10 off site: _____
 Fill out all fields. Enter no reading (NR) or not active (NA) if applicable for each field. Compound

SERVICE GAS METER: <u>3,394,000</u>	Groundwater Treatment Information		
SERVICE ELECTRIC METER: <u>10447 kWh</u>	Flow Total (GalX100) <u>2219</u>	Flow Rate (gpm) <u>18</u>	Total (HMI)

Oxidizer Main Screen			
Oxidizer Hours <u>368</u>	Dilution Valve (%) <u>0.0</u>	OX Inlet Temp (°F) <u>1398</u>	OX Outlet Temp (°F) <u>1346</u>
		NG Valve (%) <u>64.5</u>	
		Product Storage Tank (meas in ft using interface probe)	DTW <u>NR</u>
			TD <u>NR</u>

Sump Emptied? Record gallons			DPE Blower Information		Motor Control (Hours)
West Bore		SVE 1	Inlet Vac (in Hg) <u>48.4</u>	Hours <u>366.4</u>	DTA Blower <u>340.0</u>
East Bore		SVE 2	Flow (SCFM) <u>766</u>	Temp. (°F) <u>101.7</u>	MS Transfer <u>0.0</u>
South		SVE 3		Speed	Discharge Pump <u>200.4</u>

GW Extraction Field Obs					GW Extraction HMI Screen			
Well	Time	Pressure (PSI)	Flow Rate (gpm)	Total Flow (gal)	Time	Well Level (ft abv. trs.)	Total (gal)	Pump Hours
RW-1	12:03	100	1.33	5725470 9000	2:17	21.9	23658	319
RW-2	8:34	10	0.28	9000		26.6	9089	319.4
RW-3	9:41	5	4.8	91200		30.3	92531	337.9
RW-4	10:09	10	5.6	98200		20.8	98200	335.4
BW-7R	10:42	0	0	5100		22.1	5278	48.3
MW-11-12	11:42	0	0	187		22.9	192	0.1
MW-12-11	1:09	0	2.48	43320		26.7	43496	334.5
MW-13	12:11	0	1.95	23970		19.8	24262	333.7
MW-16	1:26	0	1.7	36130		22.0	36224	337.6

Meter off
 Pump meter off
 H-Pump off

LABORATORY SAMPLES COLLECTED (list times):
16:56 FY OX EFF (vapor) 16:45 FY COMB INF (vapor) 16:54 DTA EFF (vapor)
16:26 FY TREATED EFF (water) 16:15 FY RAW (water) (monthly sample)

NOTES (leaks, corrosion, potential concerns, inoperative gauges or valves, sampling problems):
 RW-1 @ 11:30 : 23470 gal, 0 gpm, 100psi Valve creeps closed. Throttled to achieve 1.33 gpm @ 12:03
 Dwyer Installed: RW-3, RW-4, BW-7R, MW-11, MW-13, MW-16
 Dwyer Missing: MW-12, MW-1, MW-2
 RW-4 throttled to 4.6 gpm @ 40psi after talking to Jason
 Serial number of eff meter: 20 004230-NL

Date: 11/16/23

Time: Start @ 7:39 AM

Vapor Field Measurements

Time	Sample Point	Conc. (PPM)	Air Flow (scfm)	Vacuum (in H2O)	Velocity (fps)	Temp (°F)
7:39	RW-1-S	779.2	45.21	31.2	31.2 2080	
7:45	RW-1-I	1729	31.16	31.9	31.9 1439	
7:57	RW-1-D	1468	56.2	32.2	32.2 2577	56.1
8:20	RW-2-S	1733	50.34	33.4	2307	54
8:20	RW-2-I	2129	41.48	32.5	1901	53.7
8:20	RW-2-D	1033	29.96	32.7	1373	53.9
9:45 8:42	RW-3-S	396.7	37.11	32.0 35.2	1701	62.3
9:45 8:42	RW-3-I	782.2	31.46	35.7	1442	62.1
9:45 8:42	RW-3-D	1792	39.76	35.6	1822	62.2
10:20	RW-4-S	170.7	42.58	36.1	1952	65.6
10:20	RW-4-I	513.0	47.75	37.3	2189	65.5
10:20	RW-4-D	1727	46.46	36.2	2130	64.8
10:45	BW-7R	410.8	59.87	32.5	2744	66.4
8:42	BW-8-S	438.0	60.26	32.0	2762	53.6
8:42	BW-8-I	735.6	41.34	33.2	1895	53.1
8:42	BW-8-D	1829	38.51	33.2	1765	53.3
12:12	MW-11/MW-13	77.0	64.97	33.0	2978	76.0
11:42	MW-12	316.1	63.70	32.1	2920	72.5
1:04 12:12	MW-13/MW-11	49.3	63.82	35.3	2925	80.4
	MW-16	37.7	102.43	31.4	4695	78.4

Manifold

Time	Sample Point	Conc. (PPM)	Air Flow (scfm)	Vacuum (in H2O)	Velocity (fps)	Temp (°F)
16:32	SVE 1	168.7 1703	814.73	44.1	2334	72.5
	SVE 2	229.8	292.3	43.6	3349	72.4
	SVE 3	168.7	65.92	43.2	3021	72.7
	Comb.	1368	1007.55	44.8	2886	72.5
	Ox. Eff.	219.2				MM

Site: Former Y Station

Project No: DB18.1157

Staff: B. Constand

Date/Time on site: 11/21/23 13:47 off site: 19:20 11/21

Fill out all fields. Enter no reading (NR) or not active (NA) if applicable for each field.

SERVICE GAS METER: 04870

SERVICE ELECTRIC METER: 013784

Groundwater Treatment Information					Total: <u>20</u>
Flow Total (GalX100)	<u>3009 HMI</u>	Flow Rate (gpm)	<u>11.71</u>	Total (HMI)	<u>03013</u>

Oxidizer Main Screen									
Oxidizer Hours	<u>485</u>	Dilution Valve (%)	<u>0.0</u>	OX Inlet Temp (°F)	<u>1401</u>	OX Outlet Temp (°F)	<u>1351</u>	NG Valve (%)	<u>63.3</u>

Product Storage Tank (meas in ft using interface probe)		DTP	DTW	TD
		-	-	<u>3.89'</u>

Sump Emptied? Record gallons			
West Bore	<u>No</u>	SVE 1	<u>No</u>
East Bore		SVE 2	
South		SVE 3	

DPE Blower Information				Motor Control (Hours)	
Inlet Vac (in Hg)	<u>53.1 in Hg</u>	Hours	<u>486.6</u>	DTA Blower	<u>460.8</u>
Flow (SCFM)	<u>762</u>	Temp. (°F)	<u>103.0</u>	MS Transfer	<u>0.0</u>
		Speed	<u>45.24 Hz</u>	Discharge Pump	<u>271.7</u>

GW Extraction Field Obs					GW Extraction HMI Screen			
Well	Time	Pressure (PSI)	Flow Rate (gpm)	Total Flow (gal)	Time	Well Level (ft abv. trs.)	Total (gal)	Pump Hours
RW-1	<u>7:53</u>	<u>96</u>	<u>1.6</u>	<u>00355</u>	<u>14:24</u>	<u>20.6</u>	<u>33950</u>	<u>439.1</u>
RW-2	<u>17:52</u>	<u>11</u>	<u>0.12</u>	<u>00108</u>		<u>26.3</u>	<u>10788</u>	<u>439.6</u>
RW-3	<u>16:34</u>	<u>8</u>	<u>4.6</u>	<u>01273</u>		<u>30.0</u>	<u>126724</u>	<u>458.0</u>
RW-4	<u>16:08</u>	<u>42</u>	<u>4.3</u>	<u>00918</u>		<u>20.1</u>	<u>98200</u>	<u>455.5</u>
BW-7R	<u>15:54</u>	<u>0</u>	<u>2.4</u>	<u>001124</u>		<u>21.9</u>	<u>12334</u>	<u>109.5</u>
MW-11	<u>16:52</u>	<u>0</u>	<u>2.7</u>	<u>00625</u>		<u>22.0</u>	<u>62089</u>	<u>454.6</u>
MW-12	<u>19:13</u>	<u>0</u>	<u>well pump off</u>	<u>00002</u>		<u>26.3</u>	<u>192</u>	<u>0.1</u>
MW-13	<u>17:08</u>	<u>0</u>	<u>2.3</u>	<u>00414</u>		<u>19.1</u>	<u>40991</u>	<u>453.8</u>
MW-16	<u>18:58</u>	<u>0</u>	<u>1.8</u>	<u>00491</u>		<u>20.9</u>	<u>48639</u>	<u>457.7</u>

LABORATORY SAMPLES COLLECTED (list times):

14:58 FY OX EFF (vapor) 15:08 FY COMB INF (vapor) X DTA EFF (vapor)
08:40 ^{1/22}FY TREATED EFF (water) 08:31 ^{1/22}FY RAW (water) (monthly sample)

NOTES (leaks, corrosion, potential concerns, inoperative gauges or valves, sampling problems):

Date: 11/21/23 & 11/22/23 (For RW-1 only)

Time: 14:37 → 19:21 7:26 → 9:00

Vapor Field Measurements

Time	Sample Point	Conc. (PPM)	Air Flow (scfm)	Vacuum (in H2O)	Velocity (fps)	Temp (°F)
7:38 ^{11/22}	RW-1-S	522.2	52.60	28.8	2411	34.7
	RW-1-I	1177	33.10	29.2	1517	40.8
	RW-1-D	2542	52.87	29.0	2423	36.8
17:38	RW-2-S	1755	49.21	33.7	2256	54.5
	RW-2-I	2517	42.22	32.8	1935	52.7
	RW-2-D	1155	28.70	33.0	1315	53.1
16:20	RW-3-S	74.0	37.49	34.8	1718	60.0
	RW-3-I	632.3	31.64	34.8	1450	60.4
	RW-3-D	2384	39.93	34.7	1830	60.4
16:00	RW-4-S	74.5	41.35	37.7	1895	60.5
	RW-4-I	511.8	49.89	36.7	2287	59.8
	RW-4-D	2303	48.98	36.4	2245	59.1
15:45	BW-7R	250.3	59.92	33.8	2746	60.4
17:17	BW-8-S	102.8	64.96	32.1	2978	54.8
	BW-8-I	311.5	41.98	32.1	1924	53.8
	BW-8-D	1995	39.46	32.1	1809	54.1
16:46	MW-11	59.0	59.82	36.9	2742	57.7
19:08	MW-12	245.7 → 32.6	64.22	32.6	2944	50.3
17:05	MW-13	29.8	63.24	34.5	2899	55.8
18:52	MW-16	61.3	96.45	32.6	4421	49.5

Manifold

Time	Sample Point	Conc. (PPM)	Air Flow (scfm)	Vacuum (in H2O)	Velocity (fps)	Temp (°F)
15:01	SVE 1	1885	843.17	45.9	2416	58.3
15:03	SVE 2	194.6	303.51	45.7	3478	57.2
14:37	SVE 3	9.0	64.34	45.2	2949	59.0
15:08	Comb.	1523	1031.29	46.9	2954	59.9
14:58	Ox. Eff.	170.5				?

15:12 DTA EFF 75.6

Site: Former Y Station

Project No: DB18.1157

Staff: Alex Nunez-Thompson

Date/Time on site: 11/27/23 1:16PM off site: 17:23

Fill out all fields. Enter no reading (NR) or not active (NA) if applicable for each field.

SERVICE GAS METER: 6,753,000 cu ft
 SERVICE ELECTRIC METER: 17817 kWh

Groundwater Treatment Information			
Flow Total (GalX100)	<u>3858</u>	Flow Rate (gpm)	<u>18.8</u>
Total (HMI) ^{x100}	<u>3860</u>		

Oxidizer Main Screen					
Oxidizer Hours	<u>633</u>	Dilution Valve (%)	<u>0.0</u>	OX Inlet Temp (°F)	<u>1397</u>
				OX Outlet Temp (°F)	<u>1346</u>
				NG Valve (%)	<u>66.9</u>
Product Storage Tank (meas in ft using interface probe)				DTP	DTW
				<u>NR</u>	<u>NR</u>
				TD	<u>NR</u>

Sump Emptied? Record gallons			
West Bore	<u>No</u>	SVE 1	<u>No</u>
East Bore	<u>↓</u>	SVE 2	<u>↓</u>
South	<u>↓</u>	SVE 3	<u>↓</u>

DPE Blower Information			Motor Control (Hours)	
Inlet Vac (in Hg)	<u>52.8</u>	Hours	<u>631.8</u>	DTA Blower
Flow (SCFM)	<u>765</u>	Temp.(°F)	<u>100.1</u>	MS Transfer
		Speed	<u>45Hz</u>	Discharge Pump
				<u>347.7</u>

GW Extraction Field Obs					GW Extraction HMI Screen			
Well	Time	Pressure (PSI)	Flow Rate (gpm)	Total Flow (gal)	Time	Well Level (ft abv. trs.)	Total (gal)	Pump Hours
RW-1	<u>15:26</u>	<u>90</u>	<u>1.7</u>	<u>48290</u>	<u>15:42</u>	<u>20.3</u>	<u>48316</u>	<u>584.4</u>
RW-2	<u>17:20</u>	<u>10</u>	<u>0.64</u>	<u>12393</u>		<u>25.8</u>	<u>12332</u>	<u>584.9</u>
RW-3	<u>15:13</u>	<u>10</u>	<u>4.4</u>	<u>165275</u>		<u>30.5</u>	<u>165454</u>	<u>603.3</u>
RW-4	<u>2:32PM</u>	<u>45</u>	<u>3.1</u>	<u>99132</u>		<u>19.0</u>	<u>98201</u>	<u>600.8</u>
BW-7R *	<u>1:20PM</u>	<u>0</u>	<u>1.0320</u>	<u>14800</u>		<u>19.4</u>	<u>*3860</u>	<u>131.8</u>
MW-11	<u>2:20PM</u>	<u>0</u>	<u>2.6</u>	<u>85413</u>		<u>22.1</u>	<u>85626</u>	<u>599.9</u>
MW-12	<u>1:58PM</u>	<u>0</u>	<u>0</u>	<u>200</u>		<u>26.4</u>	<u>192</u>	<u>0.1</u>
MW-13	<u>17:09</u>	<u>0</u>	<u>1.57</u>	<u>58457</u>		<u>20.7</u>	<u>58600</u>	<u>599.1</u>
MW-16	<u>16:44</u>	<u>0</u>	<u>1.6</u>	<u>63787</u>		<u>21.5</u>	<u>48318</u>	<u>603.0</u>

LABORATORY SAMPLES COLLECTED (list times):

11/28/23 [12:25 FY OX EFF (vapor) 12:51 FY TREATED EFF (water) FY COMB INF (vapor) FY RAW (water) DTA EFF (vapor) (monthly sample)]

NOTES (leaks, corrosion, potential concerns, inoperative gauges or valves, sampling problems):

*BW-7R throttled to 1.03gpm - Changed to 2.0 @ 1:50PM
 It takes 2:56 2min 56sec to fill the level switch on the discharge eff
 It takes 3min 31sec to empty to the low level switch "

Date:

Time:

Vapor Field Measurements

Time	Sample Point	Conc. (PPM)	Air Flow (scfm)	Vacuum (in H2O)	Velocity (fps)	Temp (°F)
15:14	RW-1-S	534.6	45.20	33.2	2072	60.0
15:14	RW-1-I	807.5	31.41	33.6	1440	60.3
15:14	RW-1-D	1755	48.84	33.6	2239	60.4
17:07	RW-2-S	1453	46.93	36.2	2151	52.9
17:07	RW-2-I	1894	40.32	34.7	1848	52.6
17:07	RW-2-D	971.7	27.84	35.1	1276	52.3
14:55	RW-3-S	171.1	36.86	35.2	1689	61.3
14:55	RW-3-I	433.1	31.13	35.3	1427	61.6
14:55	RW-3-D	1891	39.81	36.9	1825	61.5
14:35 17:35	RW-4-S	30.7	39.45	40.1	1808	61.6
14:35 17:35	RW-4-I	324.6	46.02	38.7	2110	62.2
14:35 17:35	RW-4-D	1517	44.70	37.8	2049	60.6
1:46 PM	BW-7R	164.4	59.97	34.0	2749	61.1
17:55	BW-8-S	45.4	61.60	33.4	2824	52.7
17:55	BW-8-I	400.9	39.43	34.2	1807	52.8
17:55	BW-8-D	1545	36.75	33.9	1684	53.2
2:21 PM	MW-11	6.8	59.3	38.9	2718	57.5
1:58 PM	MW-12	193.0	64.11	35.3	2939	63.6
2:11 PM	MW-13	53.2	64.03	35.9	2935	58.6
16:44	MW-16	94.7	95.71	36.3	4387	51.6

Manifold

Time	Sample Point	Conc. (PPM)	Air Flow (scfm)	Vacuum (in H2O)	Velocity (fps)	Temp (°F)
16:01	SVE 1	1480	674.03	49.6	1931	60.6
↓	SVE 2	141.8	295.16	48.8	3411	60.5
↓	SVE 3	77.3	66.15	48.1	3032	59.1
↓	Comb.	1105	945.99	49.8	2710	62.1
↓	Ox. Eff.	91.8				52.2

12/12/23
12/13/23

Site: Form _____ Project NO: DB16.1137

Staff: Tones, A Miller Date/Time on site: 0800 off site: _____

Fill out all fields. Enter no reading (NR) or not active (NA) if applicable for each field.

SERVICE GAS METER: <u>11241 cu³</u>	Groundwater Treatment Information			
SERVICE ELECTRIC METER: <u>27215 kWh</u>	Flow Total (GalX100) <u>5060</u>	Flow Rate (gpm) <u>17</u>	Total (HMI)	

Oxidizer Main Screen					
Oxidizer Hours <u>963</u>	Dilution Valve (%) <u>0.0</u>	OX Inlet Temp (°F) <u>1398</u>	OX Outlet Temp (°F) <u>1347</u>	NG Valve (%) <u>67.1</u>	
Product Storage Tank (meas in ft using interface probe)			DTP <u>N/A</u>	DTW	TD

Sump Emptied? Record gallons			
West Bore	<u>Not Needed</u>	SVE 1	<u>Not Needed</u>
East Bore	<u>Needed</u>	SVE 2	<u>↓</u>
South	<u>15gal</u>	SVE 3	<u>↓</u>

DPE Blower Information				Motor Control (Hours)	
Inlet Vac (in Hg) <u>58.4</u>	Hours <u>964.3</u>	DTA Blower	<u>902.5</u>	MS Transfer	<u>0.6</u>
Flow (SCFM) <u>775</u>	Temp. (°F) <u>98.3</u>	Speed	<u>45</u>	Discharge Pump	<u>485.7</u>

GW Extraction Field Obs					GW Extraction HMI Screen			
Well	Time	Pressure (PSI)	Flow Rate (gpm)	Total Flow (gal)	Time	Well Level (ft abv. trs.)	Total (gal)	Pump Hours
RW-1	<u>946</u>	<u>60</u>	<u>1.9</u>	<u>81199</u>	<u>1230</u>	<u>15.0</u>	<u>78832</u>	<u>879.0</u>
RW-2	<u>825</u>	<u>10</u>	<u>0.2</u>	<u>17932</u>		<u>26.6</u>	<u>17567</u>	<u>879.0</u>
RW-3	<u>911</u>	<u>10</u>	<u>4.3</u>	<u>248489</u>		<u>31.3</u>	<u>243135</u>	<u>897.4</u>
RW-4	<u>802</u>	<u>60</u>	<u>3.5</u>	<u>99939</u>		<u>24.1</u>	<u>119566</u>	<u>895.5</u>
BW-7R	<u>0743</u>	<u>120</u>	<u>0.55</u>	<u>25628</u>		<u>24.6</u>	<u>25178</u>	<u>426.2</u>
MW-11	<u>1021</u>	<u>0</u>	<u>2.2</u>	<u>127699</u>		<u>22.5</u>	<u>127105</u>	<u>894.6</u>
MW-12	<u>0724</u>	<u>50</u>	<u>3.1</u>	<u>56674</u>		<u>23.3</u>	<u>53113</u>	<u>279.2</u>
MW-13	<u>1644</u>	<u>0</u>	<u>0.78</u>	<u>73858</u>		<u>21.4</u>	<u>73662</u>	<u>893.8</u>
MW-16	<u>1554</u>	<u>0</u>	<u>1.5</u>	<u>91384</u>	<u>↓</u>	<u>21.0</u>	<u>91062</u>	<u>897.7</u>

LABORATORY SAMPLES COLLECTED (list times):
10:12 FY OX EFF (vapor) 10:25 FY COMB INF (vapor) DTA EFF (vapor)
12:40 FY TREATED EFF (water) 1750 FY RAW (water) 12/14/23 (monthly sample)

NOTES (leaks, corrosion, potential concerns, inoperative gauges or valves, sampling problems):

Date:

Time:

Vapor Field Measurements

12/12/23
12/13/23

Time	Sample Point	Conc. (PPM)	Air Flow (scfm)	Vacuum (in H2O)	Velocity (fps)	Temp (°F)
940	RW-1-S	552.8	45.11	33.8	2007	45.4
	RW-1-I	666.4	28.94	33.8	1327	45.7
	RW-1-D	2180	41.38	33.6	1847	46.2
826	RW-2-S	1703	42.41	35.2	1944	47.9
	RW-2-I	3108	34.38	33.9	1576	48.1
	RW-2-D	1164	27.41	34.1	1256	48.3
912	RW-3-S	79.8	36.35	36.1	1666	46.4
	RW-3-I	324.9	28.19	35.8	1292	46.6
	RW-3-D	1911	33.9	36.2	1554	46.9
0500	RW-4-S -	3.1	42.9 45.0	40.3	2666	47.5
	RW-4-I	81.0	31.2 41.72	39.4	1885	47.8
	RW-4-D	1061	42.9 42.9 45.0	39.8	1971	48.1
0743	BW-7R	160.1	50.3	36.0	2306	47.7
0805	BW-8-S	401.5	37.8 45.0	33.3	2595	47.9
	BW-8-I	465.5	37.84	33.4	1734	47.9
	BW-8-D	1660	35.55	33.4	1630	48.1
1621	MW-11	5.3	55.62	40.5	2549	51.7
1624	MW-12	98.9	57.95	38 37.8	2656	52.7
1644	MW-13	2.8	55.00	36.4	2521	50.8
1557	MW-16	6.1	43.33	36.0	4278 4278	57.6

Manifold

Time	Sample Point	Conc. (PPM)	Air Flow (scfm)	Vacuum (in H2O)	Velocity (fps) _{min}	Temp (°F)
0935	SVE 1	1525	1459.74	52.5	4182	53.1
1060	SVE 2	77.5	310.94	49.7	3563	60.3
1015	SVE 3	47 55.8	71.87	47 51.3	3294	
1025	Comb.	825.4	949.92	50.9	2721	62.1
192	Ox. Eff.	46.4				

1056 DTA - 37.4 ppm Hc

Site: Former Y S Project No: DB18.1157
 Staff: Alex NT Date/Time on site: 11/31/24 7:30 AM off site: _____
 Fill out all fields. Enter no reading (NR) or not active (NA) if applicable for each field.

SERVICE GAS METER: 18,441,000 cF
 SERVICE ELECTRIC METER: 42714 kWh

Groundwater Treatment Information			
Flow Total (GalX100)	<u>780000</u>	Flow Rate (gpm)	<u>7823</u>
Total (HMI)	<u>780400</u>		

Oxidizer Main Screen					
Oxidizer Hours	<u>1463</u>	Dilution Valve (%)	<u>0.0</u>	OX Inlet Temp (°F)	<u>1399</u>
				OX Outlet Temp (°F)	<u>1344</u>
				NG Valve (%)	<u>67.8</u>

Product Storage Tank (meas in ft using interface probe)		
DTP	<u>NR</u>	
DTW		
TD		

Sump Emptied? Record gallons			
West Bore	<u>No</u>	SVE 1	<u>No</u>
East Bore	<u>↓</u>	SVE 2	<u>↓</u>
South	<u>↓</u>	SVE 3	<u>↓</u>

DPE Blower Information				Motor Control (Hours)	
Inlet Vac (in Hg)	<u>56.0</u>	Hours	<u>1461.7</u>	DTA Blower	<u>1400.0</u>
Flow (SCFM)	<u>775</u>	Temp.(°F)	<u>97.0</u>	MS Transfer	<u>1.6</u>
		Speed	<u>45Hz</u>	Discharge Pump	<u>642.1</u>

GW Extraction Field Obs					GW Extraction HMI Screen				
Well	Time	Pressure (PSI)	Flow Rate (gpm)	Total Flow (gal)	Time	Well Level (ft abv. trs.)	Total (gal)	Pump Hours	
<u>1225</u> RW-1	<u>8:25</u>	<u>45</u>	<u>1.96</u>	<u>142450</u>	<u>8:15</u>	<u>14.8</u>	<u>41960</u>	<u>1376.6</u>	<u>T</u>
RW-2	<u>1326</u>	<u>10</u>	<u>0</u>	<u>18519</u>		<u>25.1</u>	<u>18517</u>	<u>1376.6</u>	<u>NT</u>
RW-3	<u>1200</u>	<u>10</u>	<u>1.64</u>	<u>345877</u>		<u>33.2</u>	<u>345547</u>	<u>1395.0</u>	<u>NT</u>
<u>1121</u> RW-4	<u>1121</u>	<u>50</u>	<u>2.18</u>	<u>99957</u>		<u>28.5</u>	<u>192448</u>	<u>1393.1</u>	<u>T</u>
BW-7R	<u>1110</u>	<u>120</u>	<u>0.36</u>	<u>34042</u>		<u>26.3</u>	<u>34173</u>	<u>923.8</u>	<u>T</u>
MW-11	<u>1045</u>	<u>0</u>	<u>1.48</u>	<u>181571</u>		<u>25.0</u>	<u>181355</u>	<u>1392.2</u>	<u>NT</u>
MW-12	<u>1524</u>	<u>30</u>	<u>1.77</u>	<u>114510</u>		<u>24.6</u>	<u>113757</u>	<u>776.9</u>	
<u>1056</u> MW-13	<u>1056</u>	<u>0</u>	<u>0.58</u>	<u>99730</u>		<u>22.0</u>	<u>99640</u>	<u>1391.4</u>	<u>NT</u>
<u>1032</u> MW-16	<u>1032</u>	<u>0</u>	<u>0.07</u>	<u>110825</u>	<u>↓</u>	<u>21.5</u>	<u>110900</u>	<u>1395.3</u>	<u>NT</u>

LABORATORY SAMPLES COLLECTED (list times):
9:25 FY OX EFF (vapor) 9:31 FY COMB INF (vapor) DTA EFF (vapor)
9:12 FY TREATED EFF (water) 8:35 FY RAW (water) (monthly sample)

NOTES (leaks, corrosion, potential concerns, inoperative gauges or valves, sampling problems):
Well 12 increased to 2.0 gpm @ 20 psi
well 7R throttled up to 1.8 gpm
Well RW4 throttled up to 2.5 gpm

Date: 1/3/24

Time: 939

Vapor Field Measurements

Time	Sample Point	Conc. (PPM)	Air Flow (scfm)	Vacuum (in H2O)	Velocity (fps)	Temp (°F)
1227	RW-1-S	261.3	34.18	31.3	1567	61.8
1227	RW-1-I	387.8	29.26	32.1	1341	61.8
1227	RW-1-D	920.7	37.09	31.5	1700	61.6
1328	RW-2-S	1217 1228	32.69	32.9	1498	62.4
1328	RW-2-I	77.4 1771	34.23	31.8	1569	62.7
1328	RW-2-D	113.5	24.47	32.2	1122	62.7
1202	RW-3-S	15.3	32.62	34.1	1495	63.1
1202	RW-3-I	109.5	27.65	34.0	1267	62.9
1202	RW-3-D	1722	36.76	34.3	1685	63.0
1126	RW-4-S	22.7	45.48	38.9	2085	61.2
1126	RW-4-I	70.8	40.87	38.0	1873	60.9
1126	RW-4-D	1274	43.16	37.9	1979	59.7
1113	BW-7R	45.1	42.53	30.8	1949	54.3
1251	BW-8-S	35.2	52.56	30.9 30.3	2409	62.5
1251	BW-8-I	110.6	36.54	38.0 31.2	1675	64.1
1251	BW-8-D	994.2	36.15	37.9 30.6	1657	65.2
1047	MW-11	29.8	52.71	40.5	2416	55.3
1525	MW-12	496.8	59.84	35.4	2743	67.3
1058	MW-13	29.1	53.38	36.2	2447	58.1
1034	MW-16	13.2	85.82	36.3	3934	53.0

Manifold

Time	Sample Point	Conc. (PPM)	Air Flow (scfm)	Vacuum (in H2O)	Velocity (fps)	Temp (°F)
9:42	SVE 1	1293	1078.66	50.6 52.5	3090	45.5
↓	SVE 2	75.8	352.53	52.2	4040	51.1
↓	SVE 3	14.7	82.44	50.6	3779	48.6
↓	Comb.	787.7	1089.68	53.6	3122	50.8
↓	Ox. Eff.	189.2				N/A

Fill out all fields. Enter no reading (NR) or not active (NA) if applicable for each field.

Site: Former Y Station			Project Number: DB18.1157		
Staff Name: J. Alles / I. Torres			Date/Time on Site: 1/16/24 12:30		
Compound Readings					
Service Gas Meter (cf): (take photo) 22741			Service Electric Meter (kWh): (take photo) 51306		
Oxidizer [Oxidizer Screen]					
Oxidizer Hours ¹	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)	
1756	0.0	1400	1338	67.8	
DPE Blower Information [HMI Screen]					
Vacuum (in H ₂ O) ²	Temp (°F) ²	Flow (SCFM) ²	Hours ³	Speed (Hz) ³	
56.8	93.5	781	1754.8	45	
Motor Control (Hours)					
DTA Blower ³		Moisture Sep Transfer Pump ³		Discharge Pump ³	
1654.7		2.7		721.6	
Groundwater Treatment Totals					
Flow Total from HMI (gal)		Flow Total from Physical Meter (gal)		Flow Rate from Physical Meter (gpm)	
892000		891200		22	
Groundwater Well Information [HMI]					
Time Recorded	Well	Pump Hours ³	Well Level (ft abv trs) ⁵	Flow Total ⁴	
13:22 ↓	RW-1	16300	16.4	166075	
	RW-2	16300	25.9	26456	
	RW-3	1648.7	32.8	377849	
	RW-4	1646.8	26.2	242480	
	BW-7R	1176.9	24.2	48979	
	MW-11	1645.2	25.6	203748	
	MW-12	1029.8	22.8	154337	
	MW-13	1644.4	22.0	108428	
	MW-16	1648.6	20.7 ^{fluctuating btw 20-21}	111213	
	Sump Lines (Record Gallons Emptied)			Product Storage Tank (Measure in ft using interface probe)	
SVE Line 1	SVE Line 2	SVE Line 3	DTP	DTW	TD
0	0	0	Not reported	NR	NR
Laboratory Samples Collected					
Match names and times from here on labels and chain of custody form					
FY Treated Eff (H ₂ O)	FY Raw (H ₂ O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)	
1533	1521	1358	1410	1558	

¹Only found on the oxidizer main screen, not the H2K HMI

²Process Transmitter Information screen

³Motor Control screen (1, 2, or 3)

⁴Flow Totals

⁵Well Level Information

Compound Vapor Measurements					
Time	Sample Point	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Concentration (ppm)
14:37	SVE 1	56.7	1351.43	3872 ft/min	537.6
14:45	SVE 2	50.4	495.25	5675 ft/min	30.7
15:00	SVE 3	49.3	126.52	5799 ft/min	24.7
14:10	Combined Influent	54.5	1460.33	4184 ft/min	701.5
13:58	Oxidizer Effluent				54.1

Field Measurements								
Time	Sample Point	GW Measurements			Vapor Measurements			
		Pressure (psi)	Total Flow (gal) x 100	Flow Rate (gpm)	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Concentration (ppm)
1133	RW-1-S	38	1479	1.3	29.3	54.57	2501	307.8
	RW-1-I				29.5	30.57	1401	358.9
	RW-1-D				29.7	51.36	2354	1152
1044	RW-2-S	68	275	.7	32.7	45.96	2106	1593
	RW-2-I				31.3	5.02	230	2383
	RW-2-D				31.3	32.23	4277	1757
1014	RW-3-S	10	3790	1	32.4	33.76	1547	12.0
	RW-3-I				32.3	12.28	563	95.8
	RW-3-D				32.3	42.46	1946	1994
955	RW-4-S	21	990	3	32.7	52.96	2428	1.7
	RW-4-I				35.6	48.14	2208	21.2
	RW-4-D				35.7	48.54	2225	1448
943	BW-7R	22	509 x 100	0	28.7	58.20	2008	25.0
1050	RW-8-S				29.2	59.30	2718	161.8
	RW-8-I				29.2	40.64	1863	228.4
	RW-8-D				29.3	41.41	1838	1129
820	MW-11	2	2051 x 100	1.2 gallons	340.1	69.30	3177	2.5
815	MW-12	50	1573 x 100	2.2 gallons	33.3	70.03	3210	57.2
825	MW-13	1	1090 x 100	.5	33.5	64.08	2965	1.4
810	MW-16	0	1110 x 100	0	33.5	114.69	5257	2.2

Sump Lines (Record Gallons Emptied)

North Sump (In RW-1)	West Sump (Glasses Parking Lot)	East Sump (Near RW-4)	South Sump (Near Domino's)
0 gal	0 gal	0	13 gallons

Fill out all fields. Enter no reading (NR) or not active (NA) if applicable for each field.

Site: Former Y Station			Project Number: DB18.1157		
Staff Name: B. Constand & J. Fisher			Date/Time on Site: 1/31/24 8:27		
Compound Readings					
Service Gas Meter (cf): 278765 (take photo)			Service Electric Meter (kWh): 62717 (take photo)		
Oxidizer [Oxidizer Screen]					
Oxidizer Hours ¹	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)	
2115	0.0	1401	1343	71.1	
DPE Blower Information [HMI Screen]					
Vacuum (in H ₂ O) ²	Temp (°F) ²	Flow (SCFM) ²	Hours ³	Speed (Hz) ³	
59.3	100.7	764	2108.7	45.24	
Motor Control (Hours)					
DTA Blower ³		Moisture Sep Transfer Pump ³		Discharge Pump ³	
2010.3 2108.6		17.6		815.9	
Groundwater Treatment Totals					
Flow Total from HMI (gal)		Flow Total from Physical Meter (gal)		Flow Rate from Physical Meter (gpm)	
10255		1024824.36		6.86	
Groundwater Well Information [HMI]					
Time Recorded	Well	Pump Hours ³	Well Level (ft abv trs) ⁵	Flow Total ⁴	
8:47	RW-1	1985.4	14.4	194844	
	RW-2	1985.4	25.9	43665	
	RW-3	2004.1	33.4	384143	
	RW-4	2002.2	27.4	305807	
	BW-7R	1519.7	20.8	71407	
	MW-11	2000.5	26.7	220760	
	MW-12	1385.1	24.0	197652	
	MW-13	1999.8	22.3	117379	
	MW-16	2004.0	21.3	111415	
Sump Lines (Record Gallons Emptied)			Product Storage Tank (Measure in ft using interface probe)		
SVE Line 1	SVE Line 2	SVE Line 3	DTP	DTW	TD
0	0	~4	—	Dry	3.88
Laboratory Samples Collected					
Match names and times from here on labels and chain of custody form					
FY Treated Eff (H ₂ O)	FY Raw (H ₂ O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)	
10:38	10:27	9:45	9:39	10:14 <i>No Sample Submitted</i>	

DTA EFF (PID) = 46.4

¹Only found on the oxidizer main screen, not the H2K HMI
²Process Transmitter Information screen
³Motor Control screen (1, 2, or 3)
⁴Flow Totals
⁵Well Level Information

Compound Vapor Measurements					
Time	Sample Point	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Concentration (ppm)
9:14	SVE 1	53.5	1419.17	4066	1243
9:13	SVE 2	52.3	377.63	4327	131.5
9:12	SVE 3	21.4	NM		
9:15	Combined Influent	53.8	1284.62	3680	896.0
9:44	Oxidizer Effluent				81.5

only water
in line

Field Measurements								
GW Measurements					Vapor Measurements			
Time	Sample Point	Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Concentration (ppm)
12:49	RW-1-S	34	019519.85	1.37	29.6	49.44	2266	222.7
	RW-1-I				30.2	31.88	1461	244.6
	RW-1-D				29.8	47.80	2191	862.7
1/30/24 ~17:20	RW-2-S	8	0042	0.84	34.6	47.48	2176	1468
	RW-2-I				34.0	47.97	2199	2212
	RW-2-D				33.3	35.42	1624	2033
12:20	RW-3-S	0	0384196.00	0	34.7	41.93	1922	40.6
	RW-3-I				34.7	34.42	1578	1662
	RW-3-D				34.6	43.99	2016	222.5
12:02	RW-4-S	14	099941.60	3.10	38.5	58.79	2695	24.2
	RW-4-I				37.8	51.17	2346	25.8
	RW-4-D				37.7	54.34	2491	1089
11:53	BW-7R	78	007149030	0.92	32.0	60.35	2766	59.7
13:08	BW-8-S				30.7	63.95	2931	66.8
	BW-8-I				31.0	42.17	1933	129.4
	BW-8-D				31.1	40.63	1862	862.2
01/31 AM	MW-11	0	022861.90	0.68	41.3	69.04	3164	46.1
11:48	MW-12	25	019792650	1.52	36.9	74.62	3420	118.0
12:35	MW-13	0	011744923	0.31	2.2	0.00	0	51.3
01/31 AM	MW-16	0	011264.27	0	35.7	109.26	5008	40.2

Sump Lines (Record Gallons Emptied)			
North Sump (In RW-1)	West Sump (Glasses Parking Lot)	East Sump (Near RW-4)	South Sump (Near Domino's)
~1.5 gal.	Not pumped	~5.0 gal.	~12 gal.

¹Only found on the oxidizer main screen, not the H2K HMI
²Process Transmitter Information screen

³Motor Control screen (1, 2, 3)
⁴Flow Totals

⁵Well Level Information

GROUNDWATER ELEVATION DATA SHEET

 Project Name: Former Y Station State Lead Site Sampler: J Torres

 Project #: DB18.1157 Date: 12/13/2023

 Project Manager: G. Herrmann Sheet # 1 of

<u>Well ID</u>	<u>Depth to NAPL</u>	<u>Depth to Water</u>	<u>Total Depth</u>	<u>Comments</u>
BW-4	—	332.30	347	Existing Tether 339.01'
BW-5	—	332.29	347	
BW-6	—	332.8		
BW-7	—	331.06	354	Existing Tether 338'
BW-8	—	330.68	356	Existing Tether 344.0'
BW-9	—	331.43		Existing Tether 337.5'
BW-10	—	329.14		Existing Tether 338'
MW-14	—	321.56	356.0	Existing Tether 337'
MW-15	—	325.97	358	Existing Tether 341.3'
MW-17	—	332.38	375.0	Existing Tether 346.25

 Comments:

INDEX
Project Manager: Tom Golden
(505) 849-9402

10/31/23 Former Y Station Start-up Bc

7:04 Bc onsite.
Weather, 39°F, Sunny.
John Strey From Intellishare and
Ben Mcneil onsite.
open Containers + inspect site.

7:52 Guys From H&K on-site.
Two pumps showing Faults.

10:18 Enviro-Works on-site w/ Ladder
to Remove wood Covering Oxidizer Tower.
* problems Connecting to Server, on phone
w/ Nancy to get Fixed. (Modem)

10:51 started sVE-Blower, Blower Rotating
in Correct Direction.

12:35 person From NM Gas Company onsite
to get Gas Meter Supplying Gas to oxidizer.

13:42 Gas Meter Fixed.

13:43 Started-up SVE System on Fresh Air.
System Running Smoothly. John Strey
Trouble-shooted which Spring Works
Best on the influent Natural Gas Line.
Shut Down SVE, & will Run System
Drawing From wells Tomorrow.

H&K + Mcneil Troubleshooting issues
w/ Transducers. Will Continue Troubleshooting Tomorrow.

17:30 Bc + H&K + Mcneil offsite.
Locked + Secured.

Bc
10/31/23

11/1/23

7:04

Be onsite

Former Y Station

Weather, 36°F. Sunny w Light Breeze.
Enviroworks + McNeil onsite.

7:13

Clay Barnhill on-site.

Opened all SVE well valves
except for MW-13.

Transducers to MW-11, MW-12

were wired to Flow Meter, opposite,

Wires Switched and Transducers Reading
Correctly.

Troubleshooted issues w/ Transducer
in RW-2, could not fix, will need

to pull pump + Transducer

9:46

Key on-site.

10:01

Begin pulling pump @ MW-12.

Reading Fault.

1200

IT onsite

1219

McNeil trims excess pump

cable. @ MW-12

Removing pump motor

placing pump into 5 gallons

of water, verticle,

ohmed to infinite,

Preparing to test cables.

IT/BC/RV

Start up

10/1/23

1229

Speaking with John
SVE system
running for 2.5 hrs.

Started at Pulling only
From wells (only Process A
of 10:00 am. At 2

Air samples will be taken

1238

Water treatment fully
operation besides MW-12
and RW-2

SVE fully operational
@ 10 besides MW-12 &
MW-13.

1246

Pump runs at 60 Hz
1.38 amps when
submerged and directly
connected to disconnect
box.

1331

taken DTW @ MW-12
331.11 TOC

1400

Began initial O&M
of SVE & water treatment

1401

Taking well head measurements

11/1/23 system startup IT/BC/RV

1430 took effluent & influent samples from water treatment system.

1724 Samples shipped via UPS to HALL.

17:58 ~~IT~~ + IT + RV offsite.

17:49 Begin pulling pump RW-2, cut motor wire @ place where cut was found, measured wire, and was ~100' short.

Pump was replaced and new motor wire installed.

20:01 Gauged RW-2

DTP	DTW
331.73	332.07

21:00 well pump + pipe Reinstalled. Begin attaching Transducer + Motor Leads.

Restarted pump, Flow Meter spinning very slow, closed valve to main line, opened sample port. Good flow. Will continue to troubleshoot in the morning. Transducer working properly.

21:00 Closed well vault.

21:10 Locked & Secured site, BC + HAK + BC McNeill offsite.

11/01/23

11/02/23 Former Y Station

BC

7:21 BC + HAK onsite, weather 33°F, Sunny. McNeill + John Stray already on-site.

7:30 EnviroWorks on-site.

Key to Begin Collecting Readings from Flow Meters @ Wellhead.

0845 calibrating PID

zero gas - 0.0

100 cal - 99.8

Begin well head measurements

MW-11 VAC. HC Velocity
32.1 see sheet

0932 - Spoke w/ Ray. He says he took well GPMs

MW-11 - 29 pm

MW-13 2

RW-TR 2

RW-4 4

RW-3 3.5

MW-10 2

1055 taking SIE Readings morning of 11/2 aVidizer temp was raised from 1400 → 1450

11/2/23 system start up IT/BC/RV

1127 John is spraying soapy water on all natural gas fittings looking for leaks.
HTK shut System Down to test Reboot. getting static well measurements

1142 HTK Rebooted System

1220 Grace, Eve, Alex
Jason Romero, onsite.

1253 @ MW12 Reinstalling pump.

1421 MW12 completed, tested and shut down. Waiting for starter (magnetic) vacuum valve open.

SVE system rebooted and restarted @ 1200

1445 HTK crew is giving a site training to DBS&A Personnel

Two sets of Schematics on site, will be revised.

IT/BC/RV system start up 11/2/23

Water Column Levels after System Shut down for 15 minutes

	Water Column Water above DFW (transducer)
Wed 10	
mw-11	29.1
mw-10	30.1
mw-12	26.8
mw-7	20.7
mw-4	32.8
mw-1	21.2
mw-2	26.3
mw-3	33.2
mw-13	22.5

1448 Grace is giving EVE & Alex a training on SVE Control panel operations

1454 Shut down RW-4 due to leaking Air Release valve. As per TOM Golden

1508 HTK Mechanical Training.
SVE Filter at knock out tank at Man way.

1st oil change in a week

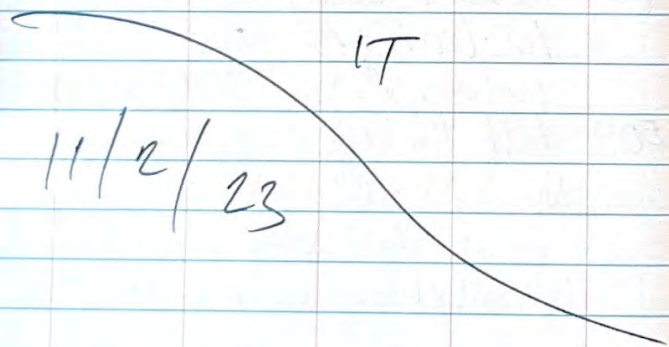
1634 Shut down SVE System
so that repairs to wells
on line 1. (MW-2)

1715 Restarted SVE system
opened line 1 & 2
turned MW-4 pump to
Auto.

1749 Alarm on DTA Blower
PAL EXISTS at 17:48
PSL valve lowered to
2 inches of water, from 6
inches of water. Run System
Alarm did not come
back on.

1822 Site Secured
All crew on
site

IT
11/2/23



GMH IT/BC/RV Startup 11/3/23

709 Crew on site. Weather
is 43° Clear skies, Breezy.
Had meeting (Safety)
Crews split up to
do well head measurements
and SVE O&W.

0828 Crew at MW-8 &
MW-2. Jason &
Clay taking TD readings
at MW-8, figuring out
which well is shallower &
intermediate

0930 Reg, Brandon, Inspecting
Shamps for water.

1007 Preparing for water
sampling. & All sampling
sampling complete.

1200 I. Torres offsite.

1208 Turned off MW-13 well pump.
Assessing drawdown vs. flow
rates

1245 Added jumper cable to PSL
sensor @ DTA.

1312 Opening SVE flow on MW-13 (SVE line 3)

19:13 BC + RV Completed Wellhead Measurements
Locked & Secured site. BC + RV offsite
11/3/23

ANT

Punchlist + Data Collection

11/6/23

1416 Arrive on site (Alex), meet Enviroworks (EW) (Clayton + 2 helpers), Brief Clayton on punchlist. Alex to identify location where offset is needed.

1432 RW-4 identified as leaking from ARV. Shutt off with switch at compound. EW placed cones and tape around MW-11 for Conc. Repair

1444 Clayton to slowly shut off VPE SVE at wells with valve to drill out new plugs and sampling ports. This is to prevent plastic from being sucked in.

1457 EW added nipples to RW-4 for G-plugs and cleaned and reglued

1504 RW-4 turned on and confirmed no leaks from ARV.

1526 Data Collection @ compound yielded a discrepancy between physical effluent meter (903 x 100) and HMI screen (957 x 100). Grace Herrmann notified via phone.

1651 Performing data collection. Informed by EW that concrete is being delivered tomorrow afternoon (11/7/23) and will need to focus on preparing pads around wells for concrete and will not be able to tap pipes until after concrete is poured.

ANT

11/6/23

1730 Enviroworks leaves for the day. Concrete around RW-4 is busted for tomorrow's concrete delivery.

1830 Collection continued. Site Secure.

ANT

Punchlist + Data Collection

11/7/23

720

Arrive on site. Enviro works (EW) is saw cutting and breaking concrete around MW 11. Conditions are clear, ~51°F, slight breeze

813

Check condition of RW-2 meter connection. Wire nuts are screwed on. Meter operation seems nominal. HMI still showing 18 gal.

930

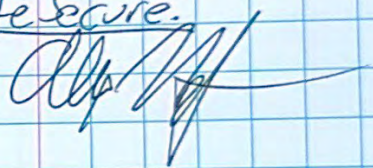
EW leaves to gather materials for changes and repairs of compound.

ANT Punchlist + Data Collection 11/8/23

- 710 Site open. Temperature is 51°F. Clear and sunny. No breeze so far. High is 77°F. Enviroworks (EW) is starting at RW-1, RW-2 and BW-8 this morning.
- 759 EW informed me that RW-1 has a hissing sound, likely from sump cap. An item not previously identified on punchlist. I asked them to install J-plug if they have one.
- 814 I checked RW-2's connection again. Red was twisted properly. Black came off easily. I retwisted them and reattached the wire nut. This is the wire coming from the water meter and home running back to the compound.
- 845 EW cannot fit offsets on RW-3. Called Grace Herrmann to confirm they are not needed. EW will only install piece of 2" pipe to form better seal with J-plug.
- 1019 EW added J-plugs to sumps north of Bo Domino's.
- 1052 Conclusion of field measurements.
- 1251 Called Randy at H2K to calibrate HMI readout to physical meters at effluent and RW-2.

ANT Punchlist + Data Collection 11/8/23

- 1336 EW has completed all punchlist items except for securing DTA effluent pipe. They will complete after taking concrete debris to recycler. I locked both containers. EW will lock gate after completion of their work. Site Secure.



ANT

Former Y O&M

17:11 Arrived on site. Dark, ~60°F 11/15/23

Clay Barnhill already on site and opened. Oil in DPE blower had been changed. Confirmed level in viewport. system off.

17:29 Clay adds grease to both ports in back of DPE blower. Verizon modem reset by unplugging and plugging back in.

17:35 Turned on system and ensured dilution valve closed to 60%.

17:45 Site secured + locked.

[Signature]

ANT

12-12-23

11/16/23

ANT

Former Y O&M

47°F

7:01 Site opened. (cloudy and misty). Alex from DBS+A on site (me).

7:20 Calibrated PID, confirmed measuring equipment operational. Measurements begin.

8:00 RW-1 is not running water pump. (Observed meter not spinning.)

17:20 Completed measurements. See Field Form

Site locked + Secured

[Signature]

ANT

12-12-23

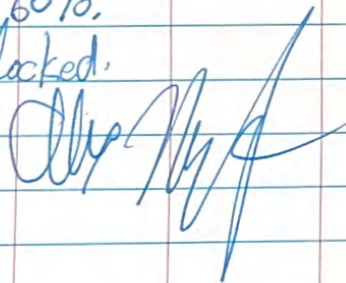
ANT Former Y O+M 11/15/23

17:11 Arrived on site. Dark, ~60°F.
Clay Barnhill already on site and opened. Oil in DPE blower had been changed. Confirmed level in viewport. ^{SYSTEM OFF.}

17:29 Clay adds grease to both ports in back of DPE blower. Verizon modem reset by unplugging and plugging back in.

17:35 Turned on system and ensured dilution valve closed to 60%.

17:45 Site secured + locked.



ANT Former Y O+M 11/16/23

7:01 Site opened. (Cloudy and misty. 47°F)
Alex from DBS+A on site (me).

7:20 Calibrated PID, confirmed measuring equipment operational. Measurements begin.

8:00 RW-1 is not running water pump.
(Observed meter not spinning.)

17:20 Completed measurements.

See Field Form

Site locked + Secured

11/21/23

Former Y Station

Bc

13:47 Bc onsite, purpose O&M.

Weather, 56°F, Sunny & breezy.

Begin Collecting O&M Measurements @ system.

14:37 Begin Collecting Vacuum Measurements Using Dwyer Series 475 Mark III

Digital Manometer.

14:40 Begin Collecting Flow Measurements Using Tsi Velocicalc Series 9535.

14:53 Begin Calibrating PID SN:592-926669 Fresh Air (zero Cal.) = 0.0 ppm

100 ppm Isobutylene = 100.1 ppm

14:55 Begin Collecting PID Measurements @ Manifold & Collecting Lab air Samples.

19:20 Locked + Secured site, Bc offsite.

~~Bc
11/21/23~~

11/22/23

Former Y Station O&M

Bc

7:26 Bc onsite, purpose Continue O&M.

Weather, 36°F, Sunny.

7:28 Begin Calibrating PID SN:592-926669 Zero Cal. (Fresh Air) = 0.0 ppm

100 ppm Isobutylene = 100.0 ppm

Begin using PID & Dwyer Series 475 Mark III Digital Manometer,

and Tsi Velocicalc Series 9535

to Collect Wellhead O&M Measurements.

8:04 Bc onsite @ Container to Collect Water Samples. Totalizer @ 03126 x 100 Gal.

9:00 Locked + Secured site, Bc offsite.

~~Bc
11/22/23~~

11/27/23 Former Y Station ANT

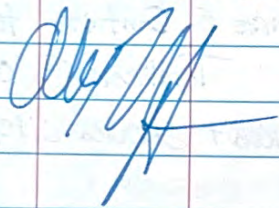
1:14 PM Alex on site. Clear weather, partly cloudy. 50°F. Fault code on well

BW-7R VFD. No alarms in system.

1:20 PM Fault code 2310 @ well BW-7R to throttle valve.

1:35 PM Valve throttled to 1.03 gpm. Contacted Grace Herrmann to monitor well level.

17:23 Well monitoring complete. All data recorded. Site locked and secure



11/28/23

Former Y Station

ANT

6:52 Alex and McNeil electric on site. Discussed FR with BM to move to starter instead of VFD. ANT to throttle well manually. Weather is clear and 21°F.

8:00 Contacted Pulsafeeder to discuss effluent meter not matching well production. They indicated that not having straight runs of pipe can prevent the meter from reading correctly.

8:10 BM and ANT shut down system to safely install starters (contactors) for BW-7R and MW-12

10:30 BM finished installing starters and replacement switch in water container. System restarted.

10:44 Clarifier throwing an alarm / DTA blower. BM troubleshooting.

12:49 BM informed ANT that the switches for RW-2 and RW-3 need to be replaced. Additionally, the sensor on the meter at RW-4 needs to be replaced.

13:21 Completed taking samples for HETL from Raw water, Treated water, Combined SVE, DTA eff, and Ox eff. (6 Tedlar Bags, 2 water kits left.)

13:26 ANT leaves. BM installing Dwyer moisture collectors @ wells 1, 2 + 12. Site locked and secure.

12/12/23 1st At Sampling IT

0800 IT onsite weather
is 32°F Hazy Skies.
Begin O&M @
SVE for system. Visually
inspected site. Found
air bubbles in sight
glass @ Blower ~~mt~~
this may indicate low
oil level.

0810 Begin O&M

0932 Calibrate P10

Zero gas — 0.0

Span gas — 100.2

1058 Completed SVE Air
Sampling and Field
measurements.

OX Effluent sample —

Comb. Influent —

Raw Water sample — 1115

Treated Water sample — 1128

1230 Alex Nuñez on site,
Replaced Flash drive on
control Panel.

MW-14

1252

DTW — 321.56

DTNAPL — ~~321.56~~ NR None

TD —

Existing Tether — ~~343' - 023'~~ (missing 1ft)

021' —

© 342' → 5' = 337'

GSH231-12 Sleeve ID

Replaced weight.

Deployed Hydrasteer @ ~~13:06~~ 13:19

Note: all Hydrasteers are same number

Water level/NAPL taken with
Solinst Interface Meter Model 122

MW-15

1329 DTW - 325.97

DTNAPL - None

TD -

Tether (Existing): 341.3'

Deployed Hydrasleeve @ 1339
on existing tether

1350

MW-17

DTW - 332.38

DTNAPL -

Tether (Existing) 346.25'

Deployed Hydrasleeve @ 1358
on existing tether

BW-7

1407

DTW - 331.06

DTP -

TD -

High Vacuum Coming
From J Plug.

Hydrasleeve

Deploy time 14:16

Existing Tether @ 338.0

1425

BW-5

DTW -

DTP -

TD -

High Vacuum at well.

Water level @ 6.5'

Decide to install hydrasleeve tomorrow after
system shut off

1437

BW-4

DTW - 332.30

DTP -

TD -

Existing Tether @ 339.0'

Deploy @

1447 on

existing tether

@ 334.0'

MW-15
1329 DTW - 325.97

DTNAPL - None

TD -

Tether (Existing): 341.3'

Deployed Hydrasleeve @ 1339
on existing tether

1350 MW-17

DTW - 332.38

DTNAPL -

Tether (Existing) 346.25'

Deployed Hydrasleeve @ 1358
on existing tether

BW-7

1407

DTW - 331.06

DTP -

TD -

High Vacuum Coming
From J Plug.

Hydrasleeve
Deploy time 14:16
Existing Tether @ 339.0'

1425 BW-5

DTW -

DTP -

TD -

High Vacuum at well.

Water level @ 6.5'

Decide to install hydrasleeve tomorrow after
system shut off

1437

BW-4

DTW - 332.30

DTP -

TD -

Existing Tether @ 339.0'

Deploy @

1447 on

existing tether
@ 339.0'

12/12/23

1st Quarter

VT/AN

1524	Calibrating	Y87
	PH	Actual Temp °C
	4.00	4.0
	7.06	7.04
	10.13	10.13
	SPC	"
	PH	"
	1413	1412
	OKP	12.1
	230	230
	OKP	13.3
	DO	"
	655.3 mmHg	85.3%
		9.39 mg/L

1538 © MW-16
sample time - 1545

1608 © MW-11
sample time - 1614

1634 © MW-13
sample time - 1645

1702 stored equipment into
SUE container.

locked both SUE &
water treatment

containers samples on all
IT off site

12/AN

1st Quarter

12/13/23

0700	Outside weather is 44° Cloudy, Foggy Breezy Had tailgate safety meeting.
0711	© MW-12 Sample time - 0715
0734	© MW-7R BW-7R sample time - 0740
0756	© RW-4 sample time - 0758
0818	© RW-2 sample time - 0820
0840	© RW-8 sample time - 845
0840	© BW-8 sample will be tomorrow with hyd sleeve
0900	© RW-3 sample time - 0905
934	© RW-1 sample time - 0940
1013	Back at SUE site Preparing to shut off system.
1021	System shut down.

12/13/23

1st Quarter 11/AN

1024 Oil has lots of air
Bubbles when on and
when turned off.

1029 #A BW-5

DTW - 332.29

DTP -

TD -

Deploy time - 1052

Tether at 345' Bgs

1112 BW-8

DTW - 330.68

DTP -

TD -

Deploy time - 1120

#A Tether depth - 344.0'

344'

1st Quarter

12/13/23

1619 ~~#A~~ BW-10 329.14

DTW - ~~339.14~~

DTP -

TD -

no sample

Existing tether is
set at 338'

1636 BW-9

DTW - 331.43

DTP -

TD -

no sample

Existing tether is at 337.5'

1651 BW-106

DTW - 332.80

DTP -

TD

no sample

no tether

1700 LT/AN OTR
Site

IT

12/13/23

17/AN

1st Quarter

12/14/23

0700

on site weather is
34° cloudy Cold breeze
Calibrating YSI

	Actual	Temp °C
pH		
4.00	4.00	10.1 9.7
7.00	7.06	10.3
10.14	10.14	10.4
SPC	"	"
1413	1413	9.8
ORP	"	"
236		
231	231	9.5
DO	"	"
650.3mnty	104.81.	3.9
	13.6mg/L	

0740

MW-14

Sample time - 745
System off DTW - 321.70

12/14/23

1st Quarter IT/AN

0805

MW-15

DTW - 326.02'

Sample time 809

System off

0821

BW-7 330.73'

DTW - 330.33'

Sample time - 830

System off

BW-4

DTW - 332.04'

0849

Sample time - 851

910

MW-17

DTW - 332.35'

Sample time - 913

System off

1048

BW-5

DTW - 331.53

Sample time - ~~1055~~ 1100

System off

IT/AN

1st Quarter 12/14/23

1124

BW-8

DTW - 330.47'

Sample time - 1125

System off

1200

Drained 15 gallons of water from South Slump.

1219

Restarted System

1240

took Fy Treated Off

Sample.

1250

took Fy Raw Sample.

1312

Containers locked

all Samples on ice

Main gate locked

IT/AN off site

12/14/23

IT

1/3/24

O&M

ANT

7:40 AM Alex (ANT) on site. Clear sky, sunny, 26°F. Preparing to take lab samples.

7:52 AM Calibrating Honeywell MiniRAE 3000 PID with Isobutylene 100ppm gas. Zero: 0.0 ppm Span: 100 ppm

7:59 AM Oil level in SVE blower is slightly below half line.

8:20 AM Discovered brown foam on side of clarifier without blades. Sprayed some Liquinox (~2/3 spray bottle).

8:35 Collected FY Raw Heal Sample

9:12 Collected FY Treated Eff Heal Sample

9:25 Collected FY Ox EPF Heal vapor sample

9:31 Collected FY Comb Inf Heal vapor sample

9:34 Finish HEAL collection

9:39 Begin vacuum meas, velocical, and PID meas @ compound.

TSI-955-P Velocical

Dwyer Series 475 Mk III Digital Manometer

10:20 Finish measurements at compound.

Start well measurements

10:41 MW16 was observed very low ~ 0.07 gpm

13:54 well 7R valve opened. New flow: 42.3 gpm

14:10 Rethrottled 7R to 1.35 gpm @ 110 psi

1/3/24

O&M

ANT

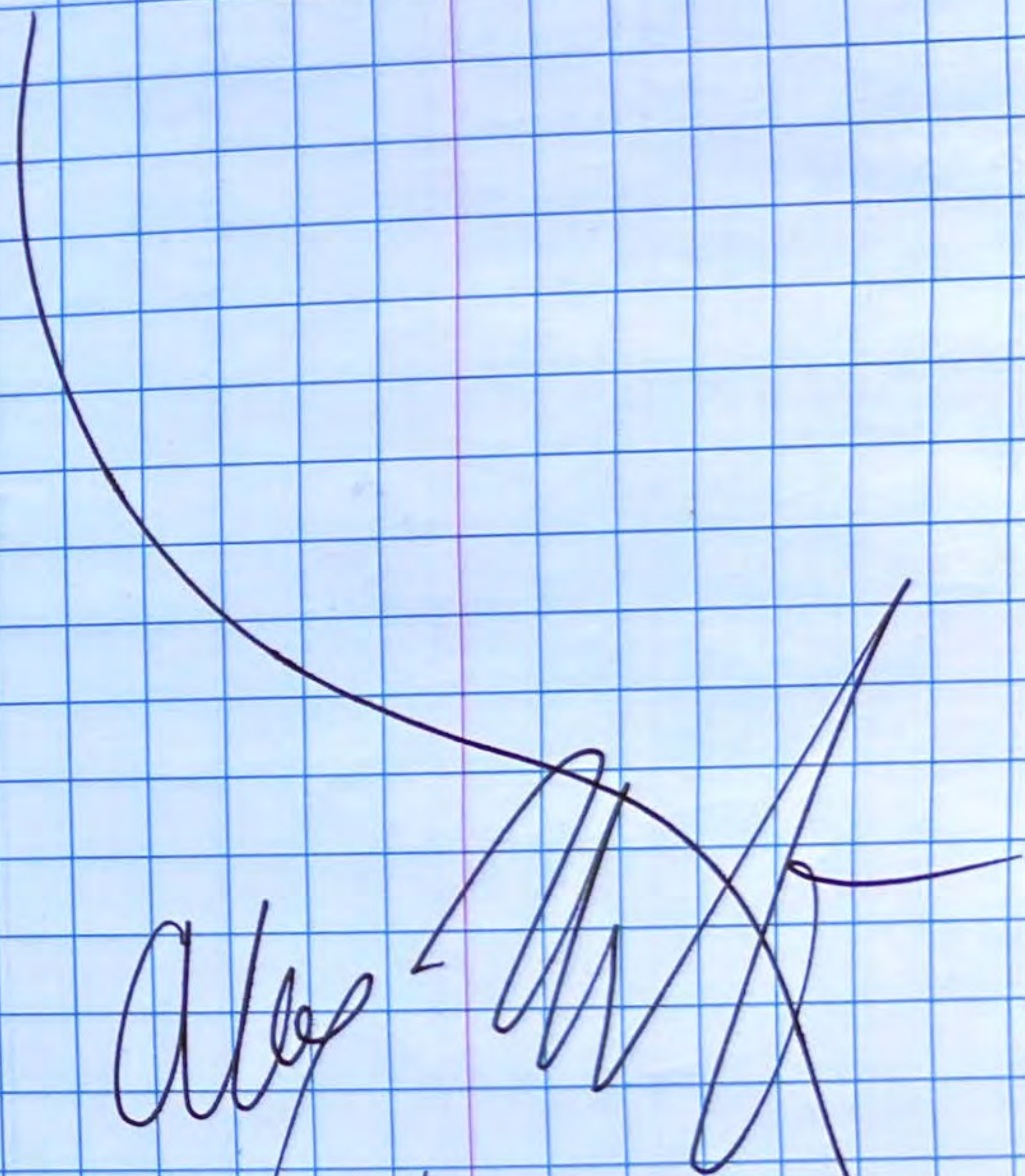
~~15:36~~

14:53 7R Throttled to 1.8 gpm WL @ 19.1'

R MW4 Throttled to 2.5 gpm @ 28.0'

15:41 MW12 Throttled to 2.0 gpm @ 24.5'

15:45 Site locked and secure.



1/3/24

1/3/24 O&M ANT

7:40 AM Alex (ANT) on site. Clear sky, sunny, 26°F. Preparing to take lab samples.

7:52 AM Calibrating Honeywell MiniRAE 3000 PID with Isobutylene 100ppm gas. Zero: 0.0 ppm Span: 100 ppm

7:59 AM Oil level in SVE blower is slightly below half line.

8:20 AM Discovered brown foam on side of clarifier without blades. Sprayed some Liquinox (~2/3 spray bottle).

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9:12 Collected FY Treated Eff Heal Sample

~~9:31~~ 9:25 Collected FY Ox Eff Heal vapor sample

9:31 Collected FY Comb Inf Heal vapor sample

9:34 Finish HEAL collection

9:39 Begin vacuum meas, velocical, and PID meas @ compound.

TSI-955-P Velocicalc
Dwyer Series 475 Mk III Digital Manometer

10:20 Finish measurements at compound.
Start well measurements

10:41 MW16 was observed very low ~ 0.07 gpm

13:54 well 7R valve opened. New flow: 42.3 gpm

14:10 Rethrottled 7R to 1.35 gpm @ 110 psi

1/3/24 O&M ANT

~~15:36~~

14:53 7R Throttled to 1.8 gpm WL @ 19.1'

R MW4 Throttled to 2.5 gpm @ 28.0'

15:41 MW12 Throttled to 2.0 gpm @ 24.5'

15:45 Site locked and secure.

Alex
1/3/24

1/16/24

O&M

IT/SA

1230

IT, SA on site, weather
50° clear slight breeze
Did a visual inspection
at SVE of water treatment
No water found on floor
at water treatment. SVE
Blower still has fatty oil.

1304

Began O&M.

1340

Calibrating PID
serial # 592-926669
Honeywell Mini Rave 30W+
Zero gas - 0.0 ppm
span gas - 100.0 ppm

G

1347

took OX EFF sample

1410

took Comb INF sample

1521

took FY Raw Sample

1533

took FY treated sample

1538

took DTA eff sample

1615

adjusted MW-13 Flow
adjusted Flow of RW-7R
then RW-3 and finally
to RW-2.

1647

IT/SA off site, all
Samples on 16, Gates
& Door locked

IT/JA

O & M

1/17/24

0800 IT/JA on site. Weather is 19° clear. Picking up equipment to begin well head measurements. Set up cores at MW-12 & 14.

Calibrating PID

zero gas - 0.00

Span - 100.00

1154 Completed well head measurements.

1317 purchased grease gun & grease (NGIL 2). lubed Blower electrical motor.

Site completed. Scanned field notes, & Data sheets. Locked containers & locked

1330 gate. IT JA off site

IT

1/17/24

1/30/24

Former Y Station

Bc/JF

17:05 Bc + JF on-site, purpose o.s.M.
Weather, 62°F

Begin Calibrating PID SN: 592-914383

Zero Cal. (Fresh Air) = 0.0 ppm

100 ppm Isobutylene = 100.2 ppm

Begin Collecting Wellhead Measurements
@ optomotrust.

17:43 Bc + JF offsite.

Bc
1/30/24

1/31/24

Former Y Station

Bc/JF

8:27 Bc + JF onsite, purpose o.s.M.
Weather, 47°F, mostly cloudy.

8:29 Begin Calibrating PID SN: 592-914383

Zero Cal. (Fresh Air) = 0.0 ppm

100 ppm Isobutylene = 100.2 ppm

8:34 Begin Collecting o.s.M. Data @ System.

11:04 Begin Collecting Wellhead Measurements

Completed Wellhead Measurements.

Pumped Sumps.

Closed Valves to SVE Lines

MW-11, MW-13 & MW-16.

16:08 Bc + JF offsite, All samples on Ice.

Locked & Secured Site.

Bc
1/31/24

Appendix D

Laboratory Reports

November 15, 2023

Tom Golden

Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL: (505) 822-9400
FAX:

RE: Former Y Station

OrderNo.: 2311223

Dear Tom Golden:

Eurofins Environment Testing South Central, LLC received 9 sample(s) on 11/3/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Former Y Oxidizer Effluent

Project: Former Y Station

Collection Date: 11/1/2023 2:05:00 PM

Lab ID: 2311223-001

Matrix: AIR

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	6500	250		µg/L	50	11/8/2023 4:44:00 PM	R101035
Surr: BFB	97.2	15-412		%Rec	50	11/8/2023 4:44:00 PM	R101035
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Methyl tert-butyl ether (MTBE)	ND	12		µg/L	50	11/8/2023 4:44:00 PM	R101035
Benzene	150	5.0		µg/L	50	11/8/2023 4:44:00 PM	R101035
Toluene	160	5.0		µg/L	50	11/8/2023 4:44:00 PM	R101035
Ethylbenzene	15	5.0		µg/L	50	11/8/2023 4:44:00 PM	R101035
Xylenes, Total	47	10		µg/L	50	11/8/2023 4:44:00 PM	R101035
Surr: 4-Bromofluorobenzene	76.2	70-130		%Rec	50	11/8/2023 4:44:00 PM	R101035

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Former Y SVE Combined Influe

Project: Former Y Station

Collection Date: 11/1/2023 2:24:00 PM

Lab ID: 2311223-002

Matrix: AIR

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	36000	500		µg/L	100	11/9/2023 4:08:48 PM	GA10106
Surr: BFB	110	15-412		%Rec	100	11/9/2023 4:08:48 PM	GA10106
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	100	11/9/2023 4:08:48 PM	BA10106
Benzene	450	10		µg/L	100	11/9/2023 4:08:48 PM	BA10106
Toluene	880	10		µg/L	100	11/9/2023 4:08:48 PM	BA10106
Ethylbenzene	66	10		µg/L	100	11/9/2023 4:08:48 PM	BA10106
Xylenes, Total	320	20		µg/L	100	11/9/2023 4:08:48 PM	BA10106
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	100	11/9/2023 4:08:48 PM	BA10106

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Former Y Oxidizer Effluent

Project: Former Y Station

Collection Date: 11/3/2023 11:21:00 AM

Lab ID: 2311223-003

Matrix: AIR

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	4400	250		µg/L	50	11/9/2023 4:32:26 PM	GA10106
Surr: BFB	95.4	15-412		%Rec	50	11/9/2023 4:32:26 PM	GA10106
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	12		µg/L	50	11/9/2023 4:32:26 PM	BA10106
Benzene	190	5.0		µg/L	50	11/9/2023 4:32:26 PM	BA10106
Toluene	230	5.0		µg/L	50	11/9/2023 4:32:26 PM	BA10106
Ethylbenzene	23	5.0		µg/L	50	11/9/2023 4:32:26 PM	BA10106
Xylenes, Total	80	10		µg/L	50	11/9/2023 4:32:26 PM	BA10106
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	50	11/9/2023 4:32:26 PM	BA10106

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Former Y SVE Combined Influe

Project: Former Y Station

Collection Date: 11/3/2023 11:34:00 AM

Lab ID: 2311223-004

Matrix: AIR

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	34000	500		µg/L	100	11/9/2023 5:19:39 PM	GA10106
Surr: BFB	109	15-412		%Rec	100	11/9/2023 5:19:39 PM	GA10106
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	100	11/9/2023 5:19:39 PM	BA10106
Benzene	490	10		µg/L	100	11/9/2023 5:19:39 PM	BA10106
Toluene	1000	10	E	µg/L	100	11/9/2023 5:19:39 PM	BA10106
Ethylbenzene	80	10		µg/L	100	11/9/2023 5:19:39 PM	BA10106
Xylenes, Total	410	20		µg/L	100	11/9/2023 5:19:39 PM	BA10106
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	100	11/9/2023 5:19:39 PM	BA10106

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: OW Eff

Project: Former Y Station

Collection Date: 11/3/2023 10:56:00 AM

Lab ID: 2311223-005

Matrix: GROUNDWA

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	84	5.0		mg/L	10	11/3/2023 6:13:04 PM	R100957
Nitrogen, Nitrate (As N)	2.1	1.0		mg/L	10	11/3/2023 6:13:04 PM	R100957
Sulfate	46	5.0		mg/L	10	11/3/2023 6:13:04 PM	R100957
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: MCA
Total Dissolved Solids	315	250	D	mg/L	1	11/7/2023 3:39:00 PM	78595
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	15	0.95		µg/L	100	11/7/2023 8:37:12 AM	78571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	6.7	1.0		mg/L	20	11/7/2023 4:55:18 PM	GW1009
Surr: BFB	95.3	15-270		%Rec	20	11/7/2023 4:55:18 PM	GW1009
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	1100	20		µg/L	20	11/7/2023 12:07:57 PM	R101013
Toluene	770	20		µg/L	20	11/7/2023 12:07:57 PM	R101013
Ethylbenzene	65	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,2,4-Trimethylbenzene	70	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,3,5-Trimethylbenzene	27	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,2-Dichloroethane (EDC)	97	20		µg/L	20	11/7/2023 12:07:57 PM	R101013
1,2-Dibromoethane (EDB)	14	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Naphthalene	24	2.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1-Methylnaphthalene	4.9	4.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
2-Methylnaphthalene	8.3	4.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Acetone	53	10		µg/L	1	11/6/2023 2:27:29 PM	R100965
Bromobenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Bromodichloromethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Bromoform	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Bromomethane	ND	3.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
2-Butanone	39	10		µg/L	1	11/6/2023 2:27:29 PM	R100965
Carbon disulfide	ND	10		µg/L	1	11/6/2023 2:27:29 PM	R100965
Carbon Tetrachloride	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Chlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Chloroethane	ND	2.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Chloroform	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Chloromethane	ND	3.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
2-Chlorotoluene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
4-Chlorotoluene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
cis-1,2-DCE	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: OW Eff

Project: Former Y Station

Collection Date: 11/3/2023 10:56:00 AM

Lab ID: 2311223-005

Matrix: GROUNDWA

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Dibromochloromethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Dibromomethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,1-Dichloroethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,1-Dichloroethene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,2-Dichloropropane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,3-Dichloropropane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
2,2-Dichloropropane	ND	2.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,1-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Hexachlorobutadiene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
2-Hexanone	45	10		µg/L	1	11/6/2023 2:27:29 PM	R100965
Isopropylbenzene	5.5	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
4-Isopropyltoluene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
4-Methyl-2-pentanone	14	10		µg/L	1	11/6/2023 2:27:29 PM	R100965
Methylene Chloride	ND	3.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
n-Butylbenzene	ND	3.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
n-Propylbenzene	9.1	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
sec-Butylbenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Styrene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
tert-Butylbenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
trans-1,2-DCE	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Trichlorofluoromethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Vinyl chloride	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Xylenes, Total	450	30		µg/L	20	11/7/2023 12:07:57 PM	R101013

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: OW Eff

Project: Former Y Station

Collection Date: 11/3/2023 10:56:00 AM

Lab ID: 2311223-005

Matrix: GROUNDWA

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Surr: 1,2-Dichloroethane-d4	109	70-130	%Rec	1	1	11/6/2023 2:27:29 PM	R100965
Surr: 4-Bromofluorobenzene	99.2	70-130	%Rec	1	1	11/6/2023 2:27:29 PM	R100965
Surr: Dibromofluoromethane	105	70-130	%Rec	1	1	11/6/2023 2:27:29 PM	R100965
Surr: Toluene-d8	102	70-130	%Rec	1	1	11/6/2023 2:27:29 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Daniel B. Stephens & Assoc.**Client Sample ID:** GW System Influent**Project:** Former Y Station**Collection Date:** 11/3/2023 10:31:00 AM**Lab ID:** 2311223-006**Matrix:** GROUNDWA**Received Date:** 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	84	5.0		mg/L	10	11/3/2023 6:40:49 PM	R100957
Nitrogen, Nitrate (As N)	2.1	1.0		mg/L	10	11/3/2023 6:40:49 PM	R100957
Sulfate	46	5.0		mg/L	10	11/3/2023 6:40:49 PM	R100957
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: MCA
Total Dissolved Solids	490	250	D	mg/L	1	11/8/2023 1:45:00 PM	78630
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	14	0.96		µg/L	100	11/7/2023 8:54:09 AM	78571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	6.9	1.0		mg/L	20	11/7/2023 5:18:39 PM	GW1009
Surr: BFB	94.7	15-270		%Rec	20	11/7/2023 5:18:39 PM	GW1009
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	1100	20		µg/L	20	11/7/2023 12:36:06 PM	R101013
Toluene	750	20		µg/L	20	11/7/2023 12:36:06 PM	R101013
Ethylbenzene	71	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,2,4-Trimethylbenzene	71	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,3,5-Trimethylbenzene	26	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,2-Dichloroethane (EDC)	97	20		µg/L	20	11/7/2023 12:36:06 PM	R101013
1,2-Dibromoethane (EDB)	13	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Naphthalene	22	2.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1-Methylnaphthalene	4.1	4.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
2-Methylnaphthalene	7.1	4.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Acetone	34	10		µg/L	1	11/6/2023 2:55:54 PM	R100965
Bromobenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Bromodichloromethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Bromoform	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Bromomethane	ND	3.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
2-Butanone	26	10		µg/L	1	11/6/2023 2:55:54 PM	R100965
Carbon disulfide	ND	10		µg/L	1	11/6/2023 2:55:54 PM	R100965
Carbon Tetrachloride	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Chlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Chloroethane	ND	2.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Chloroform	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Chloromethane	ND	3.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
2-Chlorotoluene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
4-Chlorotoluene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
cis-1,2-DCE	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: GW System Influent

Project: Former Y Station

Collection Date: 11/3/2023 10:31:00 AM

Lab ID: 2311223-006

Matrix: GROUNDWA

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Dibromochloromethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Dibromomethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,1-Dichloroethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,1-Dichloroethene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,2-Dichloropropane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,3-Dichloropropane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
2,2-Dichloropropane	ND	2.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,1-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Hexachlorobutadiene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
2-Hexanone	41	10		µg/L	1	11/6/2023 2:55:54 PM	R100965
Isopropylbenzene	6.0	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
4-Isopropyltoluene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
4-Methyl-2-pentanone	13	10		µg/L	1	11/6/2023 2:55:54 PM	R100965
Methylene Chloride	ND	3.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
n-Butylbenzene	ND	3.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
n-Propylbenzene	9.6	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
sec-Butylbenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Styrene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
tert-Butylbenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
trans-1,2-DCE	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Trichlorofluoromethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Vinyl chloride	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Xylenes, Total	440	30		µg/L	20	11/7/2023 12:36:06 PM	R101013

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: GW System Influent

Project: Former Y Station

Collection Date: 11/3/2023 10:31:00 AM

Lab ID: 2311223-006

Matrix: GROUNDWA

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Surr: 1,2-Dichloroethane-d4	113	70-130	%Rec	1	1	11/6/2023 2:55:54 PM	R100965
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	1	11/6/2023 2:55:54 PM	R100965
Surr: Dibromofluoromethane	99.1	70-130	%Rec	1	1	11/6/2023 2:55:54 PM	R100965
Surr: Toluene-d8	102	70-130	%Rec	1	1	11/6/2023 2:55:54 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: GW Treated Effluent

Project: Former Y Station

Collection Date: 11/3/2023 10:45:00 AM

Lab ID: 2311223-007

Matrix: GROUNDWA

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	85	5.0		mg/L	10	11/3/2023 7:32:12 PM	R100957
Nitrogen, Nitrate (As N)	2.2	1.0		mg/L	10	11/3/2023 7:32:12 PM	R100957
Sulfate	47	5.0		mg/L	10	11/3/2023 7:32:12 PM	R100957
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: MCA
Total Dissolved Solids	520	100	*D	mg/L	1	11/8/2023 1:45:00 PM	78630
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	3.5	0.19		µg/L	20	11/7/2023 9:11:06 AM	78571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	0.38	0.050		mg/L	1	11/7/2023 5:41:59 PM	GW1009
Surr: BFB	103	15-270		%Rec	1	11/7/2023 5:41:59 PM	GW1009
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	42	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Toluene	28	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Ethylbenzene	2.1	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2,4-Trimethylbenzene	3.5	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,3,5-Trimethylbenzene	1.0	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2-Dichloroethane (EDC)	18	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2-Dibromoethane (EDB)	3.8	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Naphthalene	9.3	2.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1-Methylnaphthalene	ND	4.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
2-Methylnaphthalene	ND	4.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Acetone	36	10		µg/L	1	11/6/2023 3:24:02 PM	R100965
Bromobenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Bromodichloromethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Bromoform	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Bromomethane	ND	3.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
2-Butanone	24	10		µg/L	1	11/6/2023 3:24:02 PM	R100965
Carbon disulfide	ND	10		µg/L	1	11/6/2023 3:24:02 PM	R100965
Carbon Tetrachloride	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Chlorobenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Chloroethane	ND	2.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Chloroform	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Chloromethane	ND	3.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
2-Chlorotoluene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
4-Chlorotoluene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
cis-1,2-DCE	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: GW Treated Effluent

Project: Former Y Station

Collection Date: 11/3/2023 10:45:00 AM

Lab ID: 2311223-007

Matrix: GROUNDWA

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Dibromochloromethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Dibromomethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,1-Dichloroethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,1-Dichloroethene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2-Dichloropropane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,3-Dichloropropane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
2,2-Dichloropropane	ND	2.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,1-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Hexachlorobutadiene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
2-Hexanone	29	10		µg/L	1	11/6/2023 3:24:02 PM	R100965
Isopropylbenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
4-Isopropyltoluene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
4-Methyl-2-pentanone	ND	10		µg/L	1	11/6/2023 3:24:02 PM	R100965
Methylene Chloride	ND	3.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
n-Butylbenzene	ND	3.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
n-Propylbenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
sec-Butylbenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Styrene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
tert-Butylbenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
trans-1,2-DCE	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Trichlorofluoromethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Vinyl chloride	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Xylenes, Total	18	1.5		µg/L	1	11/6/2023 3:24:02 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: GW Treated Effluent

Project: Former Y Station

Collection Date: 11/3/2023 10:45:00 AM

Lab ID: 2311223-007

Matrix: GROUNDWA

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	1	11/6/2023 3:24:02 PM	R100965
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	1	11/6/2023 3:24:02 PM	R100965
Surr: Dibromofluoromethane	104	70-130	%Rec	1	1	11/6/2023 3:24:02 PM	R100965
Surr: Toluene-d8	101	70-130	%Rec	1	1	11/6/2023 3:24:02 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: DTA Effluent

Project: Former Y Station

Collection Date: 11/3/2023 11:46:00 AM

Lab ID: 2311223-008

Matrix: AIR

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	18	5.0		µg/L	1	11/9/2023 6:30:17 PM	GA10106
Surr: BFB	98.4	15-412		%Rec	1	11/9/2023 6:30:17 PM	GA10106
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	11/9/2023 6:30:17 PM	BA10106
Benzene	0.27	0.10		µg/L	1	11/9/2023 6:30:17 PM	BA10106
Toluene	1.3	0.10		µg/L	1	11/9/2023 6:30:17 PM	BA10106
Ethylbenzene	0.27	0.10		µg/L	1	11/9/2023 6:30:17 PM	BA10106
Xylenes, Total	1.9	0.20		µg/L	1	11/9/2023 6:30:17 PM	BA10106
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	11/9/2023 6:30:17 PM	BA10106

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	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y Station

Collection Date:

Lab ID: 2311223-009

Matrix: TRIP BLANK

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.0093		µg/L	1	11/6/2023 6:55:42 PM	78571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/7/2023 6:05:25 PM	GW1009
Surr: BFB	92.7	15-270		%Rec	1	11/7/2023 6:05:25 PM	GW1009
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Toluene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Ethylbenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Naphthalene	ND	2.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1-Methylnaphthalene	ND	4.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
2-Methylnaphthalene	ND	4.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Acetone	ND	10		µg/L	1	11/6/2023 1:59:22 PM	R100965
Bromobenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Bromodichloromethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Bromoform	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Bromomethane	ND	3.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
2-Butanone	ND	10		µg/L	1	11/6/2023 1:59:22 PM	R100965
Carbon disulfide	ND	10		µg/L	1	11/6/2023 1:59:22 PM	R100965
Carbon Tetrachloride	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Chlorobenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Chloroethane	ND	2.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Chloroform	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Chloromethane	ND	3.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
2-Chlorotoluene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
4-Chlorotoluene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
cis-1,2-DCE	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Dibromochloromethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Dibromomethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y Station

Collection Date:

Lab ID: 2311223-009

Matrix: TRIP BLANK

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,1-Dichloroethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,1-Dichloroethene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2-Dichloropropane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,3-Dichloropropane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
2,2-Dichloropropane	ND	2.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,1-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Hexachlorobutadiene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
2-Hexanone	ND	10		µg/L	1	11/6/2023 1:59:22 PM	R100965
Isopropylbenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
4-Isopropyltoluene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
4-Methyl-2-pentanone	ND	10		µg/L	1	11/6/2023 1:59:22 PM	R100965
Methylene Chloride	ND	3.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
n-Butylbenzene	ND	3.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
n-Propylbenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
sec-Butylbenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Styrene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
tert-Butylbenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
trans-1,2-DCE	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Trichlorofluoromethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Vinyl chloride	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Xylenes, Total	ND	1.5		µg/L	1	11/6/2023 1:59:22 PM	R100965
Surr: 1,2-Dichloroethane-d4	95.4	70-130		%Rec	1	11/6/2023 1:59:22 PM	R100965
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/6/2023 1:59:22 PM	R100965
Surr: Dibromofluoromethane	99.9	70-130		%Rec	1	11/6/2023 1:59:22 PM	R100965
Surr: Toluene-d8	99.5	70-130		%Rec	1	11/6/2023 1:59:22 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R100957	RunNo: 100957								
Prep Date:	Analysis Date: 11/3/2023	SeqNo: 3705390	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R100957	RunNo: 100957								
Prep Date:	Analysis Date: 11/3/2023	SeqNo: 3705392	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	4.7	0.50	5.000	0	93.8	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	96.7	90	110			
Sulfate	9.5	0.50	10.00	0	94.5	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: MB-78571	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 78571	RunNo: 100988								
Prep Date: 11/6/2023	Analysis Date: 11/6/2023	SeqNo: 3707071	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-78571	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 78571	RunNo: 100988								
Prep Date: 11/6/2023	Analysis Date: 11/6/2023	SeqNo: 3707072	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.11	0.010	0.1000	0	114	70	130			

Sample ID: LCSD-78571	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 78571	RunNo: 100988								
Prep Date: 11/6/2023	Analysis Date: 11/6/2023	SeqNo: 3707073	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	117	70	130	2.43	20	

Sample ID: MB-78571	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 78571	RunNo: 100988								
Prep Date: 11/6/2023	Analysis Date: 11/6/2023	SeqNo: 3707092	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-78571	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 78571	RunNo: 100988								
Prep Date: 11/6/2023	Analysis Date: 11/6/2023	SeqNo: 3707093	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	124	70	130			

Sample ID: LCSD-78571	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 78571	RunNo: 100988								
Prep Date: 11/6/2023	Analysis Date: 11/6/2023	SeqNo: 3707094	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	120	70	130	3.09	20	

Qualifiers:

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- H Holding times for preparation or analysis exceeded
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- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.**Project:** Former Y Station

Sample ID: 2311223-002adup	SampType: DUP	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: Former Y SVE Comb	Batch ID: GA101066	RunNo: 101066								
Prep Date:	Analysis Date: 11/9/2023	SeqNo: 3710938 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	36000	500						0.861	20	
Surr: BFB	230000		200000		114	15	412	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: GW100993		RunNo: 100993							
Prep Date:	Analysis Date: 11/7/2023		SeqNo: 3708294		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.48	0.050	0.5000	0	95.8	70	130			
Surr: BFB	39		20.00		196	15	270			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: GW100993		RunNo: 100993							
Prep Date:	Analysis Date: 11/7/2023		SeqNo: 3708295		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		93.5	15	270			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: GA101066		RunNo: 101066							
Prep Date:	Analysis Date: 11/9/2023		SeqNo: 3710926		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	93.4	70	130			
Surr: BFB	39		20.00		197	15	270			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: GA101066		RunNo: 101066							
Prep Date:	Analysis Date: 11/9/2023		SeqNo: 3710927		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		91.7	15	270			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: 2311223-002adup	SampType: DUP	TestCode: EPA Method 8021B: Volatiles								
Client ID: Former Y SVE Comb	Batch ID: BA101066	RunNo: 101066								
Prep Date:	Analysis Date: 11/9/2023	SeqNo: 3710940 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	25						0	20	
Benzene	440	10						0.445	20	
Toluene	890	10						1.47	20	
Ethylbenzene	69	10						4.76	20	
Xylenes, Total	330	20						4.34	20	
Surr: 4-Bromofluorobenzene	190		200.0		93.1	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: 100ng lcs	SampType: LCS		TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch ID: R100965		RunNo: 100965							
Prep Date:	Analysis Date: 11/6/2023		SeqNo: 3706262		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.6	70	130			
Toluene	20	1.0	20.00	0	98.5	70	130			
Chlorobenzene	20	1.0	20.00	0	100	70	130			
1,1-Dichloroethene	17	1.0	20.00	0	84.4	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	87.2	70	130			
Surr: 1,2-Dichloroethane-d4	8.9		10.00		89.0	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	9.5		10.00		94.6	70	130			
Surr: Toluene-d8	10		10.00		99.6	70	130			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R100965		RunNo: 100965							
Prep Date:	Analysis Date: 11/6/2023		SeqNo: 3706307		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R100965	RunNo: 100965								
Prep Date:	Analysis Date: 11/6/2023	SeqNo: 3706307			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R100965		RunNo: 100965							
Prep Date:	Analysis Date: 11/6/2023		SeqNo: 3706307		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.4	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.4	70	130			
Surr: Toluene-d8	9.9		10.00		98.9	70	130			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Above Quantitation Range/Estimated Value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of standard limits. If undiluted results may be estimated. | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: MB-78595	SampType: MBLK		TestCode: SM2540C MOD: Total Dissolved Solids							
Client ID: PBW	Batch ID: 78595		RunNo: 101006							
Prep Date: 11/6/2023	Analysis Date: 11/7/2023		SeqNo: 3707659		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: LCS-78595	SampType: LCS		TestCode: SM2540C MOD: Total Dissolved Solids							
Client ID: LCSW	Batch ID: 78595		RunNo: 101006							
Prep Date: 11/6/2023	Analysis Date: 11/7/2023		SeqNo: 3707660		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	997	50.0	1000	0	99.7	80	120			

Sample ID: MB-78630	SampType: MBLK		TestCode: SM2540C MOD: Total Dissolved Solids							
Client ID: PBW	Batch ID: 78630		RunNo: 101038							
Prep Date: 11/7/2023	Analysis Date: 11/8/2023		SeqNo: 3709142		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: LCS-78630	SampType: LCS		TestCode: SM2540C MOD: Total Dissolved Solids							
Client ID: LCSW	Batch ID: 78630		RunNo: 101038							
Prep Date: 11/7/2023	Analysis Date: 11/8/2023		SeqNo: 3709143		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	50.0	1000	0	101	80	120			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Above Quantitation Range/Estimated Value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of standard limits. If undiluted results may be estimated. | |

Sample Log-In Check List

Client Name: Daniel B. Stephens & Work Order Number: 2311223 RcptNo: 1

Received By: Joseph Alderette 11/3/2023 4:24:00 PM

Completed By: Desiree Dominguez 11/3/2023 4:32:45 PM

Reviewed By: *JA 11-6-23*

Unpres Reviewed by: *JA 11-3-23*

JA
DD

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present

2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes No NA

4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA

5. Sample(s) in proper container(s)? Yes No

6. Sufficient sample volume for indicated test(s)? Yes No

7. Are samples (except VOA and ONG) properly preserved? Yes No

8. Was preservative added to bottles? Yes No NA

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA

10. Were any sample containers received broken? Yes No

11. Does paperwork match bottle labels? Yes No

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes No

13. Is it clear what analyses were requested? Yes No

14. Were all holding times able to be met? Yes No

(If no, notify customer for authorization.)

of preserved bottles checked for pH: 3
(<2 or >12 unless noted)
Adjusted? NO
Checked by: SEM 11/6/23

unpres L.B DAD 11-3-23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Not Present	Yogi		

Chain-of-Custody Record

Client: DBSA

Mailing Address: 6020 Academy Rd NE
STE 100, Albuquerque NM 87109

Phone #: 505-822-9400

email or Fax#: Tgolden@geo-logic.com

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other _____

EDD (Type) _____

Turn-Around Time:
 Standard Rush _____

Project Name:
Former Y Station

Project #:
DB18.1157

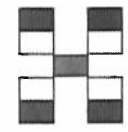
Project Manager:
T. Golden

Sampler: A TORRES

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 3.6-0 = 3.6 deg. (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. <u>2311223</u>	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA) 8260 *	Total Coliform (Present/Absent)	8015B GRO *	TDS	Sulfate	Chloride	Nitrate	
11/01/23	14:05	Air	Former Y oxidizer Effluent	Varies	Varies	-001	X	X														
	14:24		Former Y SVE Combined Inflow			-002	X	X														
11/03/23	11:21		Former Y oxidizer Effluent			-003	X	X														
11/3/23	11:34		Former Y SVE Combined Inflow			-004	X	X														
	1056	GW	DW eff			-005				X					X		X	X	X	X	X	X
	1031		GW system Inflow			-006				X					X		X	X	X	X	X	X
	1045		GW Treated effluent			-007				X					X		X	X	X	X	X	X
	11:46	AIR	DTA effluent			-008	X	X														
			TRIP Blank			-009																

Date: 11/3/23 Time: 16:24 Relinquished by: [Signature]

Received by: [Signature] Via: COO Date: 11-3-23 Time: 16:24

Date: _____ Time: _____ Relinquished by: _____

Received by: _____ Via: _____ Date: _____ Time: _____

Remarks: * Per I.T. > DAD 11/3/23

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.

November 15, 2023

Tom Golden

Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL: (505) 822-9400
FAX:

RE: Former Y Station

OrderNo.: 2311223

Dear Tom Golden:

Eurofins Environment Testing South Central, LLC received 9 sample(s) on 11/3/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Former Y Oxidizer Effluent

Project: Former Y Station

Collection Date: 11/1/2023 2:05:00 PM

Lab ID: 2311223-001

Matrix: AIR

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	6500	250		µg/L	50	11/8/2023 4:44:00 PM	R101035
Surr: BFB	97.2	15-412		%Rec	50	11/8/2023 4:44:00 PM	R101035
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Methyl tert-butyl ether (MTBE)	ND	12		µg/L	50	11/8/2023 4:44:00 PM	R101035
Benzene	150	5.0		µg/L	50	11/8/2023 4:44:00 PM	R101035
Toluene	160	5.0		µg/L	50	11/8/2023 4:44:00 PM	R101035
Ethylbenzene	15	5.0		µg/L	50	11/8/2023 4:44:00 PM	R101035
Xylenes, Total	47	10		µg/L	50	11/8/2023 4:44:00 PM	R101035
Surr: 4-Bromofluorobenzene	76.2	70-130		%Rec	50	11/8/2023 4:44:00 PM	R101035

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Former Y SVE Combined Influe

Project: Former Y Station

Collection Date: 11/1/2023 2:24:00 PM

Lab ID: 2311223-002

Matrix: AIR

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	36000	500		µg/L	100	11/9/2023 4:08:48 PM	GA10106
Surr: BFB	110	15-412		%Rec	100	11/9/2023 4:08:48 PM	GA10106
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	100	11/9/2023 4:08:48 PM	BA10106
Benzene	450	10		µg/L	100	11/9/2023 4:08:48 PM	BA10106
Toluene	880	10		µg/L	100	11/9/2023 4:08:48 PM	BA10106
Ethylbenzene	66	10		µg/L	100	11/9/2023 4:08:48 PM	BA10106
Xylenes, Total	320	20		µg/L	100	11/9/2023 4:08:48 PM	BA10106
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	100	11/9/2023 4:08:48 PM	BA10106

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Former Y Oxidizer Effluent

Project: Former Y Station

Collection Date: 11/3/2023 11:21:00 AM

Lab ID: 2311223-003

Matrix: AIR

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	4400	250		µg/L	50	11/9/2023 4:32:26 PM	GA10106
Surr: BFB	95.4	15-412		%Rec	50	11/9/2023 4:32:26 PM	GA10106
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	12		µg/L	50	11/9/2023 4:32:26 PM	BA10106
Benzene	190	5.0		µg/L	50	11/9/2023 4:32:26 PM	BA10106
Toluene	230	5.0		µg/L	50	11/9/2023 4:32:26 PM	BA10106
Ethylbenzene	23	5.0		µg/L	50	11/9/2023 4:32:26 PM	BA10106
Xylenes, Total	80	10		µg/L	50	11/9/2023 4:32:26 PM	BA10106
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	50	11/9/2023 4:32:26 PM	BA10106

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Former Y SVE Combined Influe

Project: Former Y Station

Collection Date: 11/3/2023 11:34:00 AM

Lab ID: 2311223-004

Matrix: AIR

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	34000	500		µg/L	100	11/9/2023 5:19:39 PM	GA10106
Surr: BFB	109	15-412		%Rec	100	11/9/2023 5:19:39 PM	GA10106
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	100	11/9/2023 5:19:39 PM	BA10106
Benzene	490	10		µg/L	100	11/9/2023 5:19:39 PM	BA10106
Toluene	1000	10	E	µg/L	100	11/9/2023 5:19:39 PM	BA10106
Ethylbenzene	80	10		µg/L	100	11/9/2023 5:19:39 PM	BA10106
Xylenes, Total	410	20		µg/L	100	11/9/2023 5:19:39 PM	BA10106
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	100	11/9/2023 5:19:39 PM	BA10106

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: OW Eff

Project: Former Y Station

Collection Date: 11/3/2023 10:56:00 AM

Lab ID: 2311223-005

Matrix: GROUNDWA

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	84	5.0		mg/L	10	11/3/2023 6:13:04 PM	R100957
Nitrogen, Nitrate (As N)	2.1	1.0		mg/L	10	11/3/2023 6:13:04 PM	R100957
Sulfate	46	5.0		mg/L	10	11/3/2023 6:13:04 PM	R100957
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: MCA
Total Dissolved Solids	315	250	D	mg/L	1	11/7/2023 3:39:00 PM	78595
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	15	0.95		µg/L	100	11/7/2023 8:37:12 AM	78571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	6.7	1.0		mg/L	20	11/7/2023 4:55:18 PM	GW1009
Surr: BFB	95.3	15-270		%Rec	20	11/7/2023 4:55:18 PM	GW1009
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	1100	20		µg/L	20	11/7/2023 12:07:57 PM	R101013
Toluene	770	20		µg/L	20	11/7/2023 12:07:57 PM	R101013
Ethylbenzene	65	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,2,4-Trimethylbenzene	70	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,3,5-Trimethylbenzene	27	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,2-Dichloroethane (EDC)	97	20		µg/L	20	11/7/2023 12:07:57 PM	R101013
1,2-Dibromoethane (EDB)	14	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Naphthalene	24	2.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1-Methylnaphthalene	4.9	4.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
2-Methylnaphthalene	8.3	4.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Acetone	53	10		µg/L	1	11/6/2023 2:27:29 PM	R100965
Bromobenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Bromodichloromethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Bromoform	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Bromomethane	ND	3.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
2-Butanone	39	10		µg/L	1	11/6/2023 2:27:29 PM	R100965
Carbon disulfide	ND	10		µg/L	1	11/6/2023 2:27:29 PM	R100965
Carbon Tetrachloride	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Chlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Chloroethane	ND	2.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Chloroform	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Chloromethane	ND	3.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
2-Chlorotoluene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
4-Chlorotoluene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
cis-1,2-DCE	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: OW Eff

Project: Former Y Station

Collection Date: 11/3/2023 10:56:00 AM

Lab ID: 2311223-005

Matrix: GROUNDWA

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Dibromochloromethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Dibromomethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,1-Dichloroethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,1-Dichloroethene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,2-Dichloropropane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,3-Dichloropropane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
2,2-Dichloropropane	ND	2.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,1-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Hexachlorobutadiene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
2-Hexanone	45	10		µg/L	1	11/6/2023 2:27:29 PM	R100965
Isopropylbenzene	5.5	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
4-Isopropyltoluene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
4-Methyl-2-pentanone	14	10		µg/L	1	11/6/2023 2:27:29 PM	R100965
Methylene Chloride	ND	3.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
n-Butylbenzene	ND	3.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
n-Propylbenzene	9.1	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
sec-Butylbenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Styrene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
tert-Butylbenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
trans-1,2-DCE	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Trichlorofluoromethane	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Vinyl chloride	ND	1.0		µg/L	1	11/6/2023 2:27:29 PM	R100965
Xylenes, Total	450	30		µg/L	20	11/7/2023 12:07:57 PM	R101013

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: OW Eff

Project: Former Y Station

Collection Date: 11/3/2023 10:56:00 AM

Lab ID: 2311223-005

Matrix: GROUNDWA

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Surr: 1,2-Dichloroethane-d4	109	70-130	%Rec	1	1	11/6/2023 2:27:29 PM	R100965
Surr: 4-Bromofluorobenzene	99.2	70-130	%Rec	1	1	11/6/2023 2:27:29 PM	R100965
Surr: Dibromofluoromethane	105	70-130	%Rec	1	1	11/6/2023 2:27:29 PM	R100965
Surr: Toluene-d8	102	70-130	%Rec	1	1	11/6/2023 2:27:29 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Daniel B. Stephens & Assoc.**Client Sample ID:** GW System Influent**Project:** Former Y Station**Collection Date:** 11/3/2023 10:31:00 AM**Lab ID:** 2311223-006**Matrix:** GROUNDWA**Received Date:** 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	84	5.0		mg/L	10	11/3/2023 6:40:49 PM	R100957
Nitrogen, Nitrate (As N)	2.1	1.0		mg/L	10	11/3/2023 6:40:49 PM	R100957
Sulfate	46	5.0		mg/L	10	11/3/2023 6:40:49 PM	R100957
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: MCA
Total Dissolved Solids	490	250	D	mg/L	1	11/8/2023 1:45:00 PM	78630
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	14	0.96		µg/L	100	11/7/2023 8:54:09 AM	78571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	6.9	1.0		mg/L	20	11/7/2023 5:18:39 PM	GW1009
Surr: BFB	94.7	15-270		%Rec	20	11/7/2023 5:18:39 PM	GW1009
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	1100	20		µg/L	20	11/7/2023 12:36:06 PM	R101013
Toluene	750	20		µg/L	20	11/7/2023 12:36:06 PM	R101013
Ethylbenzene	71	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,2,4-Trimethylbenzene	71	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,3,5-Trimethylbenzene	26	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,2-Dichloroethane (EDC)	97	20		µg/L	20	11/7/2023 12:36:06 PM	R101013
1,2-Dibromoethane (EDB)	13	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Naphthalene	22	2.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1-Methylnaphthalene	4.1	4.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
2-Methylnaphthalene	7.1	4.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Acetone	34	10		µg/L	1	11/6/2023 2:55:54 PM	R100965
Bromobenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Bromodichloromethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Bromoform	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Bromomethane	ND	3.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
2-Butanone	26	10		µg/L	1	11/6/2023 2:55:54 PM	R100965
Carbon disulfide	ND	10		µg/L	1	11/6/2023 2:55:54 PM	R100965
Carbon Tetrachloride	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Chlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Chloroethane	ND	2.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Chloroform	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Chloromethane	ND	3.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
2-Chlorotoluene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
4-Chlorotoluene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
cis-1,2-DCE	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: GW System Influent

Project: Former Y Station

Collection Date: 11/3/2023 10:31:00 AM

Lab ID: 2311223-006

Matrix: GROUNDWA

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Dibromochloromethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Dibromomethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,1-Dichloroethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,1-Dichloroethene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,2-Dichloropropane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,3-Dichloropropane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
2,2-Dichloropropane	ND	2.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,1-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Hexachlorobutadiene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
2-Hexanone	41	10		µg/L	1	11/6/2023 2:55:54 PM	R100965
Isopropylbenzene	6.0	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
4-Isopropyltoluene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
4-Methyl-2-pentanone	13	10		µg/L	1	11/6/2023 2:55:54 PM	R100965
Methylene Chloride	ND	3.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
n-Butylbenzene	ND	3.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
n-Propylbenzene	9.6	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
sec-Butylbenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Styrene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
tert-Butylbenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
trans-1,2-DCE	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Trichlorofluoromethane	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Vinyl chloride	ND	1.0		µg/L	1	11/6/2023 2:55:54 PM	R100965
Xylenes, Total	440	30		µg/L	20	11/7/2023 12:36:06 PM	R101013

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: GW System Influent

Project: Former Y Station

Collection Date: 11/3/2023 10:31:00 AM

Lab ID: 2311223-006

Matrix: GROUNDWA

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Surr: 1,2-Dichloroethane-d4	113	70-130	%Rec	1	1	11/6/2023 2:55:54 PM	R100965
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	1	11/6/2023 2:55:54 PM	R100965
Surr: Dibromofluoromethane	99.1	70-130	%Rec	1	1	11/6/2023 2:55:54 PM	R100965
Surr: Toluene-d8	102	70-130	%Rec	1	1	11/6/2023 2:55:54 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: GW Treated Effluent

Project: Former Y Station

Collection Date: 11/3/2023 10:45:00 AM

Lab ID: 2311223-007

Matrix: GROUNDWA

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	85	5.0		mg/L	10	11/3/2023 7:32:12 PM	R100957
Nitrogen, Nitrate (As N)	2.2	1.0		mg/L	10	11/3/2023 7:32:12 PM	R100957
Sulfate	47	5.0		mg/L	10	11/3/2023 7:32:12 PM	R100957
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: MCA
Total Dissolved Solids	520	100	*D	mg/L	1	11/8/2023 1:45:00 PM	78630
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	3.5	0.19		µg/L	20	11/7/2023 9:11:06 AM	78571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	0.38	0.050		mg/L	1	11/7/2023 5:41:59 PM	GW1009
Surr: BFB	103	15-270		%Rec	1	11/7/2023 5:41:59 PM	GW1009
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	42	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Toluene	28	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Ethylbenzene	2.1	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2,4-Trimethylbenzene	3.5	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,3,5-Trimethylbenzene	1.0	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2-Dichloroethane (EDC)	18	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2-Dibromoethane (EDB)	3.8	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Naphthalene	9.3	2.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1-Methylnaphthalene	ND	4.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
2-Methylnaphthalene	ND	4.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Acetone	36	10		µg/L	1	11/6/2023 3:24:02 PM	R100965
Bromobenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Bromodichloromethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Bromoform	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Bromomethane	ND	3.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
2-Butanone	24	10		µg/L	1	11/6/2023 3:24:02 PM	R100965
Carbon disulfide	ND	10		µg/L	1	11/6/2023 3:24:02 PM	R100965
Carbon Tetrachloride	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Chlorobenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Chloroethane	ND	2.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Chloroform	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Chloromethane	ND	3.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
2-Chlorotoluene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
4-Chlorotoluene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
cis-1,2-DCE	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: GW Treated Effluent

Project: Former Y Station

Collection Date: 11/3/2023 10:45:00 AM

Lab ID: 2311223-007

Matrix: GROUNDWA

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Dibromochloromethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Dibromomethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,1-Dichloroethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,1-Dichloroethene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2-Dichloropropane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,3-Dichloropropane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
2,2-Dichloropropane	ND	2.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,1-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Hexachlorobutadiene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
2-Hexanone	29	10		µg/L	1	11/6/2023 3:24:02 PM	R100965
Isopropylbenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
4-Isopropyltoluene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
4-Methyl-2-pentanone	ND	10		µg/L	1	11/6/2023 3:24:02 PM	R100965
Methylene Chloride	ND	3.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
n-Butylbenzene	ND	3.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
n-Propylbenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
sec-Butylbenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Styrene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
tert-Butylbenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
trans-1,2-DCE	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Trichlorofluoromethane	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Vinyl chloride	ND	1.0		µg/L	1	11/6/2023 3:24:02 PM	R100965
Xylenes, Total	18	1.5		µg/L	1	11/6/2023 3:24:02 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: GW Treated Effluent

Project: Former Y Station

Collection Date: 11/3/2023 10:45:00 AM

Lab ID: 2311223-007

Matrix: GROUNDWA

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	1	11/6/2023 3:24:02 PM	R100965
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	1	11/6/2023 3:24:02 PM	R100965
Surr: Dibromofluoromethane	104	70-130	%Rec	1	1	11/6/2023 3:24:02 PM	R100965
Surr: Toluene-d8	101	70-130	%Rec	1	1	11/6/2023 3:24:02 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: DTA Effluent

Project: Former Y Station

Collection Date: 11/3/2023 11:46:00 AM

Lab ID: 2311223-008

Matrix: AIR

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	18	5.0		µg/L	1	11/9/2023 6:30:17 PM	GA10106
Surr: BFB	98.4	15-412		%Rec	1	11/9/2023 6:30:17 PM	GA10106
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	11/9/2023 6:30:17 PM	BA10106
Benzene	0.27	0.10		µg/L	1	11/9/2023 6:30:17 PM	BA10106
Toluene	1.3	0.10		µg/L	1	11/9/2023 6:30:17 PM	BA10106
Ethylbenzene	0.27	0.10		µg/L	1	11/9/2023 6:30:17 PM	BA10106
Xylenes, Total	1.9	0.20		µg/L	1	11/9/2023 6:30:17 PM	BA10106
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	11/9/2023 6:30:17 PM	BA10106

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y Station

Collection Date:

Lab ID: 2311223-009

Matrix: TRIP BLANK

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.0093		µg/L	1	11/6/2023 6:55:42 PM	78571
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/7/2023 6:05:25 PM	GW1009
Surr: BFB	92.7	15-270		%Rec	1	11/7/2023 6:05:25 PM	GW1009
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Toluene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Ethylbenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Naphthalene	ND	2.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1-Methylnaphthalene	ND	4.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
2-Methylnaphthalene	ND	4.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Acetone	ND	10		µg/L	1	11/6/2023 1:59:22 PM	R100965
Bromobenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Bromodichloromethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Bromoform	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Bromomethane	ND	3.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
2-Butanone	ND	10		µg/L	1	11/6/2023 1:59:22 PM	R100965
Carbon disulfide	ND	10		µg/L	1	11/6/2023 1:59:22 PM	R100965
Carbon Tetrachloride	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Chlorobenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Chloroethane	ND	2.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Chloroform	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Chloromethane	ND	3.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
2-Chlorotoluene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
4-Chlorotoluene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
cis-1,2-DCE	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Dibromochloromethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Dibromomethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311223

Date Reported: 11/15/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y Station

Collection Date:

Lab ID: 2311223-009

Matrix: TRIP BLANK

Received Date: 11/3/2023 4:24:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,1-Dichloroethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,1-Dichloroethene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2-Dichloropropane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,3-Dichloropropane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
2,2-Dichloropropane	ND	2.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,1-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Hexachlorobutadiene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
2-Hexanone	ND	10		µg/L	1	11/6/2023 1:59:22 PM	R100965
Isopropylbenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
4-Isopropyltoluene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
4-Methyl-2-pentanone	ND	10		µg/L	1	11/6/2023 1:59:22 PM	R100965
Methylene Chloride	ND	3.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
n-Butylbenzene	ND	3.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
n-Propylbenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
sec-Butylbenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Styrene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
tert-Butylbenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
trans-1,2-DCE	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Trichlorofluoromethane	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Vinyl chloride	ND	1.0		µg/L	1	11/6/2023 1:59:22 PM	R100965
Xylenes, Total	ND	1.5		µg/L	1	11/6/2023 1:59:22 PM	R100965
Surr: 1,2-Dichloroethane-d4	95.4	70-130		%Rec	1	11/6/2023 1:59:22 PM	R100965
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/6/2023 1:59:22 PM	R100965
Surr: Dibromofluoromethane	99.9	70-130		%Rec	1	11/6/2023 1:59:22 PM	R100965
Surr: Toluene-d8	99.5	70-130		%Rec	1	11/6/2023 1:59:22 PM	R100965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R100957	RunNo: 100957								
Prep Date:	Analysis Date: 11/3/2023	SeqNo: 3705390	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R100957	RunNo: 100957								
Prep Date:	Analysis Date: 11/3/2023	SeqNo: 3705392	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	4.7	0.50	5.000	0	93.8	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	96.7	90	110			
Sulfate	9.5	0.50	10.00	0	94.5	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: MB-78571	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 78571	RunNo: 100988								
Prep Date: 11/6/2023	Analysis Date: 11/6/2023	SeqNo: 3707071	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-78571	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 78571	RunNo: 100988								
Prep Date: 11/6/2023	Analysis Date: 11/6/2023	SeqNo: 3707072	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.11	0.010	0.1000	0	114	70	130			

Sample ID: LCSD-78571	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 78571	RunNo: 100988								
Prep Date: 11/6/2023	Analysis Date: 11/6/2023	SeqNo: 3707073	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	117	70	130	2.43	20	

Sample ID: MB-78571	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 78571	RunNo: 100988								
Prep Date: 11/6/2023	Analysis Date: 11/6/2023	SeqNo: 3707092	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-78571	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 78571	RunNo: 100988								
Prep Date: 11/6/2023	Analysis Date: 11/6/2023	SeqNo: 3707093	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	124	70	130			

Sample ID: LCSD-78571	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 78571	RunNo: 100988								
Prep Date: 11/6/2023	Analysis Date: 11/6/2023	SeqNo: 3707094	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	120	70	130	3.09	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.**Project:** Former Y Station

Sample ID: 2311223-002adup	SampType: DUP	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: Former Y SVE Comb	Batch ID: GA101066	RunNo: 101066								
Prep Date:	Analysis Date: 11/9/2023	SeqNo: 3710938 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	36000	500						0.861	20	
Surr: BFB	230000		200000		114	15	412	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: GW100993		RunNo: 100993							
Prep Date:	Analysis Date: 11/7/2023		SeqNo: 3708294		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.48	0.050	0.5000	0	95.8	70	130			
Surr: BFB	39		20.00		196	15	270			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: GW100993		RunNo: 100993							
Prep Date:	Analysis Date: 11/7/2023		SeqNo: 3708295		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		93.5	15	270			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: GA101066		RunNo: 101066							
Prep Date:	Analysis Date: 11/9/2023		SeqNo: 3710926		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	93.4	70	130			
Surr: BFB	39		20.00		197	15	270			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: GA101066		RunNo: 101066							
Prep Date:	Analysis Date: 11/9/2023		SeqNo: 3710927		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		91.7	15	270			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: 2311223-002adup	SampType: DUP	TestCode: EPA Method 8021B: Volatiles								
Client ID: Former Y SVE Comb	Batch ID: BA101066	RunNo: 101066								
Prep Date:	Analysis Date: 11/9/2023	SeqNo: 3710940 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	25						0	20	
Benzene	440	10						0.445	20	
Toluene	890	10						1.47	20	
Ethylbenzene	69	10						4.76	20	
Xylenes, Total	330	20						4.34	20	
Surr: 4-Bromofluorobenzene	190		200.0		93.1	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: 100ng lcs	SampType: LCS		TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch ID: R100965		RunNo: 100965							
Prep Date:	Analysis Date: 11/6/2023		SeqNo: 3706262		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.6	70	130			
Toluene	20	1.0	20.00	0	98.5	70	130			
Chlorobenzene	20	1.0	20.00	0	100	70	130			
1,1-Dichloroethene	17	1.0	20.00	0	84.4	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	87.2	70	130			
Surr: 1,2-Dichloroethane-d4	8.9		10.00		89.0	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	9.5		10.00		94.6	70	130			
Surr: Toluene-d8	10		10.00		99.6	70	130			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R100965		RunNo: 100965							
Prep Date:	Analysis Date: 11/6/2023		SeqNo: 3706307		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R100965		RunNo: 100965							
Prep Date:	Analysis Date: 11/6/2023		SeqNo: 3706307		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R100965		RunNo: 100965							
Prep Date:	Analysis Date: 11/6/2023		SeqNo: 3706307		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.4	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.4	70	130			
Surr: Toluene-d8	9.9		10.00		98.9	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311223

15-Nov-23

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: MB-78595	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 78595	RunNo: 101006								
Prep Date: 11/6/2023	Analysis Date: 11/7/2023	SeqNo: 3707659	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: LCS-78595	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 78595	RunNo: 101006								
Prep Date: 11/6/2023	Analysis Date: 11/7/2023	SeqNo: 3707660	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	997	50.0	1000	0	99.7	80	120			

Sample ID: MB-78630	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 78630	RunNo: 101038								
Prep Date: 11/7/2023	Analysis Date: 11/8/2023	SeqNo: 3709142	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: LCS-78630	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 78630	RunNo: 101038								
Prep Date: 11/7/2023	Analysis Date: 11/8/2023	SeqNo: 3709143	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	50.0	1000	0	101	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Sample Log-In Check List

Client Name: Daniel B. Stephens & Work Order Number: 2311223 RcptNo: 1

Received By: Joseph Alderette 11/3/2023 4:24:00 PM

Completed By: Desiree Dominguez 11/3/2023 4:32:45 PM

Reviewed By: JA 11-6-23

unpres Reviewed by: JA 11-3-23

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present

2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes No NA

4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA

5. Sample(s) in proper container(s)? Yes No

6. Sufficient sample volume for indicated test(s)? Yes No

7. Are samples (except VOA and ONG) properly preserved? Yes No

8. Was preservative added to bottles? Yes No NA

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA

10. Were any sample containers received broken? Yes No

11. Does paperwork match bottle labels? Yes No

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes No

13. Is it clear what analyses were requested? Yes No

14. Were all holding times able to be met? Yes No

(If no, notify customer for authorization.)

of preserved bottles checked for pH: 3
(<2 or >12 unless noted)
Adjusted? NO
Checked by: SEM 11/6/23

unpres L.B DAD 11-3-23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Not Present	Yogi		

Chain-of-Custody Record

Client: DBSA

Mailing Address: 6020 Academy Rd NE
STE 100, Albuquerque NM 87109

Phone #: 505-822-9400

email or Fax#: Tgolden@geo-logic.com

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other _____

EDD (Type) _____

Turn-Around Time:
 Standard Rush _____

Project Name:
Former Y Station

Project #:
DB18.1157

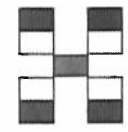
Project Manager:
T. Golden

Sampler: A TORRES

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 3.6-0 = 3.6 deg. (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. <u>2311223</u>	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA) 8260 *	Total Coliform (Present/Absent)	8015B GRO *	TDS	Sulfate	Chloride	Nitrate	
11/01/23	14:05	Air	Former Y oxidizer Effluent	Varies	Varies	-001	X	X														
	14:24		Former Y SVE Combined Inflow			-002	X	X														
11/03/23	11:21		Former Y oxidizer Effluent			-003	X	X														
11/3/23	11:34		Former Y SVE Combined Inflow			-004	X	X														
	1056	GW	DW eff			-005				X					X		X	X	X	X	X	X
	1031		GW system Inflow			-006				X					X		X	X	X	X	X	X
	1045		GW Treated effluent			-007				X					X		X	X	X	X	X	X
	11:46	AIR	DTA effluent			-008	X	X														
			TRIP Blank			-009																

Date: 11/3/23 Time: 16:24 Relinquished by: [Signature]

Received by: [Signature] Via: COO Date: 11-3-23 Time: 16:24

Date: _____ Time: _____ Relinquished by: _____

Received by: _____ Via: _____ Date: _____ Time: _____

Remarks: * Per I.T. > DAD 11/3/23

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.



ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Hermann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 11/14/2023 11:12:15 AM

JOB DESCRIPTION

Former Y
DB18.1157

JOB NUMBER

860-61168-1

Eurofins Houston

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
11/14/2023 11:12:15 AM

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	8
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	15
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	21

Definitions/Glossary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 860-61168-1
SDG: DB18.1157

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 860-61168-1
SDG: DB18.1157

Job ID: 860-61168-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-61168-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/10/2023 10:09 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 20.0°C

GC/MS VOA

Method 8260C_GRO: The following samples were diluted to bring the concentration of target analytes within the calibration range: Manifold Infl (860-61168-1), Oxidizer Effl (860-61168-2) and DTA Discharge (860-61168-3). Elevated reporting limits (RLs) are provided.

Method 8260C_MOD: The following samples were diluted to bring the concentration of target analytes within the calibration range: Manifold Infl (860-61168-1), Oxidizer Effl (860-61168-2) and DTA Discharge (860-61168-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 860-61168-1
SDG: DB18.1157

Client Sample ID: Manifold Infl

Lab Sample ID: 860-61168-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics	13800		250	125	mg/m3	5		8260C GRO	Total/NA
Benzene	314		50.0	5.00	mg/m3	5		8260C	Total/NA
Toluene	372		50.0	5.00	mg/m3	5		8260C	Total/NA
Ethylbenzene	10.2		10.0	1.00	mg/m3	1		8260C	Total/NA
m,p-Xylenes	28.2		20.0	2.00	mg/m3	1		8260C	Total/NA
o-Xylene	6.19	J	10.0	1.00	mg/m3	1		8260C	Total/NA
Xylenes, Total	34.4		20.0	2.00	mg/m3	1		8260C	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics	3380		61.1	30.6	ppm v/v	5		8260C GRO	Total/NA
Benzene	98.3		15.7	1.57	ppm v/v	5		8260C	Total/NA
Toluene	98.7		13.3	1.33	ppm v/v	5		8260C	Total/NA
Ethylbenzene	2.34		2.30	0.230	ppm v/v	1		8260C	Total/NA
m,p-Xylenes	6.50		4.61	0.461	ppm v/v	1		8260C	Total/NA
o-Xylene	1.43	J	2.30	0.230	ppm v/v	1		8260C	Total/NA
Xylenes, Total	7.92		2.30	0.230	ppm v/v	1		8260C	Total/NA

Client Sample ID: Oxidizer Effl

Lab Sample ID: 860-61168-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics	2700		50.0	25.0	mg/m3	1		8260C GRO	Total/NA
Benzene	98.9		10.0	1.00	mg/m3	1		8260C	Total/NA
Toluene	340		50.0	5.00	mg/m3	5		8260C	Total/NA
Ethylbenzene	29.2		10.0	1.00	mg/m3	1		8260C	Total/NA
m,p-Xylenes	98.1		20.0	2.00	mg/m3	1		8260C	Total/NA
o-Xylene	28.0		10.0	1.00	mg/m3	1		8260C	Total/NA
Xylenes, Total	126		20.0	2.00	mg/m3	1		8260C	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics	659		12.2	6.11	ppm v/v	1		8260C GRO	Total/NA
Benzene	31.0		3.13	0.313	ppm v/v	1		8260C	Total/NA
Toluene	90.1		13.3	1.33	ppm v/v	5		8260C	Total/NA
Ethylbenzene	6.72		2.30	0.230	ppm v/v	1		8260C	Total/NA
m,p-Xylenes	22.6		4.61	0.461	ppm v/v	1		8260C	Total/NA
o-Xylene	6.45		2.30	0.230	ppm v/v	1		8260C	Total/NA
Xylenes, Total	29.0		2.30	0.230	ppm v/v	1		8260C	Total/NA

Client Sample ID: DTA Discharge

Lab Sample ID: 860-61168-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics	16600		250	125	mg/m3	5		8260C GRO	Total/NA
Benzene	374		50.0	5.00	mg/m3	5		8260C	Total/NA
Toluene	547		50.0	5.00	mg/m3	5		8260C	Total/NA
Ethylbenzene	33.0		10.0	1.00	mg/m3	1		8260C	Total/NA
m,p-Xylenes	111		20.0	2.00	mg/m3	1		8260C	Total/NA
o-Xylene	32.5		10.0	1.00	mg/m3	1		8260C	Total/NA
Xylenes, Total	144		20.0	2.00	mg/m3	1		8260C	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics	4070		61.1	30.6	ppm v/v	5		8260C GRO	Total/NA
Benzene	117		15.7	1.57	ppm v/v	5		8260C	Total/NA
Toluene	145		13.3	1.33	ppm v/v	5		8260C	Total/NA
Ethylbenzene	7.60		2.30	0.230	ppm v/v	1		8260C	Total/NA
m,p-Xylenes	25.6		4.61	0.461	ppm v/v	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Detection Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 860-61168-1
SDG: DB18.1157

Client Sample ID: DTA Discharge (Continued)

Lab Sample ID: 860-61168-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	7.48		2.30	0.230	ppm v/v	1		8260C	Total/NA
Xylenes, Total	33.0		2.30	0.230	ppm v/v	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 860-61168-1
SDG: DB18.1157

Client Sample ID: Manifold Infl

Lab Sample ID: 860-61168-1

Date Collected: 11/09/23 10:27

Matrix: Air

Date Received: 11/10/23 10:09

Sample Container: Tedlar Bag 1L

Method: SW846 8260C GRO - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	13800		250	125	mg/m3			11/10/23 15:39	5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	3380		61.1	30.6	ppm v/v			11/10/23 15:39	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		60 - 140					11/10/23 14:37	1
4-Bromofluorobenzene (Surr)	100		60 - 140					11/10/23 15:39	5

Method: SW846 8260C - Volatile Organic Compounds (GCMS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	314		50.0	5.00	mg/m3			11/10/23 15:39	5
Toluene	372		50.0	5.00	mg/m3			11/10/23 15:39	5
Ethylbenzene	10.2		10.0	1.00	mg/m3			11/10/23 14:37	1
m,p-Xylenes	28.2		20.0	2.00	mg/m3			11/10/23 14:37	1
o-Xylene	6.19	J	10.0	1.00	mg/m3			11/10/23 14:37	1
Xylenes, Total	34.4		20.0	2.00	mg/m3			11/10/23 14:37	1
MTBE	<1.00	U	10.0	1.00	mg/m3			11/10/23 14:37	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	98.3		15.7	1.57	ppm v/v			11/10/23 15:39	5
Toluene	98.7		13.3	1.33	ppm v/v			11/10/23 15:39	5
Ethylbenzene	2.34		2.30	0.230	ppm v/v			11/10/23 14:37	1
m,p-Xylenes	6.50		4.61	0.461	ppm v/v			11/10/23 14:37	1
o-Xylene	1.43	J	2.30	0.230	ppm v/v			11/10/23 14:37	1
Xylenes, Total	7.92		2.30	0.230	ppm v/v			11/10/23 14:37	1
MTBE	<0.277	U	2.77	0.277	ppm v/v			11/10/23 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 135					11/10/23 14:37	1
4-Bromofluorobenzene (Surr)	92		70 - 135					11/10/23 15:39	5

Client Sample ID: Oxidizer Effl

Lab Sample ID: 860-61168-2

Date Collected: 11/09/23 10:42

Matrix: Air

Date Received: 11/10/23 10:09

Sample Container: Tedlar Bag 1L

Method: SW846 8260C GRO - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	2700		50.0	25.0	mg/m3			11/10/23 13:56	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	659		12.2	6.11	ppm v/v			11/10/23 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		60 - 140					11/10/23 13:56	1
4-Bromofluorobenzene (Surr)	101		60 - 140					11/10/23 14:58	5

Method: SW846 8260C - Volatile Organic Compounds (GCMS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	98.9		10.0	1.00	mg/m3			11/10/23 13:56	1
Toluene	340		50.0	5.00	mg/m3			11/10/23 14:58	5

Eurofins Houston

Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 860-61168-1
SDG: DB18.1157

Client Sample ID: Oxidizer Effl

Lab Sample ID: 860-61168-2

Date Collected: 11/09/23 10:42

Matrix: Air

Date Received: 11/10/23 10:09

Sample Container: Tedlar Bag 1L

Method: SW846 8260C - Volatile Organic Compounds (GCMS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	29.2		10.0	1.00	mg/m3			11/10/23 13:56	1
m,p-Xylenes	98.1		20.0	2.00	mg/m3			11/10/23 13:56	1
o-Xylene	28.0		10.0	1.00	mg/m3			11/10/23 13:56	1
Xylenes, Total	126		20.0	2.00	mg/m3			11/10/23 13:56	1
MTBE	<1.00	U	10.0	1.00	mg/m3			11/10/23 13:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	31.0		3.13	0.313	ppm v/v			11/10/23 13:56	1
Toluene	90.1		13.3	1.33	ppm v/v			11/10/23 14:58	5
Ethylbenzene	6.72		2.30	0.230	ppm v/v			11/10/23 13:56	1
m,p-Xylenes	22.6		4.61	0.461	ppm v/v			11/10/23 13:56	1
o-Xylene	6.45		2.30	0.230	ppm v/v			11/10/23 13:56	1
Xylenes, Total	29.0		2.30	0.230	ppm v/v			11/10/23 13:56	1
MTBE	<0.277	U	2.77	0.277	ppm v/v			11/10/23 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 135		11/10/23 13:56	1
4-Bromofluorobenzene (Surr)	94		70 - 135		11/10/23 14:58	5

Client Sample ID: DTA Discharge

Lab Sample ID: 860-61168-3

Date Collected: 11/09/23 10:50

Matrix: Air

Date Received: 11/10/23 10:09

Sample Container: Tedlar Bag 1L

Method: SW846 8260C GRO - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	16600		250	125	mg/m3			11/10/23 15:18	5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	4070		61.1	30.6	ppm v/v			11/10/23 15:18	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140		11/10/23 14:17	1
4-Bromofluorobenzene (Surr)	103		60 - 140		11/10/23 15:18	5

Method: SW846 8260C - Volatile Organic Compounds (GCMS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	374		50.0	5.00	mg/m3			11/10/23 15:18	5
Toluene	547		50.0	5.00	mg/m3			11/10/23 15:18	5
Ethylbenzene	33.0		10.0	1.00	mg/m3			11/10/23 14:17	1
m,p-Xylenes	111		20.0	2.00	mg/m3			11/10/23 14:17	1
o-Xylene	32.5		10.0	1.00	mg/m3			11/10/23 14:17	1
Xylenes, Total	144		20.0	2.00	mg/m3			11/10/23 14:17	1
MTBE	<1.00	U	10.0	1.00	mg/m3			11/10/23 14:17	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	117		15.7	1.57	ppm v/v			11/10/23 15:18	5
Toluene	145		13.3	1.33	ppm v/v			11/10/23 15:18	5
Ethylbenzene	7.60		2.30	0.230	ppm v/v			11/10/23 14:17	1
m,p-Xylenes	25.6		4.61	0.461	ppm v/v			11/10/23 14:17	1
o-Xylene	7.48		2.30	0.230	ppm v/v			11/10/23 14:17	1
Xylenes, Total	33.0		2.30	0.230	ppm v/v			11/10/23 14:17	1

Eurofins Houston

Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 860-61168-1
SDG: DB18.1157

Client Sample ID: DTA Discharge

Lab Sample ID: 860-61168-3

Date Collected: 11/09/23 10:50

Matrix: Air

Date Received: 11/10/23 10:09

Sample Container: Tedlar Bag 1L

Method: SW846 8260C - Volatile Organic Compounds (GCMS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	<0.277	U	2.77	0.277	ppm v/v			11/10/23 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 135		11/10/23 14:17	1
4-Bromofluorobenzene (Surr)	93		70 - 135		11/10/23 15:18	5

Surrogate Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 860-61168-1
SDG: DB18.1157

Method: 8260C - Volatile Organic Compounds (GCMS)

Matrix: Air

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (70-135)
860-61168-1	Manifold Infl	94
860-61168-1	Manifold Infl	92
860-61168-2	Oxidizer Effl	94
860-61168-2	Oxidizer Effl	92
860-61168-3	DTA Discharge	93
860-61168-3	DTA Discharge	96
LCS 860-130467/3	Lab Control Sample	106
LCSD 860-130467/4	Lab Control Sample Dup	105
MB 860-130467/6	Method Blank	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C GRO - Volatile Organic Compounds (GC/MS)

Matrix: Air

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (60-140)
860-61168-1	Manifold Infl	101
860-61168-1	Manifold Infl	100
860-61168-2	Oxidizer Effl	101
860-61168-2	Oxidizer Effl	101
860-61168-3	DTA Discharge	98
860-61168-3	DTA Discharge	103
LCS 860-130466/4	Lab Control Sample	98
LCSD 860-130466/5	Lab Control Sample Dup	98
MB 860-130466/7	Method Blank	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 860-61168-1
SDG: DB18.1157

Method: 8260C - Volatile Organic Compounds (GCMS)

Lab Sample ID: MB 860-130467/6
Matrix: Air
Analysis Batch: 130467

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<1.00	U	10.0	1.00	mg/m3			11/10/23 12:08	1
Toluene	<1.00	U	10.0	1.00	mg/m3			11/10/23 12:08	1
Ethylbenzene	<1.00	U	10.0	1.00	mg/m3			11/10/23 12:08	1
m,p-Xylenes	<2.00	U	20.0	2.00	mg/m3			11/10/23 12:08	1
o-Xylene	<1.00	U	10.0	1.00	mg/m3			11/10/23 12:08	1
Xylenes, Total	<2.00	U	20.0	2.00	mg/m3			11/10/23 12:08	1
MTBE	<1.00	U	10.0	1.00	mg/m3			11/10/23 12:08	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.313	U	3.13	0.313	ppm v/v			11/10/23 12:08	1
Toluene	<0.265	U	2.65	0.265	ppm v/v			11/10/23 12:08	1
Ethylbenzene	<0.230	U	2.30	0.230	ppm v/v			11/10/23 12:08	1
m,p-Xylenes	<0.461	U	4.61	0.461	ppm v/v			11/10/23 12:08	1
o-Xylene	<0.230	U	2.30	0.230	ppm v/v			11/10/23 12:08	1
Xylenes, Total	<0.461	U	2.30	0.230	ppm v/v			11/10/23 12:08	1
MTBE	<0.277	U	2.77	0.277	ppm v/v			11/10/23 12:08	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	93		70 - 135		11/10/23 12:08	1

Lab Sample ID: LCS 860-130467/3
Matrix: Air
Analysis Batch: 130467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	50.0	51.96		mg/m3		104	70 - 125
Toluene	50.0	53.64		mg/m3		107	70 - 125
Ethylbenzene	50.0	54.35		mg/m3		109	70 - 125
m,p-Xylenes	50.0	53.76		mg/m3		108	70 - 125
o-Xylene	50.0	53.60		mg/m3		107	70 - 125
MTBE	50.0	52.10		mg/m3		104	70 - 125

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	15.7	16.27		ppm v/v		104	70 - 125
Toluene	13.3	14.23		ppm v/v		107	70 - 125
Ethylbenzene	11.5	12.52		ppm v/v		109	70 - 125
m,p-Xylenes	11.5	12.38		ppm v/v		108	70 - 125
o-Xylene	11.5	12.34		ppm v/v		107	70 - 125
MTBE	13.9	14.45		ppm v/v		104	70 - 125

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		70 - 135

QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 860-61168-1
SDG: DB18.1157

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-130467/4
Matrix: Air
Analysis Batch: 130467

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	50.0	48.11		mg/m3		96	70 - 125	8	35
Toluene	50.0	49.50		mg/m3		99	70 - 125	8	35
Ethylbenzene	50.0	49.26		mg/m3		99	70 - 125	10	35
m,p-Xylenes	50.0	48.83		mg/m3		98	70 - 125	10	35
o-Xylene	50.0	49.27		mg/m3		99	70 - 125	8	35
MTBE	50.0	52.70		mg/m3		105	70 - 125	1	35

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	15.7	15.06		ppm v/v		96	70 - 125	8	35
Toluene	13.3	13.13		ppm v/v		99	70 - 125	8	35
Ethylbenzene	11.5	11.34		ppm v/v		99	70 - 125	10	35
m,p-Xylenes	11.5	11.25		ppm v/v		98	70 - 125	10	35
o-Xylene	11.5	11.35		ppm v/v		99	70 - 125	8	35
MTBE	13.9	14.62		ppm v/v		105	70 - 125	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	105		70 - 135

Method: 8260C GRO - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-130466/7
Matrix: Air
Analysis Batch: 130466

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<25.0	U	50.0	25.0	mg/m3			11/10/23 12:08	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<6.11	U	12.2	6.11	ppm v/v			11/10/23 12:08	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		60 - 140		11/10/23 12:08	1

Lab Sample ID: LCS 860-130466/4
Matrix: Air
Analysis Batch: 130466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics	500	483.0		mg/m3		97	60 - 140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics	122	118.1		ppm v/v		97	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
4-Bromofluorobenzene (Surr)	98		60 - 140

QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 860-61168-1
SDG: DB18.1157

Method: 8260C GRO - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-130466/5
Matrix: Air
Analysis Batch: 130466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics	500	534.4		mg/m3	-	107	60 - 140	10	35

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics	122	130.7		ppm v/v	-	107	60 - 140	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		60 - 140

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QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 860-61168-1
SDG: DB18.1157

GC/MS VOA

Analysis Batch: 130466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61168-1	Manifold Infl	Total/NA	Air	8260C GRO	
860-61168-1	Manifold Infl	Total/NA	Air	8260C GRO	
860-61168-2	Oxidizer Effl	Total/NA	Air	8260C GRO	
860-61168-2	Oxidizer Effl	Total/NA	Air	8260C GRO	
860-61168-3	DTA Discharge	Total/NA	Air	8260C GRO	
860-61168-3	DTA Discharge	Total/NA	Air	8260C GRO	
MB 860-130466/7	Method Blank	Total/NA	Air	8260C GRO	
LCS 860-130466/4	Lab Control Sample	Total/NA	Air	8260C GRO	
LCSD 860-130466/5	Lab Control Sample Dup	Total/NA	Air	8260C GRO	

Analysis Batch: 130467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61168-1	Manifold Infl	Total/NA	Air	8260C	
860-61168-1	Manifold Infl	Total/NA	Air	8260C	
860-61168-2	Oxidizer Effl	Total/NA	Air	8260C	
860-61168-2	Oxidizer Effl	Total/NA	Air	8260C	
860-61168-3	DTA Discharge	Total/NA	Air	8260C	
860-61168-3	DTA Discharge	Total/NA	Air	8260C	
MB 860-130467/6	Method Blank	Total/NA	Air	8260C	
LCS 860-130467/3	Lab Control Sample	Total/NA	Air	8260C	
LCSD 860-130467/4	Lab Control Sample Dup	Total/NA	Air	8260C	

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 860-61168-1
SDG: DB18.1157

Client Sample ID: Manifold Infl

Lab Sample ID: 860-61168-1

Date Collected: 11/09/23 10:27

Matrix: Air

Date Received: 11/10/23 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130467	11/10/23 14:37	AN	EET HOU
Total/NA	Analysis	8260C		5	5 mL	5 mL	130467	11/10/23 15:39	AN	EET HOU
Total/NA	Analysis	8260C GRO		1	5 mL	5 mL	130466	11/10/23 14:37	AN	EET HOU
Total/NA	Analysis	8260C GRO		5	5 mL	5 mL	130466	11/10/23 15:39	AN	EET HOU

Client Sample ID: Oxidizer Effl

Lab Sample ID: 860-61168-2

Date Collected: 11/09/23 10:42

Matrix: Air

Date Received: 11/10/23 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130467	11/10/23 13:56	AN	EET HOU
Total/NA	Analysis	8260C		5	5 mL	5 mL	130467	11/10/23 14:58	AN	EET HOU
Total/NA	Analysis	8260C GRO		1	5 mL	5 mL	130466	11/10/23 13:56	AN	EET HOU
Total/NA	Analysis	8260C GRO		5	5 mL	5 mL	130466	11/10/23 14:58	AN	EET HOU

Client Sample ID: DTA Discharge

Lab Sample ID: 860-61168-3

Date Collected: 11/09/23 10:50

Matrix: Air

Date Received: 11/10/23 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130467	11/10/23 14:17	AN	EET HOU
Total/NA	Analysis	8260C		5	5 mL	5 mL	130467	11/10/23 15:18	AN	EET HOU
Total/NA	Analysis	8260C GRO		1	5 mL	5 mL	130466	11/10/23 14:17	AN	EET HOU
Total/NA	Analysis	8260C GRO		5	5 mL	5 mL	130466	11/10/23 15:18	AN	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 860-61168-1
SDG: DB18.1157

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-53	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Air	Benzene
8260C		Air	Ethylbenzene
8260C		Air	m,p-Xylenes
8260C		Air	MTBE
8260C		Air	o-Xylene
8260C		Air	Toluene
8260C		Air	Xylenes, Total
8260C GRO		Air	Gasoline Range Organics

Method Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 860-61168-1
SDG: DB18.1157

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GCMS)	SW846	EET HOU
8260C GRO	Volatile Organic Compounds (GC/MS)	SW846	EET HOU
5030C	Collection/Prep Tedlar Bag (P&T)	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



Sample Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 860-61168-1
SDG: DB18.1157

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
860-61168-1	Manifold Infl	Air	11/09/23 10:27	11/10/23 10:09
860-61168-2	Oxidizer Effl	Air	11/09/23 10:42	11/10/23 10:09
860-61168-3	DTA Discharge	Air	11/09/23 10:50	11/10/23 10:09

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Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

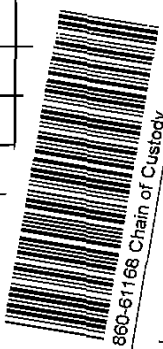
www.xenco.com Page 1 of 1

Project Manager: Grace Herrmann Bill to: (if different)
Company Name: Dan & B Stephens & Assoc Company Name:
Address: 6020 Academy Rd Apt 5016 Address:
City, State ZIP: Albuquerque, NM 87109 City, State ZIP:
Phone: 1-(505) 379-0909 Email:

Program: UST/PST PRP Brownfields RRC Superfund
State of Project: Level II Level III PST/UST TRRP Level IV
Deliverables: EDD ADaPT Other:

SAMPLE RECEIPT		Temp Blank:		Temp:		Wet Ice:		IR ID:		Corrected Temp:	
Yes	No	Yes	No	C/F	F	Yes	No	Temp	IR ID	C/F	F
				20.0	68.0			20.0	HOU-369		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code	ANALYSIS REQUEST	Preservative Codes	Sample Comments
Man. field In fl.		11/19/23	1027	-	604	1			None NO	DI Water H ₂ O
OX1# 2nd Estl.		11/19/23	1042	-	604	1			Cool: Cool	MeOH: Me
OTA P.S. charge		11/19/23	1050	-	604	1			HCL: HC	HNO ₃ : HN
									H ₂ SO ₄ : H ₂	NaOH: Na
									H ₃ PO ₄ : HP	
									NaHSO ₄ : NABIS	
									Na ₂ S ₂ O ₃ : NaSO ₃	
									Zn Acetate+NaOH: Zn	
									NaOH+Ascorbic Acid: SACP	



Total 200.7/6010 200.8/6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>[Signature]</u>	<u>FedEx</u>	11/19/23 1030	<u>[Signature]</u>	<u>[Signature]</u>	11/10/23 10:09

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 860-61168-1

SDG Number: DB18.1157

Login Number: 61168

List Number: 1

Creator: Torrez, Lisandra

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
4400 Alameda Blvd. NE
Suite C
Albuquerque, New Mexico 87113

Generated 11/30/2023 8:49:26 AM Revision 1

JOB DESCRIPTION

Former Y Station

JOB NUMBER

860-61182-1

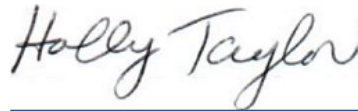
Eurofins Houston

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
11/30/2023 8:49:26 AM
Revision 1

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	22
Lab Chronicle	24
Certification Summary	25
Method Summary	26
Sample Summary	27
Chain of Custody	28
Receipt Checklists	29

Definitions/Glossary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

Job ID: 860-61182-1

Laboratory: Eurofins Houston

Narrative

Job Narrative 860-61182-1

Revision

The report being provided is a revision of the original report sent on 11/27/2023. The report (revision 1) is being revised to include results for 1-Methylnaphthalene and 2-Methylnaphthalene per Grace Herrmann (email).

Receipt

The samples were received on 11/10/2023 10:09 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries and precision for analytical batch 860-130976 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: Raw Water Infl (860-61182-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-130567 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

Client Sample ID: Raw Water Infl

Lab Sample ID: 860-61182-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.0452		0.0100	0.00417	mg/L	10		8260C	Total/NA
1,2-Dichloroethane	0.115		0.0100	0.00372	mg/L	10		8260C	Total/NA
1,3,5-Trimethylbenzene	0.0268		0.0100	0.00411	mg/L	10		8260C	Total/NA
Benzene	1.30		0.0100	0.00460	mg/L	10		8260C	Total/NA
Ethylbenzene	0.0478		0.0100	0.00385	mg/L	10		8260C	Total/NA
m,p-Xylenes	0.375		0.100	0.0124	mg/L	10		8260C	Total/NA
o-Xylene	0.148		0.0100	0.00502	mg/L	10		8260C	Total/NA
Toluene	1.02		0.0100	0.00475	mg/L	10		8260C	Total/NA
Xylenes, Total	0.523		0.100	0.0124	mg/L	10		8260C	Total/NA
Total TPH	8.45		4.82	0.953	mg/L	1		8015 NM	Total/NA
Gasoline Range Organics (GRO)-C6-C10	6.09		4.82	0.953	mg/L	1		8015B NM	Total/NA
Diesel Range Organics (Over C10-C28)	2.36	J	4.82	0.953	mg/L	1		8015B NM	Total/NA
Chloride	81.8		0.500	0.250	mg/L	1		300.0	Total/NA
Nitrate as N	2.25		0.100	0.0391	mg/L	1		300.0	Total/NA
Sulfate	47.3		0.500	0.200	mg/L	1		300.0	Total/NA

Client Sample ID: Treated Water Effl

Lab Sample ID: 860-61182-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.00175		0.00100	0.000417	mg/L	1		8260C	Total/NA
1,2-Dichloroethane	0.0155		0.00100	0.000372	mg/L	1		8260C	Total/NA
1,3,5-Trimethylbenzene	0.000871	J	0.00100	0.000411	mg/L	1		8260C	Total/NA
2-Butanone	0.0316	J	0.0500	0.00828	mg/L	1		8260C	Total/NA
Benzene	0.0309		0.00100	0.000460	mg/L	1		8260C	Total/NA
Ethylbenzene	0.00108		0.00100	0.000385	mg/L	1		8260C	Total/NA
Ethylene Dibromide (EDB)	0.00450	J	0.00500	0.000999	mg/L	1		8260C	Total/NA
m,p-Xylenes	0.00850	J	0.0100	0.00124	mg/L	1		8260C	Total/NA
Naphthalene	0.00769	J	0.0100	0.00135	mg/L	1		8260C	Total/NA
o-Xylene	0.00575		0.00100	0.000502	mg/L	1		8260C	Total/NA
Toluene	0.0236		0.00100	0.000475	mg/L	1		8260C	Total/NA
Xylenes, Total	0.0143		0.0100	0.00124	mg/L	1		8260C	Total/NA
Total TPH	2.17	J	5.47	1.08	mg/L	1		8015 NM	Total/NA
Diesel Range Organics (Over C10-C28)	2.17	J	5.47	1.08	mg/L	1		8015B NM	Total/NA
Chloride	81.9		0.500	0.250	mg/L	1		300.0	Total/NA
Nitrate as N	2.31		0.100	0.0391	mg/L	1		300.0	Total/NA
Sulfate	47.4		0.500	0.200	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

Client Sample ID: Raw Water Infl

Lab Sample ID: 860-61182-1

Date Collected: 11/09/23 10:55

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.00644	U	0.0100	0.00644	mg/L			11/15/23 06:07	10
1,1,1-Trichloroethane	<0.00585	U	0.0500	0.00585	mg/L			11/15/23 06:07	10
1,1,2,2-Tetrachloroethane	<0.00470	U	0.0100	0.00470	mg/L			11/15/23 06:07	10
1,1,2-Trichloroethane	<0.00411	U	0.0100	0.00411	mg/L			11/15/23 06:07	10
1,1-Dichloroethane	<0.00635	U	0.0100	0.00635	mg/L			11/15/23 06:07	10
1,1-Dichloroethene	<0.00738	U	0.0100	0.00738	mg/L			11/15/23 06:07	10
1,1-Dichloropropene	<0.00624	U	0.0500	0.00624	mg/L			11/15/23 06:07	10
1,2,3-Trichlorobenzene	<0.0177	U	0.0500	0.0177	mg/L			11/15/23 06:07	10
1,2,3-Trichloropropane	<0.00470	U	0.0100	0.00470	mg/L			11/15/23 06:07	10
1,2,4-Trichlorobenzene	<0.0175	U	0.0500	0.0175	mg/L			11/15/23 06:07	10
1,2,4-Trimethylbenzene	0.0452		0.0100	0.00417	mg/L			11/15/23 06:07	10
1,2-Dibromo-3-Chloropropane	<0.00671	U	0.0500	0.00671	mg/L			11/15/23 06:07	10
1,2-Dichlorobenzene	<0.00429	U	0.0100	0.00429	mg/L			11/15/23 06:07	10
1,2-Dichloroethane	0.115		0.0100	0.00372	mg/L			11/15/23 06:07	10
1,2-Dichloropropane	<0.00556	U	0.0500	0.00556	mg/L			11/15/23 06:07	10
1,3,5-Trimethylbenzene	0.0268		0.0100	0.00411	mg/L			11/15/23 06:07	10
1,3-Dichlorobenzene	<0.00413	U	0.0100	0.00413	mg/L			11/15/23 06:07	10
1,3-Dichloropropane	<0.00514	U	0.0500	0.00514	mg/L			11/15/23 06:07	10
1,4-Dichlorobenzene	<0.00449	U	0.0100	0.00449	mg/L			11/15/23 06:07	10
2,2-Dichloropropane	<0.00679	U	0.0500	0.00679	mg/L			11/15/23 06:07	10
2-Butanone	<0.0828	U	0.500	0.0828	mg/L			11/15/23 06:07	10
4-Chlorotoluene	<0.00386	U	0.0100	0.00386	mg/L			11/15/23 06:07	10
Benzene	1.30		0.0100	0.00460	mg/L			11/15/23 06:07	10
Bromobenzene	<0.00486	U	0.0100	0.00486	mg/L			11/15/23 06:07	10
Bromochloromethane	<0.00577	U	0.0100	0.00577	mg/L			11/15/23 06:07	10
Bromodichloromethane	<0.00552	U	0.0100	0.00552	mg/L			11/15/23 06:07	10
Bromoform	<0.00633	U	0.0500	0.00633	mg/L			11/15/23 06:07	10
Bromomethane	<0.0142	U	0.0500	0.0142	mg/L			11/15/23 06:07	10
Carbon tetrachloride	<0.00896	U	0.0500	0.00896	mg/L			11/15/23 06:07	10
Chlorobenzene	<0.00455	U	0.0100	0.00455	mg/L			11/15/23 06:07	10
Chloroethane	<0.0198	U	0.100	0.0198	mg/L			11/15/23 06:07	10
Chloroform	<0.00464	U	0.0100	0.00464	mg/L			11/15/23 06:07	10
Chloromethane	<0.0204	U	0.100	0.0204	mg/L			11/15/23 06:07	10
cis-1,2-Dichloroethene	<0.00457	U	0.0100	0.00457	mg/L			11/15/23 06:07	10
cis-1,3-Dichloropropene	<0.0107	U	0.0500	0.0107	mg/L			11/15/23 06:07	10
Dibromochloromethane	<0.00547	U	0.0500	0.00547	mg/L			11/15/23 06:07	10
Dichlorodifluoromethane	<0.00785	U	0.0100	0.00785	mg/L			11/15/23 06:07	10
Ethylbenzene	0.0478		0.0100	0.00385	mg/L			11/15/23 06:07	10
Ethylene Dibromide (EDB)	<0.00999	U	0.0500	0.00999	mg/L			11/15/23 06:07	10
Hexachlorobutadiene	<0.00627	U	0.0500	0.00627	mg/L			11/15/23 06:07	10
Isopropylbenzene	<0.00592	U	0.0100	0.00592	mg/L			11/15/23 06:07	10
m,p-Xylenes	0.375		0.100	0.0124	mg/L			11/15/23 06:07	10
Methylene Chloride	<0.0173	U	0.0500	0.0173	mg/L			11/15/23 06:07	10
MTBE	<0.0139	U	0.0500	0.0139	mg/L			11/15/23 06:07	10
Naphthalene	<0.0135	U	0.100	0.0135	mg/L			11/15/23 06:07	10
n-Butylbenzene	<0.00510	U	0.0100	0.00510	mg/L			11/15/23 06:07	10
N-Propylbenzene	<0.00429	U	0.0100	0.00429	mg/L			11/15/23 06:07	10
o-Xylene	0.148		0.0100	0.00502	mg/L			11/15/23 06:07	10
p-Cymene (p-Isopropyltoluene)	<0.00676	U	0.0100	0.00676	mg/L			11/15/23 06:07	10

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

Client Sample ID: Raw Water Infl

Lab Sample ID: 860-61182-1

Date Collected: 11/09/23 10:55

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.00468	U	0.0100	0.00468	mg/L			11/15/23 06:07	10
Styrene	<0.00619	U	0.0100	0.00619	mg/L			11/15/23 06:07	10
tert-Butylbenzene	<0.00442	U	0.0100	0.00442	mg/L			11/15/23 06:07	10
Tetrachloroethene	<0.00655	U	0.0100	0.00655	mg/L			11/15/23 06:07	10
Toluene	1.02		0.0100	0.00475	mg/L			11/15/23 06:07	10
trans-1,2-Dichloroethene	<0.00368	U	0.0100	0.00368	mg/L			11/15/23 06:07	10
trans-1,3-Dichloropropene	<0.0127	U	0.0500	0.0127	mg/L			11/15/23 06:07	10
Trichloroethene	<0.0150	U	0.0500	0.0150	mg/L			11/15/23 06:07	10
Trichlorofluoromethane	<0.00560	U	0.0100	0.00560	mg/L			11/15/23 06:07	10
Vinyl chloride	<0.00428	U	0.0200	0.00428	mg/L			11/15/23 06:07	10
Xylenes, Total	0.523		0.100	0.0124	mg/L			11/15/23 06:07	10
2-Methylnaphthalene	<0.0330	U	0.100	0.0330	mg/L			11/15/23 06:07	10
1-Methylnaphthalene	<0.0346	U	0.100	0.0346	mg/L			11/15/23 06:07	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		63 - 144					11/15/23 06:07	10
4-Bromofluorobenzene (Surr)	106		74 - 124					11/15/23 06:07	10
Dibromofluoromethane (Surr)	111		75 - 131					11/15/23 06:07	10
Toluene-d8 (Surr)	101		80 - 120					11/15/23 06:07	10

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	8.45		4.82	0.953	mg/L			11/16/23 00:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	6.09		4.82	0.953	mg/L		11/14/23 16:26	11/16/23 00:44	1
Diesel Range Organics (Over C10-C28)	2.36	J	4.82	0.953	mg/L		11/14/23 16:26	11/16/23 00:44	1
Oil Range Organics (Over C28-C36)	<0.920	U	4.82	0.920	mg/L		11/14/23 16:26	11/16/23 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 135				11/14/23 16:26	11/16/23 00:44	1
o-Terphenyl (Surr)	104		70 - 135				11/14/23 16:26	11/16/23 00:44	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.8		0.500	0.250	mg/L			11/11/23 09:29	1
Nitrate as N	2.25		0.100	0.0391	mg/L			11/11/23 09:29	1
Sulfate	47.3		0.500	0.200	mg/L			11/11/23 09:29	1

Client Sample ID: Treated Water Effl

Lab Sample ID: 860-61182-2

Date Collected: 11/09/23 11:20

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L			11/15/23 00:44	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L			11/15/23 00:44	1
1,1,1,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L			11/15/23 00:44	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L			11/15/23 00:44	1

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

Client Sample ID: Treated Water Effl

Lab Sample ID: 860-61182-2

Date Collected: 11/09/23 11:20

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L			11/15/23 00:44	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L			11/15/23 00:44	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L			11/15/23 00:44	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L			11/15/23 00:44	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L			11/15/23 00:44	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			11/15/23 00:44	1
1,2,4-Trimethylbenzene	0.00175		0.00100	0.000417	mg/L			11/15/23 00:44	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L			11/15/23 00:44	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L			11/15/23 00:44	1
1,2-Dichloroethane	0.0155		0.00100	0.000372	mg/L			11/15/23 00:44	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L			11/15/23 00:44	1
1,3,5-Trimethylbenzene	0.000871	J	0.00100	0.000411	mg/L			11/15/23 00:44	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L			11/15/23 00:44	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L			11/15/23 00:44	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L			11/15/23 00:44	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L			11/15/23 00:44	1
2-Butanone	0.0316	J	0.0500	0.00828	mg/L			11/15/23 00:44	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L			11/15/23 00:44	1
Benzene	0.0309		0.00100	0.000460	mg/L			11/15/23 00:44	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L			11/15/23 00:44	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L			11/15/23 00:44	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L			11/15/23 00:44	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L			11/15/23 00:44	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L			11/15/23 00:44	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L			11/15/23 00:44	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L			11/15/23 00:44	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L			11/15/23 00:44	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L			11/15/23 00:44	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L			11/15/23 00:44	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L			11/15/23 00:44	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L			11/15/23 00:44	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L			11/15/23 00:44	1
Dichlorodifluoromethane	<0.000785	U F1	0.00100	0.000785	mg/L			11/15/23 00:44	1
Ethylbenzene	0.00108		0.00100	0.000385	mg/L			11/15/23 00:44	1
Ethylene Dibromide (EDB)	0.00450	J	0.00500	0.000999	mg/L			11/15/23 00:44	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L			11/15/23 00:44	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592	mg/L			11/15/23 00:44	1
m,p-Xylenes	0.00850	J	0.0100	0.00124	mg/L			11/15/23 00:44	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L			11/15/23 00:44	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L			11/15/23 00:44	1
Naphthalene	0.00769	J	0.0100	0.00135	mg/L			11/15/23 00:44	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L			11/15/23 00:44	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429	mg/L			11/15/23 00:44	1
o-Xylene	0.00575		0.00100	0.000502	mg/L			11/15/23 00:44	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L			11/15/23 00:44	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L			11/15/23 00:44	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L			11/15/23 00:44	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L			11/15/23 00:44	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L			11/15/23 00:44	1

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Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

Client Sample ID: Treated Water Effl

Lab Sample ID: 860-61182-2

Date Collected: 11/09/23 11:20

Matrix: Water

Date Received: 11/10/23 10:09

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.0236		0.00100	0.000475	mg/L			11/15/23 00:44	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L			11/15/23 00:44	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L			11/15/23 00:44	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L			11/15/23 00:44	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L			11/15/23 00:44	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L			11/15/23 00:44	1
Xylenes, Total	0.0143		0.0100	0.00124	mg/L			11/15/23 00:44	1
2-Methylnaphthalene	<0.00330	U F1	0.0100	0.00330	mg/L			11/15/23 00:44	1
1-Methylnaphthalene	<0.00346	U	0.0100	0.00346	mg/L			11/15/23 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		63 - 144					11/15/23 00:44	1
4-Bromofluorobenzene (Surr)	110		74 - 124					11/15/23 00:44	1
Dibromofluoromethane (Surr)	110		75 - 131					11/15/23 00:44	1
Toluene-d8 (Surr)	102		80 - 120					11/15/23 00:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2.17	J	5.47	1.08	mg/L			11/16/23 01:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<1.08	U	5.47	1.08	mg/L		11/14/23 16:26	11/16/23 01:04	1
Diesel Range Organics (Over C10-C28)	2.17	J	5.47	1.08	mg/L		11/14/23 16:26	11/16/23 01:04	1
Oil Range Organics (Over C28-C36)	<1.04	U	5.47	1.04	mg/L		11/14/23 16:26	11/16/23 01:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 135				11/14/23 16:26	11/16/23 01:04	1
o-Terphenyl (Surr)	97		70 - 135				11/14/23 16:26	11/16/23 01:04	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.9		0.500	0.250	mg/L			11/11/23 10:25	1
Nitrate as N	2.31		0.100	0.0391	mg/L			11/11/23 10:25	1
Sulfate	47.4		0.500	0.200	mg/L			11/11/23 10:25	1

Surrogate Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
860-61182-1	Raw Water Infl	117	106	111	101
860-61182-2	Treated Water Effl	109	110	110	102
860-61182-2 MS	Treated Water Effl	105	105	105	101
LCS 860-130976/3	Lab Control Sample	104	106	105	100
LCSD 860-130976/4	Lab Control Sample Dup	105	111	104	104
MB 860-130976/9	Method Blank	105	115	106	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-135)	OTPH1 (70-135)
860-61182-1	Raw Water Infl	90	104
860-61182-2	Treated Water Effl	85	97
LCS 860-131033/2-A	Lab Control Sample	98	87
LCSD 860-131033/3-A	Lab Control Sample Dup	94	85
MB 860-131033/1-A	Method Blank	92	86
MB 860-131033/1-A	Method Blank	75	85

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: Former Y Station

Job ID: 860-61182-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-130976/9
Matrix: Water
Analysis Batch: 130976

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L			11/15/23 00:25	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L			11/15/23 00:25	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L			11/15/23 00:25	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L			11/15/23 00:25	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L			11/15/23 00:25	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L			11/15/23 00:25	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L			11/15/23 00:25	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L			11/15/23 00:25	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L			11/15/23 00:25	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			11/15/23 00:25	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L			11/15/23 00:25	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L			11/15/23 00:25	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L			11/15/23 00:25	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L			11/15/23 00:25	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L			11/15/23 00:25	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			11/15/23 00:25	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L			11/15/23 00:25	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L			11/15/23 00:25	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L			11/15/23 00:25	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L			11/15/23 00:25	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L			11/15/23 00:25	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L			11/15/23 00:25	1
Benzene	<0.000460	U	0.00100	0.000460	mg/L			11/15/23 00:25	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L			11/15/23 00:25	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L			11/15/23 00:25	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L			11/15/23 00:25	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L			11/15/23 00:25	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L			11/15/23 00:25	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L			11/15/23 00:25	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L			11/15/23 00:25	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L			11/15/23 00:25	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L			11/15/23 00:25	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L			11/15/23 00:25	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L			11/15/23 00:25	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L			11/15/23 00:25	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L			11/15/23 00:25	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L			11/15/23 00:25	1
Ethylbenzene	<0.000385	U	0.00100	0.000385	mg/L			11/15/23 00:25	1
Ethylene Dibromide (EDB)	<0.000999	U	0.00500	0.000999	mg/L			11/15/23 00:25	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L			11/15/23 00:25	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592	mg/L			11/15/23 00:25	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			11/15/23 00:25	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L			11/15/23 00:25	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L			11/15/23 00:25	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L			11/15/23 00:25	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L			11/15/23 00:25	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429	mg/L			11/15/23 00:25	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			11/15/23 00:25	1

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: Former Y Station

Job ID: 860-61182-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-130976/9
Matrix: Water
Analysis Batch: 130976

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L			11/15/23 00:25	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L			11/15/23 00:25	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L			11/15/23 00:25	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L			11/15/23 00:25	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L			11/15/23 00:25	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			11/15/23 00:25	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L			11/15/23 00:25	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L			11/15/23 00:25	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L			11/15/23 00:25	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L			11/15/23 00:25	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L			11/15/23 00:25	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			11/15/23 00:25	1
2-Methylnaphthalene	<0.00330	U	0.0100	0.00330	mg/L			11/15/23 00:25	1
1-Methylnaphthalene	<0.00346	U	0.0100	0.00346	mg/L			11/15/23 00:25	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		11/15/23 00:25	1
4-Bromofluorobenzene (Surr)	115		74 - 124		11/15/23 00:25	1
Dibromofluoromethane (Surr)	106		75 - 131		11/15/23 00:25	1
Toluene-d8 (Surr)	104		80 - 120		11/15/23 00:25	1

Lab Sample ID: LCS 860-130976/3
Matrix: Water
Analysis Batch: 130976

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.05366		mg/L		107	70 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.05241		mg/L		105	74 - 125
1,1,2-Trichloroethane	0.0500	0.05221		mg/L		104	70 - 130
1,1-Dichloroethane	0.0500	0.05463		mg/L		109	70 - 130
1,1-Dichloroethene	0.0500	0.04827		mg/L		97	50 - 150
1,1-Dichloropropene	0.0500	0.04883		mg/L		98	75 - 125
1,2,3-Trichlorobenzene	0.0500	0.04958		mg/L		99	75 - 137
1,2,3-Trichloropropane	0.0500	0.05557		mg/L		111	75 - 125
1,2,4-Trichlorobenzene	0.0500	0.04745		mg/L		95	75 - 135
1,2,4-Trimethylbenzene	0.0500	0.05191		mg/L		104	75 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.04418		mg/L		88	59 - 125
1,2-Dichlorobenzene	0.0500	0.04894		mg/L		98	75 - 125
1,2-Dichloroethane	0.0500	0.05519		mg/L		110	72 - 130
1,2-Dichloropropane	0.0500	0.05331		mg/L		107	74 - 125
1,3,5-Trimethylbenzene	0.0500	0.05265		mg/L		105	60 - 140
1,3-Dichlorobenzene	0.0500	0.04928		mg/L		99	75 - 125
1,3-Dichloropropane	0.0500	0.05318		mg/L		106	75 - 125
1,4-Dichlorobenzene	0.0500	0.04768		mg/L		95	75 - 125
2,2-Dichloropropane	0.0500	0.05045		mg/L		101	75 - 125
2-Butanone	0.250	0.2789		mg/L		112	60 - 140
4-Chlorotoluene	0.0500	0.05233		mg/L		105	74 - 125

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-130976/3
Matrix: Water
Analysis Batch: 130976

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05380		mg/L		108	75 - 125
Bromobenzene	0.0500	0.04918		mg/L		98	75 - 125
Bromochloromethane	0.0500	0.05562		mg/L		111	60 - 140
Bromodichloromethane	0.0500	0.05383		mg/L		108	75 - 125
Bromoform	0.0500	0.04649		mg/L		93	70 - 130
Bromomethane	0.0500	0.03923		mg/L		78	60 - 140
Carbon tetrachloride	0.0500	0.05024		mg/L		100	70 - 130
Chlorobenzene	0.0500	0.04916		mg/L		98	65 - 135
Chloroethane	0.0500	0.05136		mg/L		103	60 - 140
Chloroform	0.0500	0.05482		mg/L		110	70 - 121
Chloromethane	0.0500	0.04780		mg/L		96	60 - 140
cis-1,2-Dichloroethene	0.0500	0.05387		mg/L		108	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05493		mg/L		110	74 - 125
Dibromochloromethane	0.0500	0.05082		mg/L		102	73 - 125
Dichlorodifluoromethane	0.0500	0.03425		mg/L		69	50 - 150
Ethylbenzene	0.0500	0.05064		mg/L		101	75 - 125
Ethylene Dibromide (EDB)	0.0500	0.05224		mg/L		104	73 - 125
Hexachlorobutadiene	0.0500	0.05171		mg/L		103	75 - 125
Isopropylbenzene	0.0500	0.04997		mg/L		100	75 - 125
m,p-Xylenes	0.0500	0.05090		mg/L		102	75 - 125
Methylene Chloride	0.0500	0.05092		mg/L		102	71 - 125
MTBE	0.0500	0.05805		mg/L		116	65 - 135
Naphthalene	0.0500	0.05216		mg/L		104	70 - 130
n-Butylbenzene	0.0500	0.05559		mg/L		111	75 - 125
N-Propylbenzene	0.0500	0.05228		mg/L		105	75 - 125
o-Xylene	0.0500	0.05088		mg/L		102	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05351		mg/L		107	75 - 125
sec-Butylbenzene	0.0500	0.05370		mg/L		107	75 - 125
Styrene	0.0500	0.05056		mg/L		101	75 - 125
tert-Butylbenzene	0.0500	0.05115		mg/L		102	75 - 125
Tetrachloroethene	0.0500	0.04807		mg/L		96	71 - 125
Toluene	0.0500	0.04993		mg/L		100	70 - 130
trans-1,2-Dichloroethene	0.0500	0.05331		mg/L		107	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05327		mg/L		107	66 - 125
Trichloroethene	0.0500	0.05108		mg/L		102	75 - 135
Trichlorofluoromethane	0.0500	0.05164		mg/L		103	60 - 140
Vinyl chloride	0.0500	0.05196		mg/L		104	60 - 140
2-Methylnaphthalene	0.0500	0.05752		mg/L		115	75 - 125
1-Methylnaphthalene	0.0500	0.06404		mg/L		128	75 - 199

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		63 - 144
4-Bromofluorobenzene (Surr)	106		74 - 124
Dibromofluoromethane (Surr)	105		75 - 131
Toluene-d8 (Surr)	100		80 - 120

QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: Former Y Station

Job ID: 860-61182-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130976/4
Matrix: Water
Analysis Batch: 130976

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.0500	0.05162		mg/L		103	72 - 125	2	25
1,1,1-Trichloroethane	0.0500	0.05425		mg/L		108	70 - 130	1	25
1,1,2,2-Tetrachloroethane	0.0500	0.05601		mg/L		112	74 - 125	7	25
1,1,2-Trichloroethane	0.0500	0.05379		mg/L		108	70 - 130	3	25
1,1-Dichloroethane	0.0500	0.05709		mg/L		114	70 - 130	4	25
1,1-Dichloroethene	0.0500	0.05087		mg/L		102	50 - 150	5	25
1,1-Dichloropropene	0.0500	0.05011		mg/L		100	75 - 125	3	25
1,2,3-Trichlorobenzene	0.0500	0.05139		mg/L		103	75 - 137	4	25
1,2,3-Trichloropropane	0.0500	0.05943		mg/L		119	75 - 125	7	25
1,2,4-Trichlorobenzene	0.0500	0.05018		mg/L		100	75 - 135	6	25
1,2,4-Trimethylbenzene	0.0500	0.05696		mg/L		114	75 - 125	9	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05001		mg/L		100	59 - 125	12	25
1,2-Dichlorobenzene	0.0500	0.05289		mg/L		106	75 - 125	8	25
1,2-Dichloroethane	0.0500	0.05530		mg/L		111	72 - 130	0	25
1,2-Dichloropropane	0.0500	0.05530		mg/L		111	74 - 125	4	25
1,3,5-Trimethylbenzene	0.0500	0.05725		mg/L		114	60 - 140	8	25
1,3-Dichlorobenzene	0.0500	0.05238		mg/L		105	75 - 125	6	25
1,3-Dichloropropane	0.0500	0.05354		mg/L		107	75 - 125	1	25
1,4-Dichlorobenzene	0.0500	0.05189		mg/L		104	75 - 125	8	25
2,2-Dichloropropane	0.0500	0.05228		mg/L		105	75 - 125	4	25
2-Butanone	0.250	0.2787		mg/L		111	60 - 140	0	25
4-Chlorotoluene	0.0500	0.05570		mg/L		111	74 - 125	6	25
Benzene	0.0500	0.05428		mg/L		109	75 - 125	1	25
Bromobenzene	0.0500	0.05288		mg/L		106	75 - 125	7	25
Bromochloromethane	0.0500	0.05514		mg/L		110	60 - 140	1	25
Bromodichloromethane	0.0500	0.05468		mg/L		109	75 - 125	2	25
Bromoform	0.0500	0.04754		mg/L		95	70 - 130	2	25
Bromomethane	0.0500	0.03680		mg/L		74	60 - 140	6	25
Carbon tetrachloride	0.0500	0.05033		mg/L		101	70 - 130	0	25
Chlorobenzene	0.0500	0.05034		mg/L		101	65 - 135	2	25
Chloroethane	0.0500	0.04739		mg/L		95	60 - 140	8	25
Chloroform	0.0500	0.05500		mg/L		110	70 - 121	0	25
Chloromethane	0.0500	0.04588		mg/L		92	60 - 140	4	25
cis-1,2-Dichloroethene	0.0500	0.05459		mg/L		109	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.05489		mg/L		110	74 - 125	0	25
Dibromochloromethane	0.0500	0.05122		mg/L		102	73 - 125	1	25
Dichlorodifluoromethane	0.0500	0.03294		mg/L		66	50 - 150	4	25
Ethylbenzene	0.0500	0.05206		mg/L		104	75 - 125	3	25
Ethylene Dibromide (EDB)	0.0500	0.05342		mg/L		107	73 - 125	2	25
Hexachlorobutadiene	0.0500	0.05161		mg/L		103	75 - 125	0	25
Isopropylbenzene	0.0500	0.05206		mg/L		104	75 - 125	4	25
m,p-Xylenes	0.0500	0.05091		mg/L		102	75 - 125	0	25
Methylene Chloride	0.0500	0.05207		mg/L		104	71 - 125	2	25
MTBE	0.0500	0.05830		mg/L		117	65 - 135	0	25
Naphthalene	0.0500	0.05593		mg/L		112	70 - 130	7	25
n-Butylbenzene	0.0500	0.05755		mg/L		115	75 - 125	3	25
N-Propylbenzene	0.0500	0.05610		mg/L		112	75 - 125	7	25
o-Xylene	0.0500	0.05209		mg/L		104	75 - 125	2	25

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-130976/4
Matrix: Water
Analysis Batch: 130976

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
p-Cymene (p-Isopropyltoluene)	0.0500	0.05678		mg/L		114	75 - 125	6	25
sec-Butylbenzene	0.0500	0.05728		mg/L		115	75 - 125	6	25
Styrene	0.0500	0.05275		mg/L		105	75 - 125	4	25
tert-Butylbenzene	0.0500	0.05532		mg/L		111	75 - 125	8	25
Tetrachloroethene	0.0500	0.04905		mg/L		98	71 - 125	2	25
Toluene	0.0500	0.05249		mg/L		105	70 - 130	5	25
trans-1,2-Dichloroethene	0.0500	0.05009		mg/L		100	75 - 125	6	25
trans-1,3-Dichloropropene	0.0500	0.05480		mg/L		110	66 - 125	3	25
Trichloroethene	0.0500	0.05358		mg/L		107	75 - 135	5	25
Trichlorofluoromethane	0.0500	0.05078		mg/L		102	60 - 140	2	25
Vinyl chloride	0.0500	0.04684		mg/L		94	60 - 140	10	25
2-Methylnaphthalene	0.0500	0.06069		mg/L		121	75 - 125	5	25
1-Methylnaphthalene	0.0500	0.06533		mg/L		131	75 - 199	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	105		63 - 144
4-Bromofluorobenzene (Surr)	111		74 - 124
Dibromofluoromethane (Surr)	104		75 - 131
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: 860-61182-2 MS
Matrix: Water
Analysis Batch: 130976

Client Sample ID: Treated Water Effl
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.000644	U	0.0500	0.05269		mg/L		105	72 - 125
1,1,1-Trichloroethane	<0.000585	U	0.0500	0.05725		mg/L		115	75 - 125
1,1,2,2-Tetrachloroethane	<0.000470	U	0.0500	0.05862		mg/L		117	74 - 125
1,1,2-Trichloroethane	<0.000411	U	0.0500	0.05305		mg/L		106	75 - 127
1,1-Dichloroethane	<0.000635	U	0.0500	0.05754		mg/L		115	72 - 125
1,1-Dichloroethene	<0.000738	U	0.0500	0.05237		mg/L		105	59 - 172
1,1-Dichloropropene	<0.000624	U	0.0500	0.05239		mg/L		105	75 - 125
1,2,3-Trichlorobenzene	<0.00177	U	0.0500	0.05528		mg/L		111	75 - 137
1,2,3-Trichloropropane	<0.000470	U	0.0500	0.05508		mg/L		110	75 - 125
1,2,4-Trichlorobenzene	<0.00175	U	0.0500	0.05201		mg/L		104	75 - 135
1,2,4-Trimethylbenzene	0.00175		0.0500	0.05817		mg/L		113	75 - 125
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.0500	0.04789		mg/L		96	59 - 125
1,2-Dichlorobenzene	<0.000429	U	0.0500	0.05144		mg/L		103	75 - 125
1,2-Dichloroethane	0.0155		0.0500	0.07259		mg/L		114	68 - 127
1,2-Dichloropropane	<0.000556	U	0.0500	0.05559		mg/L		111	74 - 125
1,3,5-Trimethylbenzene	0.000871	J	0.0500	0.05645		mg/L		111	70 - 125
1,3-Dichlorobenzene	<0.000413	U	0.0500	0.05217		mg/L		104	75 - 125
1,3-Dichloropropane	<0.000514	U	0.0500	0.05360		mg/L		107	75 - 125
1,4-Dichlorobenzene	<0.000449	U	0.0500	0.05093		mg/L		102	75 - 125
2,2-Dichloropropane	<0.000679	U	0.0500	0.05100		mg/L		102	75 - 125
2-Butanone	0.0316	J	0.250	0.3192		mg/L		115	60 - 140
4-Chlorotoluene	<0.000386	U	0.0500	0.05567		mg/L		111	74 - 125
Benzene	0.0309		0.0500	0.08764		mg/L		113	66 - 142

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-61182-2 MS

Matrix: Water

Analysis Batch: 130976

Client Sample ID: Treated Water Effl

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Bromobenzene	<0.000486	U	0.0500	0.05178		mg/L		104	75 - 125
Bromochloromethane	<0.000577	U	0.0500	0.05564		mg/L		111	60 - 140
Bromodichloromethane	<0.000552	U	0.0500	0.05508		mg/L		110	75 - 125
Bromoform	<0.000633	U	0.0500	0.04787		mg/L		96	75 - 125
Bromomethane	<0.00142	U	0.0500	0.03637		mg/L		73	60 - 140
Carbon tetrachloride	<0.000896	U	0.0500	0.05204		mg/L		104	62 - 125
Chlorobenzene	<0.000455	U	0.0500	0.05217		mg/L		104	60 - 133
Chloroethane	<0.00198	U	0.0500	0.04658		mg/L		93	60 - 140
Chloroform	<0.000464	U	0.0500	0.05627		mg/L		113	70 - 130
Chloromethane	<0.00204	U	0.0500	0.04584		mg/L		92	60 - 140
cis-1,2-Dichloroethene	<0.000457	U	0.0500	0.05474		mg/L		109	75 - 125
cis-1,3-Dichloropropene	<0.00107	U	0.0500	0.05538		mg/L		111	74 - 125
Dibromochloromethane	<0.000547	U	0.0500	0.05202		mg/L		104	73 - 125
Dichlorodifluoromethane	<0.000785	U F1	0.0500	0.03351	F1	mg/L		67	70 - 130
Ethylbenzene	0.00108		0.0500	0.05444		mg/L		107	75 - 125
Ethylene Dibromide (EDB)	0.00450	J	0.0500	0.05858		mg/L		108	73 - 125
Hexachlorobutadiene	<0.000627	U	0.0500	0.05505		mg/L		110	75 - 125
Isopropylbenzene	<0.000592	U	0.0500	0.05244		mg/L		105	75 - 125
m,p-Xylenes	0.00850	J	0.0500	0.06096		mg/L		105	75 - 125
Methylene Chloride	<0.00173	U	0.0500	0.04962		mg/L		99	75 - 125
MTBE	<0.00139	U	0.0500	0.05881		mg/L		118	65 - 135
Naphthalene	0.00769	J	0.0500	0.06794		mg/L		121	70 - 130
n-Butylbenzene	<0.000510	U	0.0500	0.05747		mg/L		115	75 - 125
N-Propylbenzene	<0.000429	U	0.0500	0.05503		mg/L		110	75 - 125
o-Xylene	0.00575		0.0500	0.05932		mg/L		107	75 - 125
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.0500	0.05770		mg/L		115	75 - 125
sec-Butylbenzene	<0.000468	U	0.0500	0.05701		mg/L		114	75 - 125
Styrene	<0.000619	U	0.0500	0.05285		mg/L		106	75 - 125
tert-Butylbenzene	<0.000442	U	0.0500	0.05412		mg/L		108	75 - 125
Tetrachloroethene	<0.000655	U	0.0500	0.04960		mg/L		99	71 - 125
Toluene	0.0236		0.0500	0.07633		mg/L		106	59 - 139
trans-1,2-Dichloroethene	<0.000368	U	0.0500	0.05797		mg/L		116	75 - 125
trans-1,3-Dichloropropene	<0.00127	U	0.0500	0.05497		mg/L		110	66 - 125
Trichloroethene	<0.00150	U	0.0500	0.05282		mg/L		106	62 - 137
Trichlorofluoromethane	<0.000560	U	0.0500	0.04946		mg/L		99	60 - 140
Vinyl chloride	<0.000428	U	0.0500	0.04853		mg/L		97	60 - 140
2-Methylnaphthalene	<0.00330	U F1	0.0500	0.07588	F1	mg/L		152	75 - 125
1-Methylnaphthalene	<0.00346	U	0.0500	0.07776		mg/L		156	75 - 199
		MS	MS						
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	105		63 - 144						
4-Bromofluorobenzene (Surr)	105		74 - 124						
Dibromofluoromethane (Surr)	105		75 - 131						
Toluene-d8 (Surr)	101		80 - 120						

QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-131033/1-A
Matrix: Water
Analysis Batch: 131151

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 131033

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		11/14/23 16:26	11/15/23 19:21	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		11/14/23 16:26	11/15/23 19:21	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		11/14/23 16:26	11/15/23 19:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	92		70 - 135			11/14/23 16:26	11/15/23 19:21	1	
o-Terphenyl (Surr)	86		70 - 135			11/14/23 16:26	11/15/23 19:21	1	

Lab Sample ID: MB 860-131033/1-A
Matrix: Water
Analysis Batch: 131535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 131033

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		11/14/23 16:26	11/17/23 10:59	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		11/14/23 16:26	11/17/23 10:59	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		11/14/23 16:26	11/17/23 10:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	75		70 - 135			11/14/23 16:26	11/17/23 10:59	1	
o-Terphenyl (Surr)	85		70 - 135			11/14/23 16:26	11/17/23 10:59	1	

Lab Sample ID: LCS 860-131033/2-A
Matrix: Water
Analysis Batch: 131334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 131033

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	100	89.51		mg/L		90	70 - 135		
Diesel Range Organics (Over C10-C28)	100	107.0		mg/L		107	70 - 135		
Surrogate	LCS	LCS	Qualifier	Limits			%Rec	RPD	RPD Limit
1-Chlorooctane (Surr)		98		70 - 135					
o-Terphenyl (Surr)		87		70 - 135					

Lab Sample ID: LCSD 860-131033/3-A
Matrix: Water
Analysis Batch: 131334

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 131033

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	100	85.20		mg/L		85	70 - 135	5	35
Diesel Range Organics (Over C10-C28)	100	101.7		mg/L		102	70 - 135	5	35

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QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 860-131033/3-A
Matrix: Water
Analysis Batch: 131334

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 131033

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	94		70 - 135
o-Terphenyl (Surr)	85		70 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-130567/100
Matrix: Water
Analysis Batch: 130567

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.250	U	0.500	0.250	mg/L			11/11/23 08:48	1
Sulfate	<0.200	U	0.500	0.200	mg/L			11/11/23 08:48	1

Lab Sample ID: MB 860-130567/3
Matrix: Water
Analysis Batch: 130567

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.250	U	0.500	0.250	mg/L			11/10/23 18:40	1
Sulfate	<0.200	U	0.500	0.200	mg/L			11/10/23 18:40	1

Lab Sample ID: LCS 860-130567/101
Matrix: Water
Analysis Batch: 130567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chloride	10.0	9.745		mg/L		97	90 - 110
Sulfate	10.0	9.711		mg/L		97	90 - 110

Lab Sample ID: LCSD 860-130567/102
Matrix: Water
Analysis Batch: 130567

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
Chloride	10.0	9.774		mg/L		98	90 - 110	0	20
Sulfate	10.0	9.725		mg/L		97	90 - 110	0	20

Lab Sample ID: LLCS 860-130567/7
Matrix: Water
Analysis Batch: 130567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS LLCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chloride	0.500	0.4200	J	mg/L		84	50 - 150
Sulfate	0.500	0.3913	J	mg/L		78	50 - 150

QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: Former Y Station

Job ID: 860-61182-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-61182-1 MS
Matrix: Water
Analysis Batch: 130567

Client Sample ID: Raw Water Infl
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	81.8		10.0	90.53	4	mg/L		87	90 - 110
Sulfate	47.3		10.0	56.50	4	mg/L		92	90 - 110

Lab Sample ID: 860-61182-1 MSD
Matrix: Water
Analysis Batch: 130567

Client Sample ID: Raw Water Infl
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	81.8		10.0	90.62	4	mg/L		88	90 - 110	0	15
Sulfate	47.3		10.0	56.53	4	mg/L		92	90 - 110	0	15

Lab Sample ID: MB 860-130568/100
Matrix: Water
Analysis Batch: 130568

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			11/11/23 08:48	1

Lab Sample ID: MB 860-130568/3
Matrix: Water
Analysis Batch: 130568

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			11/10/23 18:40	1

Lab Sample ID: LCS 860-130568/101
Matrix: Water
Analysis Batch: 130568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.698		mg/L		97	80 - 120

Lab Sample ID: LCSD 860-130568/102
Matrix: Water
Analysis Batch: 130568

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	9.726		mg/L		97	80 - 120	0	20

Lab Sample ID: LLCS 860-130568/6
Matrix: Water
Analysis Batch: 130568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.1019		mg/L		102	50 - 150

QC Sample Results

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: Former Y Station

Job ID: 860-61182-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-61182-1 MS
Matrix: Water
Analysis Batch: 130568

Client Sample ID: Raw Water Infl
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.25		10.0	11.53		mg/L		93	80 - 120

Lab Sample ID: 860-61182-1 MSD
Matrix: Water
Analysis Batch: 130568

Client Sample ID: Raw Water Infl
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	2.25		10.0	11.54		mg/L		93	80 - 120	0	15

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

GC/MS VOA

Analysis Batch: 130976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61182-1	Raw Water Infl	Total/NA	Water	8260C	
860-61182-2	Treated Water Effl	Total/NA	Water	8260C	
MB 860-130976/9	Method Blank	Total/NA	Water	8260C	
LCS 860-130976/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-130976/4	Lab Control Sample Dup	Total/NA	Water	8260C	
860-61182-2 MS	Treated Water Effl	Total/NA	Water	8260C	

GC Semi VOA

Analysis Batch: 130308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61182-1	Raw Water Infl	Total/NA	Water	8015 NM	
860-61182-2	Treated Water Effl	Total/NA	Water	8015 NM	

Prep Batch: 131033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61182-1	Raw Water Infl	Total/NA	Water	8015NM Aq Prep	
860-61182-2	Treated Water Effl	Total/NA	Water	8015NM Aq Prep	
MB 860-131033/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-131033/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-131033/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 131151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-131033/1-A	Method Blank	Total/NA	Water	8015B NM	131033

Analysis Batch: 131154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61182-1	Raw Water Infl	Total/NA	Water	8015B NM	131033
860-61182-2	Treated Water Effl	Total/NA	Water	8015B NM	131033

Analysis Batch: 131334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-131033/2-A	Lab Control Sample	Total/NA	Water	8015B NM	131033
LCSD 860-131033/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	131033

Analysis Batch: 131535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-131033/1-A	Method Blank	Total/NA	Water	8015B NM	131033

HPLC/IC

Analysis Batch: 130567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61182-1	Raw Water Infl	Total/NA	Water	300.0	
860-61182-2	Treated Water Effl	Total/NA	Water	300.0	
MB 860-130567/100	Method Blank	Total/NA	Water	300.0	
MB 860-130567/3	Method Blank	Total/NA	Water	300.0	
LCS 860-130567/101	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-130567/102	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-130567/7	Lab Control Sample	Total/NA	Water	300.0	
860-61182-1 MS	Raw Water Infl	Total/NA	Water	300.0	

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QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

HPLC/IC (Continued)

Analysis Batch: 130567 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61182-1 MSD	Raw Water Infl	Total/NA	Water	300.0	

Analysis Batch: 130568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-61182-1	Raw Water Infl	Total/NA	Water	300.0	
860-61182-2	Treated Water Effl	Total/NA	Water	300.0	
MB 860-130568/100	Method Blank	Total/NA	Water	300.0	
MB 860-130568/3	Method Blank	Total/NA	Water	300.0	
LCS 860-130568/101	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-130568/102	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-130568/6	Lab Control Sample	Total/NA	Water	300.0	
860-61182-1 MS	Raw Water Infl	Total/NA	Water	300.0	
860-61182-1 MSD	Raw Water Infl	Total/NA	Water	300.0	

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
 Project/Site: Former Y Station

Job ID: 860-61182-1

Client Sample ID: Raw Water Infl

Lab Sample ID: 860-61182-1

Date Collected: 11/09/23 10:55

Matrix: Water

Date Received: 11/10/23 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	5 mL	5 mL	130976	11/15/23 06:07	AN	EET HOU
Total/NA	Analysis	8015 NM		1			130308	11/16/23 00:44	ELJ	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.1 mL	3 mL	131033	11/14/23 16:26	BNW	EET HOU
Total/NA	Analysis	8015B NM		1			131154	11/16/23 00:44	T1S	EET HOU
Total/NA	Analysis	300.0		1			130567	11/11/23 09:29	WP	EET HOU
Total/NA	Analysis	300.0		1			130568	11/11/23 09:29	WP	EET HOU

Client Sample ID: Treated Water Effl

Lab Sample ID: 860-61182-2

Date Collected: 11/09/23 11:20

Matrix: Water

Date Received: 11/10/23 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130976	11/15/23 00:44	AN	EET HOU
Total/NA	Analysis	8015 NM		1			130308	11/16/23 01:04	ELJ	EET HOU
Total/NA	Prep	8015NM Aq Prep			27.4 mL	3 mL	131033	11/14/23 16:26	BNW	EET HOU
Total/NA	Analysis	8015B NM		1			131154	11/16/23 01:04	T1S	EET HOU
Total/NA	Analysis	300.0		1			130567	11/11/23 10:25	WP	EET HOU
Total/NA	Analysis	300.0		1			130568	11/11/23 10:25	WP	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

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Method Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station

Job ID: 860-61182-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
860-61182-1	Raw Water Infl	Water	11/09/23 10:55	11/10/23 10:09
860-61182-2	Treated Water Effl	Water	11/09/23 11:20	11/10/23 10:09

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Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

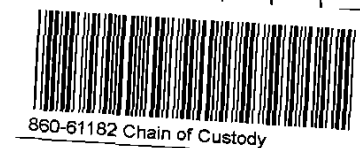
Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Grace Herrmann	Bill to: (if different)	
Company Name:	Daniel B Stephens & Asst.	Company Name:	
Address:	6020 Academy Rd NE ^{Sub A} 100	Address:	
City State ZIP:	Albuquerque, NM 87109	City State ZIP:	
Phone:	1-(505) 379-0934	Email:	

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other

Project Name:		Former Y Station		Turn Around		ANALYSIS REQUEST										Preservative Codes						
Project Number:		DB 18-1157		<input type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code										None NO DI Water H ₂ O						
Project Location:		Cloves, NM		Due Date:		Parameters VOC / EDB TPH GRO / DRD Sulfate (Chloride) Nitrate (AsN)										Cool: Cool MeOH: Me						
Sampler's Name:		Roy Villanar		TAT starts the day received by the lab, if received by 4:30pm		HCL-HF H ₂ SO ₄ H ₂										HNO ₃ : HN						
PO #:																NaOH: Na						
SAMPLE RECEIPT			Temp Blank	Yes No	Wet Ice:	Yes No											H ₃ PO ₄ : HP					
Samples Received Intact:			Yes No		Thermometer ID:												NaHSO ₄ : NABIS					
Cooler Custody Seals:			Yes No N/A		Correction Factor:												Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:			Yes No N/A		Temperature Reading:												Zn Acetate+NaOH: Zn					
Total Containers:					Corrected Temperature:												OH+Ascorbic Acid: SAPC					
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont											Sample Comments				
Raw Water Infl.		B	11/9/23	1055		G	10	X	X	X	X											
Treated Water Efflu			11/9/23	1120		G	10	X	X	X	X											



Temp: 30 IR ID HOU-369
 C/F -00
 Corrected Temp: 30

Total 200.7/6010 200.8/6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Roy Villanar	Fred Ex	11/9/23 1930	2 [Signature]	[Signature]	11/10/23 10:09
3			4		
5			6		

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 860-61182-1

Login Number: 61182

List Number: 1

Creator: Torrez, Lisandra

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

December 06, 2023

Grace Herrmann

Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL: (505) 822-9400
FAX: (505) 822-8877

RE: Former Y Station State Lead Site

OrderNo.: 2311935

Dear Grace Herrmann:

Eurofins Environment Testing South Central, LLC received 6 sample(s) on 11/17/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311935

Date Reported: 12/6/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated Eff

Project: Former Y Station State Lead Site

Collection Date: 11/16/2023 4:26:00 PM

Lab ID: 2311935-001

Matrix: AQUEOUS

Received Date: 11/17/2023 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	85	10		mg/L	20	11/17/2023 8:08:10 PM	R101299
Nitrogen, Nitrate (As N)	2.1	0.10		mg/L	1	11/17/2023 7:55:18 PM	R101299
Sulfate	45	10		mg/L	20	11/17/2023 8:08:10 PM	R101299
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	496	100	D	mg/L	1	11/27/2023 11:13:00 AM	78918
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	6.3	0.47		µg/L	50	11/21/2023 9:25:34 AM	78808
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: PRD
Diesel Range Organics (DRO)	2.8	1.0		mg/L	1	11/20/2023 2:46:16 PM	78903
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/20/2023 2:46:16 PM	78903
Surr: DNOP	118	54.5-177		%Rec	1	11/20/2023 2:46:16 PM	78903
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	0.45	0.050		mg/L	1	11/27/2023 11:31:08 PM	GW1013
Surr: BFB	97.0	15-270		%Rec	1	11/27/2023 11:31:08 PM	GW1013
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	59	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Toluene	38	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Ethylbenzene	2.4	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,2,4-Trimethylbenzene	3.6	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,3,5-Trimethylbenzene	1.4	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,2-Dichloroethane (EDC)	30	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,2-Dibromoethane (EDB)	6.1	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Naphthalene	12	2.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1-Methylnaphthalene	ND	4.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
2-Methylnaphthalene	ND	4.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Acetone	63	10		µg/L	1	11/28/2023 5:13:00 PM	R101440
Bromobenzene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Bromodichloromethane	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Bromoform	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Bromomethane	ND	3.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
2-Butanone	39	10		µg/L	1	11/28/2023 5:13:00 PM	R101440
Carbon disulfide	ND	10		µg/L	1	11/28/2023 5:13:00 PM	R101440
Carbon Tetrachloride	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Chlorobenzene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Chloroethane	ND	2.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Chloroform	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311935

Date Reported: 12/6/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated Eff

Project: Former Y Station State Lead Site

Collection Date: 11/16/2023 4:26:00 PM

Lab ID: 2311935-001

Matrix: AQUEOUS

Received Date: 11/17/2023 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Chloromethane	ND	3.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
2-Chlorotoluene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
4-Chlorotoluene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
cis-1,2-DCE	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Dibromochloromethane	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Dibromomethane	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,1-Dichloroethane	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,1-Dichloroethene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,2-Dichloropropane	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,3-Dichloropropane	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
2,2-Dichloropropane	ND	2.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,1-Dichloropropene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Hexachlorobutadiene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
2-Hexanone	62	10		µg/L	1	11/28/2023 5:13:00 PM	R101440
Isopropylbenzene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
4-Isopropyltoluene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
4-Methyl-2-pentanone	14	10		µg/L	1	11/28/2023 5:13:00 PM	R101440
Methylene Chloride	ND	3.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
n-Butylbenzene	ND	3.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
n-Propylbenzene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
sec-Butylbenzene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Styrene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
tert-Butylbenzene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
trans-1,2-DCE	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311935

Date Reported: 12/6/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated Eff

Project: Former Y Station State Lead Site

Collection Date: 11/16/2023 4:26:00 PM

Lab ID: 2311935-001

Matrix: AQUEOUS

Received Date: 11/17/2023 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Vinyl chloride	ND	1.0		µg/L	1	11/28/2023 5:13:00 PM	R101440
Xylenes, Total	25	1.5		µg/L	1	11/28/2023 5:13:00 PM	R101440
Surr: 1,2-Dichloroethane-d4	97.3	70-130		%Rec	1	11/28/2023 5:13:00 PM	R101440
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	11/28/2023 5:13:00 PM	R101440
Surr: Dibromofluoromethane	97.3	70-130		%Rec	1	11/28/2023 5:13:00 PM	R101440
Surr: Toluene-d8	94.0	70-130		%Rec	1	11/28/2023 5:13:00 PM	R101440

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311935

Date Reported: 12/6/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y Station State Lead Site

Collection Date: 11/16/2023 4:15:00 PM

Lab ID: 2311935-002

Matrix: AQUEOUS

Received Date: 11/17/2023 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	86	10		mg/L	20	11/17/2023 8:33:53 PM	R101299
Nitrogen, Nitrate (As N)	2.2	0.10		mg/L	1	11/17/2023 8:21:01 PM	R101299
Sulfate	45	10		mg/L	20	11/17/2023 8:33:53 PM	R101299
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	502	100	*D	mg/L	1	11/27/2023 11:13:00 AM	78918
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	21	1.9		µg/L	200	11/21/2023 10:41:45 AM	78808
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: PRD
Diesel Range Organics (DRO)	2.8	1.0		mg/L	1	11/20/2023 3:10:00 PM	78903
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/20/2023 3:10:00 PM	78903
Surr: DNOP	121	54.5-177		%Rec	1	11/20/2023 3:10:00 PM	78903
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	7.8	1.0		mg/L	20	11/27/2023 11:54:11 PM	GW1013
Surr: BFB	88.8	15-270		%Rec	20	11/27/2023 11:54:11 PM	GW1013
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	1400	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
Toluene	1000	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
Ethylbenzene	70	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,2,4-Trimethylbenzene	73	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,3,5-Trimethylbenzene	36	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,2-Dichloroethane (EDC)	180	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
Naphthalene	ND	40		µg/L	20	11/28/2023 6:25:00 PM	R101440
1-Methylnaphthalene	ND	80		µg/L	20	11/28/2023 6:25:00 PM	R101440
2-Methylnaphthalene	ND	80		µg/L	20	11/28/2023 6:25:00 PM	R101440
Acetone	ND	200		µg/L	20	11/28/2023 6:25:00 PM	R101440
Bromobenzene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
Bromodichloromethane	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
Bromoform	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
Bromomethane	ND	60		µg/L	20	11/28/2023 6:25:00 PM	R101440
2-Butanone	ND	200		µg/L	20	11/28/2023 6:25:00 PM	R101440
Carbon disulfide	ND	200		µg/L	20	11/28/2023 6:25:00 PM	R101440
Carbon Tetrachloride	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
Chlorobenzene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
Chloroethane	ND	40		µg/L	20	11/28/2023 6:25:00 PM	R101440
Chloroform	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311935

Date Reported: 12/6/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y Station State Lead Site

Collection Date: 11/16/2023 4:15:00 PM

Lab ID: 2311935-002

Matrix: AQUEOUS

Received Date: 11/17/2023 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Chloromethane	ND	60		µg/L	20	11/28/2023 6:25:00 PM	R101440
2-Chlorotoluene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
4-Chlorotoluene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
cis-1,2-DCE	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
cis-1,3-Dichloropropene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	11/28/2023 6:25:00 PM	R101440
Dibromochloromethane	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
Dibromomethane	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,2-Dichlorobenzene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,3-Dichlorobenzene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,4-Dichlorobenzene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
Dichlorodifluoromethane	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,1-Dichloroethane	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,1-Dichloroethene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,2-Dichloropropane	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,3-Dichloropropane	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
2,2-Dichloropropane	ND	40		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,1-Dichloropropene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
Hexachlorobutadiene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
2-Hexanone	ND	200		µg/L	20	11/28/2023 6:25:00 PM	R101440
Isopropylbenzene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
4-Isopropyltoluene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
4-Methyl-2-pentanone	ND	200		µg/L	20	11/28/2023 6:25:00 PM	R101440
Methylene Chloride	ND	60		µg/L	20	11/28/2023 6:25:00 PM	R101440
n-Butylbenzene	ND	60		µg/L	20	11/28/2023 6:25:00 PM	R101440
n-Propylbenzene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
sec-Butylbenzene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
Styrene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
tert-Butylbenzene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	11/28/2023 6:25:00 PM	R101440
Tetrachloroethene (PCE)	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
trans-1,2-DCE	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
trans-1,3-Dichloropropene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,2,3-Trichlorobenzene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,2,4-Trichlorobenzene	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,1,1-Trichloroethane	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,1,2-Trichloroethane	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
Trichloroethene (TCE)	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311935

Date Reported: 12/6/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y Station State Lead Site

Collection Date: 11/16/2023 4:15:00 PM

Lab ID: 2311935-002

Matrix: AQUEOUS

Received Date: 11/17/2023 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Trichlorofluoromethane	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
1,2,3-Trichloropropane	ND	40		µg/L	20	11/28/2023 6:25:00 PM	R101440
Vinyl chloride	ND	20		µg/L	20	11/28/2023 6:25:00 PM	R101440
Xylenes, Total	590	30		µg/L	20	11/28/2023 6:25:00 PM	R101440
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%Rec	20	11/28/2023 6:25:00 PM	R101440
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	20	11/28/2023 6:25:00 PM	R101440
Surr: Dibromofluoromethane	97.8	70-130		%Rec	20	11/28/2023 6:25:00 PM	R101440
Surr: Toluene-d8	95.9	70-130		%Rec	20	11/28/2023 6:25:00 PM	R101440

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311935

Date Reported: 12/6/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY OX Eff

Project: Former Y Station State Lead Site

Collection Date: 11/16/2023 4:56:00 PM

Lab ID: 2311935-003

Matrix: AIR

Received Date: 11/17/2023 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	420	25		µg/L	5	11/21/2023 1:12:04 PM	GA10134
Surr: BFB	103	15-412		%Rec	5	11/21/2023 1:12:04 PM	GA10134
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	1.2		µg/L	5	11/21/2023 1:12:04 PM	BA10134
Benzene	44	0.50		µg/L	5	11/21/2023 1:12:04 PM	BA10134
Toluene	40	0.50		µg/L	5	11/21/2023 1:12:04 PM	BA10134
Ethylbenzene	3.9	0.50		µg/L	5	11/21/2023 1:12:04 PM	BA10134
Xylenes, Total	18	1.0		µg/L	5	11/21/2023 1:12:04 PM	BA10134
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	5	11/21/2023 1:12:04 PM	BA10134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311935

Date Reported: 12/6/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Comb Inf

Project: Former Y Station State Lead Site

Collection Date: 11/16/2023 4:45:00 PM

Lab ID: 2311935-004

Matrix: AIR

Received Date: 11/17/2023 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	16000	500		µg/L	100	11/21/2023 12:24:44 PM	GA10134
Surr: BFB	111	15-412		%Rec	100	11/21/2023 12:24:44 PM	GA10134
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	100	11/21/2023 12:24:44 PM	BA10134
Benzene	330	10		µg/L	100	11/21/2023 12:24:44 PM	BA10134
Toluene	740	10		µg/L	100	11/21/2023 12:24:44 PM	BA10134
Ethylbenzene	57	10		µg/L	100	11/21/2023 12:24:44 PM	BA10134
Xylenes, Total	330	20		µg/L	100	11/21/2023 12:24:44 PM	BA10134
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	100	11/21/2023 12:24:44 PM	BA10134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311935

Date Reported: 12/6/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY DTA Eff

Project: Former Y Station State Lead Site

Collection Date: 11/16/2023 4:54:00 PM

Lab ID: 2311935-005

Matrix: AIR

Received Date: 11/17/2023 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	180	5.0		µg/L	1	11/21/2023 12:48:23 PM	GA10134
Surr: BFB	140	15-412		%Rec	1	11/21/2023 12:48:23 PM	GA10134
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	11/21/2023 12:48:23 PM	BA10134
Benzene	19	0.50		µg/L	5	11/21/2023 1:35:39 PM	BA10134
Toluene	19	0.50		µg/L	5	11/21/2023 1:35:39 PM	BA10134
Ethylbenzene	2.3	0.10		µg/L	1	11/21/2023 12:48:23 PM	BA10134
Xylenes, Total	17	0.20		µg/L	1	11/21/2023 12:48:23 PM	BA10134
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	11/21/2023 12:48:23 PM	BA10134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311935

Date Reported: 12/6/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y Station State Lead Site

Collection Date:

Lab ID: 2311935-006

Matrix: TRIP BLANK

Received Date: 11/17/2023 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.0095		µg/L	1	11/20/2023 11:28:50 PM	78808
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Toluene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Ethylbenzene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Naphthalene	ND	2.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1-Methylnaphthalene	ND	4.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
2-Methylnaphthalene	ND	4.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Acetone	ND	10		µg/L	1	11/28/2023 6:49:00 PM	R101440
Bromobenzene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Bromodichloromethane	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Bromoform	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Bromomethane	ND	3.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
2-Butanone	ND	10		µg/L	1	11/28/2023 6:49:00 PM	R101440
Carbon disulfide	ND	10		µg/L	1	11/28/2023 6:49:00 PM	R101440
Carbon Tetrachloride	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Chlorobenzene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Chloroethane	ND	2.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Chloroform	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Chloromethane	ND	3.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
2-Chlorotoluene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
4-Chlorotoluene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
cis-1,2-DCE	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Dibromochloromethane	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Dibromomethane	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,1-Dichloroethane	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,1-Dichloroethene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,2-Dichloropropane	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311935

Date Reported: 12/6/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y Station State Lead Site

Collection Date:

Lab ID: 2311935-006

Matrix: TRIP BLANK

Received Date: 11/17/2023 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
2,2-Dichloropropane	ND	2.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,1-Dichloropropene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Hexachlorobutadiene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
2-Hexanone	ND	10		µg/L	1	11/28/2023 6:49:00 PM	R101440
Isopropylbenzene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
4-Isopropyltoluene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
4-Methyl-2-pentanone	ND	10		µg/L	1	11/28/2023 6:49:00 PM	R101440
Methylene Chloride	ND	3.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
n-Butylbenzene	ND	3.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
n-Propylbenzene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
sec-Butylbenzene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Styrene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
tert-Butylbenzene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
trans-1,2-DCE	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Trichlorofluoromethane	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Vinyl chloride	ND	1.0		µg/L	1	11/28/2023 6:49:00 PM	R101440
Xylenes, Total	ND	1.5		µg/L	1	11/28/2023 6:49:00 PM	R101440
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%Rec	1	11/28/2023 6:49:00 PM	R101440
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	11/28/2023 6:49:00 PM	R101440
Surr: Dibromofluoromethane	97.2	70-130		%Rec	1	11/28/2023 6:49:00 PM	R101440
Surr: Toluene-d8	95.0	70-130		%Rec	1	11/28/2023 6:49:00 PM	R101440

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311935

06-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBW	Batch ID: R101299	RunNo: 101299
Prep Date:	Analysis Date: 11/17/2023	SeqNo: 3725759 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSW	Batch ID: R101299	RunNo: 101299
Prep Date:	Analysis Date: 11/17/2023	SeqNo: 3725760 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	96.5	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.9	90	110			
Sulfate	9.7	0.50	10.00	0	97.0	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Above Quantitation Range/Estimated Value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of standard limits. If undiluted results may be estimated. | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311935

06-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-78808	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 78808	RunNo: 101321								
Prep Date: 11/20/2023	Analysis Date: 11/20/2023	SeqNo: 3727201	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-78808	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 78808	RunNo: 101321								
Prep Date: 11/20/2023	Analysis Date: 11/20/2023	SeqNo: 3727203	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	123	70	130			

Sample ID: LCSD-78808	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 78808	RunNo: 101321								
Prep Date: 11/20/2023	Analysis Date: 11/20/2023	SeqNo: 3727205	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	124	70	130	0.886	20	

Sample ID: MB-78808	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 78808	RunNo: 101321								
Prep Date: 11/20/2023	Analysis Date: 11/20/2023	SeqNo: 3727233	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-78808	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 78808	RunNo: 101321								
Prep Date: 11/20/2023	Analysis Date: 11/20/2023	SeqNo: 3727234	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	118	70	130			

Sample ID: LCSD-78808	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 78808	RunNo: 101321								
Prep Date: 11/20/2023	Analysis Date: 11/20/2023	SeqNo: 3727235	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	117	70	130	0.835	20	

Qualifiers:

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311935

06-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-78903	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: PBW	Batch ID: 78903		RunNo: 101343							
Prep Date: 11/20/2023	Analysis Date: 11/20/2023		SeqNo: 3727654		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.62		0.5000		124	54.5	177			

Sample ID: LCS-78903	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: LCSW	Batch ID: 78903		RunNo: 101343							
Prep Date: 11/20/2023	Analysis Date: 11/20/2023		SeqNo: 3727655		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	3.2	1.0	2.500	0	130	57	147			
Surr: DNOP	0.29		0.2500		114	54.5	177			

Sample ID: 2311935-002CMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: FY Raw	Batch ID: 78903		RunNo: 101343							
Prep Date: 11/20/2023	Analysis Date: 11/20/2023		SeqNo: 3727660		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.0	1.0	2.500	2.798	130	47.3	147			
Surr: DNOP	0.29		0.2500		117	54.5	177			

Sample ID: 2311935-002CMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: FY Raw	Batch ID: 78903		RunNo: 101343							
Prep Date: 11/20/2023	Analysis Date: 11/20/2023		SeqNo: 3727661		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.8	1.0	2.500	2.798	120	47.3	147	4.15	20	
Surr: DNOP	0.28		0.2500		110	54.5	177	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311935

06-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 2.5UG GRO LCS	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: GA101345		RunNo: 101345							
Prep Date:	Analysis Date: 11/21/2023		SeqNo: 3727722		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	94.3	70	130			
Surr: BFB	38		20.00		190	15	270			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: GA101345		RunNo: 101345							
Prep Date:	Analysis Date: 11/21/2023		SeqNo: 3727723		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		91.2	15	270			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: GW101398		RunNo: 101398							
Prep Date:	Analysis Date: 11/27/2023		SeqNo: 3731756		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.43	0.050	0.5000	0	85.7	70	130			
Surr: BFB	37		20.00		185	15	270			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: GW101398		RunNo: 101398							
Prep Date:	Analysis Date: 11/27/2023		SeqNo: 3731757		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	17		20.00		86.6	15	270			

Qualifiers:

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- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311935

06-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 100NG LCS4		SampType: LCS4		TestCode: EPA Method 8260B: VOLATILES						
Client ID: BatchQC		Batch ID: R101440		RunNo: 101440						
Prep Date:		Analysis Date: 11/28/2023		SeqNo: 3732506			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.5	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Ethylbenzene	19	1.0	20.00	0	97.4	70	130			
Methyl tert-butyl ether (MTBE)	31	1.0	40.00	0	78.7	70	130			
1,2,4-Trimethylbenzene	20	1.0	20.00	0	100	70	130			
1,3,5-Trimethylbenzene	20	1.0	20.00	0	97.6	70	130			
1,2-Dichloroethane (EDC)	21	1.0	20.00	0	103	70	130			
1,2-Dibromoethane (EDB)	20	1.0	20.00	0	99.3	70	130			
Naphthalene	19	2.0	20.00	0	95.4	70	130			
1-Methylnaphthalene	19	4.0	20.00	0	93.4	60.3	126			
2-Methylnaphthalene	18	4.0	20.00	0	90.4	59	127			
Acetone	41	10	40.00	0	101	53.2	126			
Bromobenzene	20	1.0	20.00	0	98.1	70	130			
Bromodichloromethane	21	1.0	20.00	0	105	70	130			
Bromoform	19	1.0	20.00	0	94.7	70	130			
Bromomethane	18	3.0	20.00	0	89.7	15	213			
2-Butanone	40	10	40.00	0	99.0	59.4	136			
Carbon disulfide	33	10	40.00	0	81.4	70	130			
Carbon Tetrachloride	19	1.0	20.00	0	96.7	70	130			
Chlorobenzene	20	1.0	20.00	0	99.7	70	130			
Chloroethane	21	2.0	20.00	0	106	69.5	131			
Chloroform	20	1.0	20.00	0	102	70	130			
Chloromethane	19	3.0	20.00	0	96.4	56.9	143			
2-Chlorotoluene	20	1.0	20.00	0	101	70	130			
4-Chlorotoluene	20	1.0	20.00	0	102	70	130			
cis-1,2-DCE	19	1.0	20.00	0	97.0	70	130			
cis-1,3-Dichloropropene	20	1.0	20.00	0	98.2	70	130			
1,2-Dibromo-3-chloropropane	20	2.0	20.00	0	98.8	62.3	135			
Dibromochloromethane	20	1.0	20.00	0	98.9	70	130			
Dibromomethane	21	1.0	20.00	0	103	70	130			
1,2-Dichlorobenzene	20	1.0	20.00	0	98.3	70	130			
1,3-Dichlorobenzene	20	1.0	20.00	0	99.0	70	130			
1,4-Dichlorobenzene	20	1.0	20.00	0	100	70	130			
Dichlorodifluoromethane	23	1.0	20.00	0	113	41	159			
1,1-Dichloroethane	20	1.0	20.00	0	102	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	87.9	70	130			
1,2-Dichloropropane	20	1.0	20.00	0	102	70	130			
1,3-Dichloropropane	20	1.0	20.00	0	101	70	130			
2,2-Dichloropropane	20	2.0	20.00	0	99.6	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311935

06-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 100NG LCS4		SampType: LCS4		TestCode: EPA Method 8260B: VOLATILES						
Client ID: BatchQC		Batch ID: R101440		RunNo: 101440						
Prep Date:		Analysis Date: 11/28/2023		SeqNo: 3732506			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	21	1.0	20.00	0	106	70	130			
Hexachlorobutadiene	19	1.0	20.00	0	96.5	63.6	129			
2-Hexanone	38	10	40.00	0	94.5	63.2	130			
Isopropylbenzene	19	1.0	20.00	0	93.1	70	130			
4-Isopropyltoluene	20	1.0	20.00	0	102	70	130			
4-Methyl-2-pentanone	37	10	40.00	0	92.6	64.7	132			
Methylene Chloride	21	3.0	20.00	0	103	70	130			
n-Butylbenzene	20	3.0	20.00	0	98.5	70	130			
n-Propylbenzene	20	1.0	20.00	0	100	70	130			
sec-Butylbenzene	20	1.0	20.00	0	98.8	70	130			
Styrene	19	1.0	20.00	0	95.1	70	130			
tert-Butylbenzene	20	1.0	20.00	0	98.2	70	130			
1,1,1,2-Tetrachloroethane	20	1.0	20.00	0	97.5	70	130			
1,1,2,2-Tetrachloroethane	21	2.0	20.00	0	107	65.8	138			
Tetrachloroethene (PCE)	19	1.0	20.00	0	97.2	70	130			
trans-1,2-DCE	19	1.0	20.00	0	95.3	70	130			
trans-1,3-Dichloropropene	20	1.0	20.00	0	98.4	70	130			
1,2,3-Trichlorobenzene	20	1.0	20.00	0	98.6	70	130			
1,2,4-Trichlorobenzene	19	1.0	20.00	0	95.8	70	130			
1,1,1-Trichloroethane	20	1.0	20.00	0	97.5	70	130			
1,1,2-Trichloroethane	21	1.0	20.00	0	103	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	98.0	70	130			
Trichlorofluoromethane	20	1.0	20.00	0	103	70	130			
1,2,3-Trichloropropane	20	2.0	20.00	0	99.9	70	130			
Vinyl chloride	22	1.0	20.00	0	108	70	130			
Xylenes, Total	60	1.5	60.00	0	99.5	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.0	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.8	70	130			
Surr: Toluene-d8	9.7		10.00		97.4	70	130			

Sample ID: mb		SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW		Batch ID: R101440		RunNo: 101440						
Prep Date:		Analysis Date: 11/28/2023		SeqNo: 3733338			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311935

06-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R101440	RunNo: 101440								
Prep Date:	Analysis Date: 11/28/2023	SeqNo: 3733338			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311935

06-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R101440		RunNo: 101440							
Prep Date:	Analysis Date: 11/28/2023		SeqNo: 3733338				Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.7	70	130			
Surr: Toluene-d8	9.7		10.00		96.9	70	130			

Sample ID: 2311935-001ams	SampType: MS		TestCode: EPA Method 8260B: VOLATILES							
Client ID: FY Treated Eff	Batch ID: R101440		RunNo: 101440							
Prep Date:	Analysis Date: 11/28/2023		SeqNo: 3733370				Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	76	1.0	20.00	59.19	84.3	70	130			
Toluene	57	1.0	20.00	37.94	92.8	70	130			
Chlorobenzene	19	1.0	20.00	0	97.4	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	91.8	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	92.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.4	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311935

06-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 2311935-001ams	SampType: MS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: FY Treated Eff	Batch ID: R101440	RunNo: 101440								
Prep Date:	Analysis Date: 11/28/2023	SeqNo: 3733370	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	9.3		10.00		93.3	70	130			
Surr: Toluene-d8	9.4		10.00		94.3	70	130			

Sample ID: 2311935-001amsd	SampType: MSD	TestCode: EPA Method 8260B: VOLATILES								
Client ID: FY Treated Eff	Batch ID: R101440	RunNo: 101440								
Prep Date:	Analysis Date: 11/28/2023	SeqNo: 3733371	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	74	1.0	20.00	59.19	73.6	70	130	2.85	20	
Toluene	55	1.0	20.00	37.94	84.2	70	130	3.10	20	
Chlorobenzene	19	1.0	20.00	0	94.7	70	130	2.77	20	
1,1-Dichloroethene	17	1.0	20.00	0	87.4	70	130	4.90	20	
Trichloroethene (TCE)	18	1.0	20.00	0	90.8	70	130	1.52	20	
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.5	70	130	0	0	
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130	0	0	
Surr: Dibromofluoromethane	9.5		10.00		94.6	70	130	0	0	
Surr: Toluene-d8	9.5		10.00		95.0	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311935

06-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-78918	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 78918	RunNo: 101397								
Prep Date: 11/21/2023	Analysis Date: 11/27/2023	SeqNo: 3730678	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: LCS-78918	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 78918	RunNo: 101397								
Prep Date: 11/21/2023	Analysis Date: 11/27/2023	SeqNo: 3730679	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1050	50.0	1000	0	105	80	120			

Sample ID: 2311935-002DDUP	SampType: DUP	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: FY Raw	Batch ID: 78918	RunNo: 101397								
Prep Date: 11/21/2023	Analysis Date: 11/27/2023	SeqNo: 3730697	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	484	100						3.65	10	D

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Above Quantitation Range/Estimated Value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of standard limits. If undiluted results may be estimated. | |

Sample Log-In Check List

Client Name: **Daniel B. Stephens &** Work Order Number: **2311935** RcptNo: **1**

Received By: **Steve McQuiston** 11/17/2023 8:40:00 AM *Steve McQuiston*

Completed By: **Cheyenne Cason** 11/17/2023 9:24:23 AM *Cheyenne Cason*

Reviewed By: **ju 11/17/23**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: 2
(2 or >12 unless noted)

Adjusted? No

Checked by: DAD 11/17/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____

By Whom: _____ Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

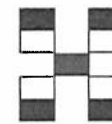
17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good	Not Present	<i>Yogi M</i>	<i>11/17/23</i>	
2	NA	Good	Not Present			

Chain-of-Custody Record

Client: **Daniel B Stephens & Associates**
 Mailing Address: **6020 Academy Rd NE, STE 100**
Albuquerque, NM 87109
 Phone #: **505-822-9400**
 email or Fax#: **gherrmann@geo-logic.com**
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush
 Project Name:
Former Y Station State Lead Site
 Project #:
DB18.1157.0M024.2401
 Project Manager:
Grace Herrmann
 Sampler: **Alex Nunez-Thompson**
 On Ice: Yes No
 # of Coolers: **2** **VOG1**
 Cooler Temp (including CF): **0.7 - 0 = 0.7°C**



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO and DRO - EPA method 8015B	Sulfate/Chloride - EPA method 206-7	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
11/16/23	16:26	H ₂ O	FY Treated EFF	7-40mL; 2-plastic; 1-amber	HCl, Thio, H ₂ SO ₄	231935 001	X	X	X	X	X	X		
11/16/23	16:15	H ₂ O	FY RAW	7-40mL; 2-plastic; 1-amber	HCl, Thio, H ₂ SO ₄	002	X	X	X	X	X	X		
11/16/23	16:56	Air	FY O _x EFF	1-Tedlar	None	003							X	X
11/16/23	16:45	Air	FY Comb Inf	1-Tedlar	None	004							X	X
11/16/23	16:54	Air	FY DTA EFF	1-Tedlar	None	005							X	X
			Trip Blank on 11/17/23			006								

Date: 11/17/23 Time: 8:40 Relinquished by: Alex Nunez-Thompson
 Received by: SCM Via: CDO Date: 11/17/23 Time: 0840
 Date: Time: Relinquished by: Received by: Via: Date: Time:

Remarks:
 SECOND COOLER AIR SAMPLES ONLY.
 TEMP N/A
 SCM 11/17/23

December 13, 2023

Grace Herrmann

Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL: (505) 822-9400
FAX: (505) 822-8877

RE: Former Y Station State Lead Site

OrderNo.: 2311B83

Dear Grace Herrmann:

Eurofins Environment Testing South Central, LLC received 5 sample(s) on 11/22/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311B83

Date Reported: 12/13/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY OX EFF

Project: Former Y Station State Lead Site

Collection Date: 11/21/2023 2:58:00 PM

Lab ID: 2311B83-001

Matrix: AIR

Received Date: 11/22/2023 12:36:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	160	25		µg/L	5	11/29/2023 1:17:28 PM	GW1014
Surr: BFB	94.5	15-412		%Rec	5	11/29/2023 1:17:28 PM	GW1014
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	1.2		µg/L	5	11/29/2023 1:17:28 PM	BW1014
Benzene	24	0.50		µg/L	5	11/29/2023 1:17:28 PM	BW1014
Toluene	15	0.50		µg/L	5	11/29/2023 1:17:28 PM	BW1014
Ethylbenzene	1.2	0.50		µg/L	5	11/29/2023 1:17:28 PM	BW1014
Xylenes, Total	4.1	1.0		µg/L	5	11/29/2023 1:17:28 PM	BW1014
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	5	11/29/2023 1:17:28 PM	BW1014

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311B83

Date Reported: 12/13/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY COMB INF

Project: Former Y Station State Lead Site

Collection Date: 11/21/2023 3:08:00 PM

Lab ID: 2311B83-002

Matrix: AIR

Received Date: 11/22/2023 12:36:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	12000	500		µg/L	100	11/29/2023 1:40:58 PM	GW1014
Surr: BFB	110	15-412		%Rec	100	11/29/2023 1:40:58 PM	GW1014
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	100	11/29/2023 1:40:58 PM	BW1014
Benzene	240	10		µg/L	100	11/29/2023 1:40:58 PM	BW1014
Toluene	540	10		µg/L	100	11/29/2023 1:40:58 PM	BW1014
Ethylbenzene	44	10		µg/L	100	11/29/2023 1:40:58 PM	BW1014
Xylenes, Total	250	20		µg/L	100	11/29/2023 1:40:58 PM	BW1014
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	100	11/29/2023 1:40:58 PM	BW1014

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311B83

Date Reported: 12/13/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated EFF

Project: Former Y Station State Lead Site

Collection Date: 11/22/2023 8:40:00 AM

Lab ID: 2311B83-003

Matrix: GROUNDWA

Received Date: 11/22/2023 12:36:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: RBC
Chloride	84	10		mg/L	20	11/22/2023 7:47:08 PM	R101403
Nitrogen, Nitrate (As N)	2.2	0.10		mg/L	1	11/22/2023 7:31:41 PM	R101403
Sulfate	45	10		mg/L	20	11/22/2023 7:47:08 PM	R101403
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	552	100	*D	mg/L	1	11/29/2023 3:56:00 PM	79014
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	3.4	0.47		µg/L	50	11/30/2023 8:13:25 AM	78984
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: PRD
Diesel Range Organics (DRO)	1.2	1.0		mg/L	1	11/29/2023 3:05:58 AM	78999
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/29/2023 3:05:58 AM	78999
Surr: DNOP	67.6	54.5-177		%Rec	1	11/29/2023 3:05:58 AM	78999
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	0.36	0.050		mg/L	1	11/28/2023 1:26:26 AM	GW1013
Surr: BFB	89.1	15-270		%Rec	1	11/28/2023 1:26:26 AM	GW1013
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	39	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Toluene	26	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Ethylbenzene	1.5	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,2,4-Trimethylbenzene	2.6	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,3,5-Trimethylbenzene	1.1	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,2-Dichloroethane (EDC)	19	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,2-Dibromoethane (EDB)	4.8	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Naphthalene	7.9	2.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1-Methylnaphthalene	ND	4.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
2-Methylnaphthalene	ND	4.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Acetone	67	10		µg/L	1	11/30/2023 8:18:57 PM	R101500
Bromobenzene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Bromodichloromethane	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Bromoform	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Bromomethane	ND	3.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
2-Butanone	42	10		µg/L	1	11/30/2023 8:18:57 PM	R101500
Carbon disulfide	ND	10		µg/L	1	11/30/2023 8:18:57 PM	R101500
Carbon Tetrachloride	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Chlorobenzene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Chloroethane	ND	2.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Chloroform	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311B83

Date Reported: 12/13/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated EFF

Project: Former Y Station State Lead Site

Collection Date: 11/22/2023 8:40:00 AM

Lab ID: 2311B83-003

Matrix: GROUNDWA

Received Date: 11/22/2023 12:36:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Chloromethane	ND	3.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
2-Chlorotoluene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
4-Chlorotoluene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
cis-1,2-DCE	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Dibromochloromethane	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Dibromomethane	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,1-Dichloroethane	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,1-Dichloroethene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,2-Dichloropropane	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,3-Dichloropropane	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
2,2-Dichloropropane	ND	2.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,1-Dichloropropene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Hexachlorobutadiene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
2-Hexanone	45	10		µg/L	1	11/30/2023 8:18:57 PM	R101500
Isopropylbenzene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
4-Isopropyltoluene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
4-Methyl-2-pentanone	12	10		µg/L	1	11/30/2023 8:18:57 PM	R101500
Methylene Chloride	ND	3.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
n-Butylbenzene	ND	3.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
n-Propylbenzene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
sec-Butylbenzene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Styrene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
tert-Butylbenzene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
trans-1,2-DCE	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311B83

Date Reported: 12/13/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated EFF

Project: Former Y Station State Lead Site

Collection Date: 11/22/2023 8:40:00 AM

Lab ID: 2311B83-003

Matrix: GROUNDWA

Received Date: 11/22/2023 12:36:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Trichlorofluoromethane	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Vinyl chloride	ND	1.0		µg/L	1	11/30/2023 8:18:57 PM	R101500
Xylenes, Total	19	1.5		µg/L	1	11/30/2023 8:18:57 PM	R101500
Surr: 1,2-Dichloroethane-d4	91.5	70-130		%Rec	1	11/30/2023 8:18:57 PM	R101500
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	11/30/2023 8:18:57 PM	R101500
Surr: Dibromofluoromethane	95.5	70-130		%Rec	1	11/30/2023 8:18:57 PM	R101500
Surr: Toluene-d8	98.6	70-130		%Rec	1	11/30/2023 8:18:57 PM	R101500

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311B83

Date Reported: 12/13/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY RAW

Project: Former Y Station State Lead Site

Collection Date: 11/22/2023 8:31:00 AM

Lab ID: 2311B83-004

Matrix: GROUNDWA

Received Date: 11/22/2023 12:36:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: RBC
Chloride	84	10		mg/L	20	11/22/2023 8:40:02 PM	R101403
Nitrogen, Nitrate (As N)	2.2	0.10		mg/L	1	11/22/2023 8:27:09 PM	R101403
Sulfate	45	10		mg/L	20	11/22/2023 8:40:02 PM	R101403
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	536	100	*D	mg/L	1	11/29/2023 3:56:00 PM	79014
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	15	1.9		µg/L	200	11/30/2023 8:30:20 AM	78984
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: PRD
Diesel Range Organics (DRO)	1.1	1.0		mg/L	1	11/29/2023 3:29:13 AM	78999
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/29/2023 3:29:13 AM	78999
Surr: DNOP	75.1	54.5-177		%Rec	1	11/29/2023 3:29:13 AM	78999
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	7.0	1.0		mg/L	20	11/28/2023 1:49:28 AM	GW1013
Surr: BFB	87.7	15-270		%Rec	20	11/28/2023 1:49:28 AM	GW1013
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	1200	20		µg/L	20	12/1/2023 10:56:51 AM	R101556
Toluene	840	20		µg/L	20	12/1/2023 10:56:51 AM	R101556
Ethylbenzene	58	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,2,4-Trimethylbenzene	67	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,3,5-Trimethylbenzene	35	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,2-Dichloroethane (EDC)	120	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,2-Dibromoethane (EDB)	18	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Naphthalene	24	4.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1-Methylnaphthalene	ND	8.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
2-Methylnaphthalene	8.8	8.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Acetone	78	20		µg/L	2	11/30/2023 8:47:01 PM	R101500
Bromobenzene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Bromodichloromethane	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Bromoform	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Bromomethane	ND	6.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
2-Butanone	60	20		µg/L	2	11/30/2023 8:47:01 PM	R101500
Carbon disulfide	ND	20		µg/L	2	11/30/2023 8:47:01 PM	R101500
Carbon Tetrachloride	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Chlorobenzene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Chloroethane	ND	4.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Chloroform	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311B83

Date Reported: 12/13/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY RAW

Project: Former Y Station State Lead Site

Collection Date: 11/22/2023 8:31:00 AM

Lab ID: 2311B83-004

Matrix: GROUNDWA

Received Date: 11/22/2023 12:36:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Chloromethane	ND	6.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
2-Chlorotoluene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
4-Chlorotoluene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
cis-1,2-DCE	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Dibromochloromethane	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Dibromomethane	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,2-Dichlorobenzene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,3-Dichlorobenzene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,4-Dichlorobenzene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Dichlorodifluoromethane	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,1-Dichloroethane	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,1-Dichloroethene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,2-Dichloropropane	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,3-Dichloropropane	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
2,2-Dichloropropane	ND	4.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,1-Dichloropropene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Hexachlorobutadiene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
2-Hexanone	72	20		µg/L	2	11/30/2023 8:47:01 PM	R101500
Isopropylbenzene	4.7	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
4-Isopropyltoluene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
4-Methyl-2-pentanone	20	20		µg/L	2	11/30/2023 8:47:01 PM	R101500
Methylene Chloride	ND	6.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
n-Butylbenzene	ND	6.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
n-Propylbenzene	5.8	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
sec-Butylbenzene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Styrene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
tert-Butylbenzene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
trans-1,2-DCE	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,1,1-Trichloroethane	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,1,2-Trichloroethane	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Trichloroethene (TCE)	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311B83

Date Reported: 12/13/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY RAW

Project: Former Y Station State Lead Site

Collection Date: 11/22/2023 8:31:00 AM

Lab ID: 2311B83-004

Matrix: GROUNDWA

Received Date: 11/22/2023 12:36:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Trichlorofluoromethane	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
1,2,3-Trichloropropane	ND	4.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Vinyl chloride	ND	2.0		µg/L	2	11/30/2023 8:47:01 PM	R101500
Xylenes, Total	560	30		µg/L	20	12/1/2023 10:56:51 AM	R101556
Surr: 1,2-Dichloroethane-d4	97.3	70-130		%Rec	2	11/30/2023 8:47:01 PM	R101500
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	2	11/30/2023 8:47:01 PM	R101500
Surr: Dibromofluoromethane	94.2	70-130		%Rec	2	11/30/2023 8:47:01 PM	R101500
Surr: Toluene-d8	101	70-130		%Rec	2	11/30/2023 8:47:01 PM	R101500

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311B83

Date Reported: 12/13/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y Station State Lead Site

Collection Date:

Lab ID: 2311B83-005

Matrix: TRIP BLANK

Received Date: 11/22/2023 12:36:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.0096		µg/L	1	11/29/2023 11:38:39 PM	78984
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Toluene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Ethylbenzene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Naphthalene	ND	2.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1-Methylnaphthalene	ND	4.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
2-Methylnaphthalene	ND	4.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Acetone	ND	10		µg/L	1	11/30/2023 9:15:09 PM	R101500
Bromobenzene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Bromodichloromethane	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Bromoform	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Bromomethane	ND	3.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
2-Butanone	ND	10		µg/L	1	11/30/2023 9:15:09 PM	R101500
Carbon disulfide	ND	10		µg/L	1	11/30/2023 9:15:09 PM	R101500
Carbon Tetrachloride	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Chlorobenzene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Chloroethane	ND	2.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Chloroform	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Chloromethane	ND	3.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
2-Chlorotoluene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
4-Chlorotoluene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
cis-1,2-DCE	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Dibromochloromethane	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Dibromomethane	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,1-Dichloroethane	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,1-Dichloroethene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,2-Dichloropropane	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311B83

Date Reported: 12/13/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y Station State Lead Site

Collection Date:

Lab ID: 2311B83-005

Matrix: TRIP BLANK

Received Date: 11/22/2023 12:36:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
1,3-Dichloropropane	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
2,2-Dichloropropane	ND	2.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,1-Dichloropropene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Hexachlorobutadiene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
2-Hexanone	ND	10		µg/L	1	11/30/2023 9:15:09 PM	R101500
Isopropylbenzene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
4-Isopropyltoluene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
4-Methyl-2-pentanone	ND	10		µg/L	1	11/30/2023 9:15:09 PM	R101500
Methylene Chloride	ND	3.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
n-Butylbenzene	ND	3.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
n-Propylbenzene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
sec-Butylbenzene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Styrene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
tert-Butylbenzene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
trans-1,2-DCE	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Trichlorofluoromethane	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Vinyl chloride	ND	1.0		µg/L	1	11/30/2023 9:15:09 PM	R101500
Xylenes, Total	ND	1.5		µg/L	1	11/30/2023 9:15:09 PM	R101500
Surr: 1,2-Dichloroethane-d4	87.8	70-130		%Rec	1	11/30/2023 9:15:09 PM	R101500
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	11/30/2023 9:15:09 PM	R101500
Surr: Dibromofluoromethane	97.1	70-130		%Rec	1	11/30/2023 9:15:09 PM	R101500
Surr: Toluene-d8	99.8	70-130		%Rec	1	11/30/2023 9:15:09 PM	R101500

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311B83

13-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R101403	RunNo: 101403								
Prep Date:	Analysis Date: 11/22/2023	SeqNo: 3730904 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R101403	RunNo: 101403								
Prep Date:	Analysis Date: 11/22/2023	SeqNo: 3730905 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	4.9	0.50	5.000	0	97.7	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			
Sulfate	9.9	0.50	10.00	0	98.7	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311B83

13-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-78984	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 78984	RunNo: 101482								
Prep Date: 11/29/2023	Analysis Date: 11/29/2023	SeqNo: 3735398	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-78984	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 78984	RunNo: 101482								
Prep Date: 11/29/2023	Analysis Date: 11/29/2023	SeqNo: 3735416	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	119	70	130			

Sample ID: LCSD-78984	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 78984	RunNo: 101482								
Prep Date: 11/29/2023	Analysis Date: 11/29/2023	SeqNo: 3735418	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.11	0.010	0.1000	0	112	70	130	5.75	20	

Sample ID: MB-78984	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 78984	RunNo: 101482								
Prep Date: 11/29/2023	Analysis Date: 11/29/2023	SeqNo: 3735487	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-78984	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 78984	RunNo: 101482								
Prep Date: 11/29/2023	Analysis Date: 11/29/2023	SeqNo: 3735489	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	122	70	130			

Sample ID: LCSD-78984	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 78984	RunNo: 101482								
Prep Date: 11/29/2023	Analysis Date: 11/29/2023	SeqNo: 3735491	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	119	70	130	2.18	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311B83

13-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-78999	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 78999	RunNo: 101453								
Prep Date: 11/27/2023	Analysis Date: 11/28/2023	SeqNo: 3733010	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.43		0.5000		85.2	54.5	177			

Sample ID: LCS-78999	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: LCSW	Batch ID: 78999	RunNo: 101453								
Prep Date: 11/27/2023	Analysis Date: 11/28/2023	SeqNo: 3733011	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.7	1.0	2.500	0	109	57	147			
Surr: DNOP	0.21		0.2500		82.6	54.5	177			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Above Quantitation Range/Estimated Value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of standard limits. If undiluted results may be estimated. | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311B83

13-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: GW101398		RunNo: 101398							
Prep Date:	Analysis Date: 11/27/2023		SeqNo: 3731756		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.43	0.050	0.5000	0	85.7	70	130			
Surr: BFB	37		20.00		185	15	270			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: GW101398		RunNo: 101398							
Prep Date:	Analysis Date: 11/27/2023		SeqNo: 3731757		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	17		20.00		86.6	15	270			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: GW101468		RunNo: 101468							
Prep Date:	Analysis Date: 11/29/2023		SeqNo: 3734453		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	94.3	70	130			
Surr: BFB	39		20.00		193	15	270			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: GW101468		RunNo: 101468							
Prep Date:	Analysis Date: 11/29/2023		SeqNo: 3734454		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		89.8	15	270			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311B83

13-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 100ng lcs	SampType: LCS		TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch ID: R101500		RunNo: 101500							
Prep Date:	Analysis Date: 11/30/2023		SeqNo: 3736777		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	86.4	70	130			
Toluene	19	1.0	20.00	0	95.8	70	130			
Chlorobenzene	20	1.0	20.00	0	98.4	70	130			
1,1-Dichloroethene	16	1.0	20.00	0	79.3	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	84.1	70	130			
Surr: 1,2-Dichloroethane-d4	8.6		10.00		85.9	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		109	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.2	70	130			
Surr: Toluene-d8	9.9		10.00		98.6	70	130			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R101500		RunNo: 101500							
Prep Date:	Analysis Date: 11/30/2023		SeqNo: 3736803		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311B83

13-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R101500	RunNo: 101500								
Prep Date:	Analysis Date: 11/30/2023	SeqNo: 3736803			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311B83

13-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R101500		RunNo: 101500							
Prep Date:	Analysis Date: 11/30/2023		SeqNo: 3736803		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.6		10.00		86.3	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		109	70	130			
Surr: Dibromofluoromethane	9.5		10.00		94.9	70	130			
Surr: Toluene-d8	10		10.00		99.9	70	130			

Sample ID: 100ng lcs	SampType: LCS		TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch ID: R101556		RunNo: 101556							
Prep Date:	Analysis Date: 12/1/2023		SeqNo: 3739129		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	86.5	70	130			
Toluene	19	1.0	20.00	0	93.0	70	130			
Surr: 1,2-Dichloroethane-d4	8.7		10.00		87.1	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.2	70	130			
Surr: Toluene-d8	9.6		10.00		95.8	70	130			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R101556		RunNo: 101556							
Prep Date:	Analysis Date: 12/1/2023		SeqNo: 3739137		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.0	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		105	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.6	70	130			
Surr: Toluene-d8	10		10.00		99.7	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311B83

13-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-79014	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 79014	RunNo: 101481								
Prep Date: 11/28/2023	Analysis Date: 11/29/2023	SeqNo: 3735071	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: LCS-79014	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 79014	RunNo: 101481								
Prep Date: 11/28/2023	Analysis Date: 11/29/2023	SeqNo: 3735072	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1070	50.0	1000	0	107	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Sample Log-In Check List

Client Name: **Daniel B. Stephens &** Work Order Number: **2311B83** RcptNo: **1**

Received By: **Tracy Casarrubias** 11/22/2023 12:36:00 PM

Completed By: **Cheyenne Cason** 11/22/2023 1:03:52 PM *CC*

Reviewed By: *JH 11-22-23*

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked 2
for pH: 2 (<2 or >12 unless noted)
Adjusted? NO
Checked by: JH 11/22/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____

By Whom: _____ Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

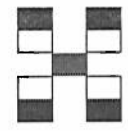
17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	7.4	Good	Not Present	Morty		

Chain-of-Custody Record

Client: **Daniel B Stephens & Associates**
 Mailing Address: **6020 Academy Rd NE, STE 100**
Albuquerque, NM 87109
 Phone #: **505-822-9400**
 email or Fax#: **gherrmann@geo-logic.com**
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush _____
 Project Name:
Former Y Station State Lead Site
 Project #:
DB18.1157
 Project Manager:
Grace Herrmann
 Sampler: **B. Constand**
 On Ice: Yes No *marky*
 # of Coolers: **1**
 Cooler Temp (including CF): **75 - 0.1 = 74.9**



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO and DRO - EPA method 8015B	Sulfate/Chloride - EPA method 200.7	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
11/21/23	14:58	Air	FY OX EFF	1-1L Tedlar	N/A	001							X	X
	15:08		FY COMB INF			002							X	X
11/22/23	8:40	GW	FY TREATED EFF	Varies	Varies	003	X	X	X	X	X	X		
	8:31		FY RAW			004	X	X	X	X	X	X		
			Trip Blank			005								

Date: 11/22/23 Time: 12:34 Relinquished by: *[Signature]* Received by: *[Signature]* Via: CDU Date: 11/22/23 Time: 12:30
 Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

December 19, 2023

Grace Herrmann

Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL: (505) 822-9400
FAX: (505) 822-8877

RE: Former Y Station State Lead Site

OrderNo.: 2311D16

Dear Grace Herrmann:

Eurofins Environment Testing South Central, LLC received 6 sample(s) on 11/28/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311D16

Date Reported: 12/19/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated Eff

Project: Former Y Station State Lead Site

Collection Date: 11/28/2023 12:51:00 PM

Lab ID: 2311D16-001

Matrix: AQUEOUS

Received Date: 11/28/2023 4:56:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: RBC
Chloride	85	10		mg/L	20	11/29/2023 3:55:59 PM	R101494
Nitrogen, Nitrate (As N)	1.5	0.10		mg/L	1	11/29/2023 3:43:07 PM	R101494
Sulfate	47	10		mg/L	20	11/29/2023 3:55:59 PM	R101494
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	556	100	*D	mg/L	1	11/30/2023 6:05:00 PM	79063
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	0.46	0.050		mg/L	1	12/4/2023 4:04:00 PM	G101584
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	12/4/2023 4:04:00 PM	G101584
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	5.4	0.47		µg/L	50	12/5/2023 9:55:57 PM	79138
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: PRD
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/2/2023 1:44:38 PM	79076
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/2/2023 1:44:38 PM	79076
Surr: DNOP	87.5	54.5-177		%Rec	1	12/2/2023 1:44:38 PM	79076
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	58	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Toluene	29	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Ethylbenzene	1.3	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,2,4-Trimethylbenzene	2.7	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,3,5-Trimethylbenzene	1.3	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,2-Dichloroethane (EDC)	25	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,2-Dibromoethane (EDB)	5.1	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Naphthalene	8.0	2.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1-Methylnaphthalene	ND	4.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
2-Methylnaphthalene	ND	4.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Acetone	71	10		µg/L	1	12/4/2023 4:04:00 PM	R101584
Bromobenzene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Bromodichloromethane	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Bromoform	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Bromomethane	ND	3.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
2-Butanone	45	10		µg/L	1	12/4/2023 4:04:00 PM	R101584
Carbon disulfide	ND	40		µg/L	1	12/4/2023 4:04:00 PM	R101584
Carbon Tetrachloride	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Chlorobenzene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Chloroethane	ND	2.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Chloroform	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311D16

Date Reported: 12/19/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated Eff

Project: Former Y Station State Lead Site

Collection Date: 11/28/2023 12:51:00 PM

Lab ID: 2311D16-001

Matrix: AQUEOUS

Received Date: 11/28/2023 4:56:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Chloromethane	ND	3.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
2-Chlorotoluene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
4-Chlorotoluene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
cis-1,2-DCE	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Dibromochloromethane	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Dibromomethane	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,1-Dichloroethane	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,1-Dichloroethene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,2-Dichloropropane	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,3-Dichloropropane	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
2,2-Dichloropropane	ND	2.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,1-Dichloropropene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Hexachlorobutadiene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
2-Hexanone	60	10		µg/L	1	12/4/2023 4:04:00 PM	R101584
Isopropylbenzene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
4-Isopropyltoluene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
4-Methyl-2-pentanone	13	10		µg/L	1	12/4/2023 4:04:00 PM	R101584
Methylene Chloride	ND	3.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
n-Butylbenzene	ND	3.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
n-Propylbenzene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
sec-Butylbenzene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Styrene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
tert-Butylbenzene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
trans-1,2-DCE	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311D16

Date Reported: 12/19/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated Eff

Project: Former Y Station State Lead Site

Collection Date: 11/28/2023 12:51:00 PM

Lab ID: 2311D16-001

Matrix: AQUEOUS

Received Date: 11/28/2023 4:56:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Vinyl chloride	ND	1.0		µg/L	1	12/4/2023 4:04:00 PM	R101584
Xylenes, Total	20	1.5		µg/L	1	12/4/2023 4:04:00 PM	R101584
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%Rec	1	12/4/2023 4:04:00 PM	R101584
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/4/2023 4:04:00 PM	R101584
Surr: Dibromofluoromethane	100	70-130		%Rec	1	12/4/2023 4:04:00 PM	R101584
Surr: Toluene-d8	93.9	70-130		%Rec	1	12/4/2023 4:04:00 PM	R101584

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311D16

Date Reported: 12/19/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y Station State Lead Site

Collection Date: 11/28/2023 12:25:00 PM

Lab ID: 2311D16-002

Matrix: AQUEOUS

Received Date: 11/28/2023 4:56:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: RBC
Chloride	85	10		mg/L	20	11/29/2023 4:21:43 PM	R101494
Nitrogen, Nitrate (As N)	1.6	0.10		mg/L	1	11/29/2023 4:08:51 PM	R101494
Sulfate	45	10		mg/L	20	11/29/2023 4:21:43 PM	R101494
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	544	100	*D	mg/L	1	11/30/2023 6:05:00 PM	79063
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	8.2	1.0		mg/L	20	12/4/2023 5:17:00 PM	G101584
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	20	12/4/2023 5:17:00 PM	G101584
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	22	1.8		µg/L	200	12/5/2023 10:29:28 PM	79138
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: PRD
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/2/2023 2:08:07 PM	79076
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/2/2023 2:08:07 PM	79076
Surr: DNOP	91.3	54.5-177		%Rec	1	12/2/2023 2:08:07 PM	79076
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	2000	200		µg/L	200	12/5/2023 3:50:00 PM	B101602
Toluene	950	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
Ethylbenzene	58	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,2,4-Trimethylbenzene	95	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,3,5-Trimethylbenzene	36	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,2-Dichloroethane (EDC)	230	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,2-Dibromoethane (EDB)	21	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
Naphthalene	ND	40		µg/L	20	12/4/2023 5:17:00 PM	R101584
1-Methylnaphthalene	ND	80		µg/L	20	12/4/2023 5:17:00 PM	R101584
2-Methylnaphthalene	ND	80		µg/L	20	12/4/2023 5:17:00 PM	R101584
Acetone	ND	200		µg/L	20	12/4/2023 5:17:00 PM	R101584
Bromobenzene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
Bromodichloromethane	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
Bromoform	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
Bromomethane	ND	60		µg/L	20	12/4/2023 5:17:00 PM	R101584
2-Butanone	ND	200		µg/L	20	12/4/2023 5:17:00 PM	R101584
Carbon disulfide	ND	600		µg/L	20	12/4/2023 5:17:00 PM	R101584
Carbon Tetrachloride	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
Chlorobenzene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
Chloroethane	ND	40		µg/L	20	12/4/2023 5:17:00 PM	R101584
Chloroform	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311D16

Date Reported: 12/19/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y Station State Lead Site

Collection Date: 11/28/2023 12:25:00 PM

Lab ID: 2311D16-002

Matrix: AQUEOUS

Received Date: 11/28/2023 4:56:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Chloromethane	ND	60		µg/L	20	12/4/2023 5:17:00 PM	R101584
2-Chlorotoluene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
4-Chlorotoluene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
cis-1,2-DCE	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
cis-1,3-Dichloropropene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	12/4/2023 5:17:00 PM	R101584
Dibromochloromethane	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
Dibromomethane	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,2-Dichlorobenzene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,3-Dichlorobenzene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,4-Dichlorobenzene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
Dichlorodifluoromethane	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,1-Dichloroethane	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,1-Dichloroethene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,2-Dichloropropane	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,3-Dichloropropane	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
2,2-Dichloropropane	ND	40		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,1-Dichloropropene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
Hexachlorobutadiene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
2-Hexanone	ND	200		µg/L	20	12/4/2023 5:17:00 PM	R101584
Isopropylbenzene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
4-Isopropyltoluene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
4-Methyl-2-pentanone	ND	200		µg/L	20	12/4/2023 5:17:00 PM	R101584
Methylene Chloride	ND	60		µg/L	20	12/4/2023 5:17:00 PM	R101584
n-Butylbenzene	ND	60		µg/L	20	12/4/2023 5:17:00 PM	R101584
n-Propylbenzene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
sec-Butylbenzene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
Styrene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
tert-Butylbenzene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	12/4/2023 5:17:00 PM	R101584
Tetrachloroethene (PCE)	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
trans-1,2-DCE	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
trans-1,3-Dichloropropene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,2,3-Trichlorobenzene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,2,4-Trichlorobenzene	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,1,1-Trichloroethane	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,1,2-Trichloroethane	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
Trichloroethene (TCE)	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311D16

Date Reported: 12/19/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y Station State Lead Site

Collection Date: 11/28/2023 12:25:00 PM

Lab ID: 2311D16-002

Matrix: AQUEOUS

Received Date: 11/28/2023 4:56:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Trichlorofluoromethane	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
1,2,3-Trichloropropane	ND	40		µg/L	20	12/4/2023 5:17:00 PM	R101584
Vinyl chloride	ND	20		µg/L	20	12/4/2023 5:17:00 PM	R101584
Xylenes, Total	620	30		µg/L	20	12/4/2023 5:17:00 PM	R101584
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	20	12/4/2023 5:17:00 PM	R101584
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	20	12/4/2023 5:17:00 PM	R101584
Surr: Dibromofluoromethane	101	70-130		%Rec	20	12/4/2023 5:17:00 PM	R101584
Surr: Toluene-d8	95.3	70-130		%Rec	20	12/4/2023 5:17:00 PM	R101584

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311D16

Date Reported: 12/19/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Ox Eff

Project: Former Y Station State Lead Site

Collection Date: 11/28/2023 1:10:00 PM

Lab ID: 2311D16-003

Matrix: AIR

Received Date: 11/28/2023 4:56:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	220	25		µg/L	5	12/1/2023 3:09:49 PM	GW1015
Surr: BFB	107	15-412		%Rec	5	12/1/2023 3:09:49 PM	GW1015
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	1.2		µg/L	5	12/1/2023 3:09:49 PM	BW1015
Benzene	17	0.50		µg/L	5	12/1/2023 3:09:49 PM	BW1015
Toluene	20	0.50		µg/L	5	12/1/2023 3:09:49 PM	BW1015
Ethylbenzene	2.8	0.50		µg/L	5	12/1/2023 3:09:49 PM	BW1015
Xylenes, Total	17	1.0		µg/L	5	12/1/2023 3:09:49 PM	BW1015
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	5	12/1/2023 3:09:49 PM	BW1015

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311D16

Date Reported: 12/19/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Comb Inf

Project: Former Y Station State Lead Site

Collection Date: 11/28/2023 1:10:00 PM

Lab ID: 2311D16-004

Matrix: AIR

Received Date: 11/28/2023 4:56:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	9800	500		µg/L	100	12/1/2023 4:20:17 PM	GW1015
Surr: BFB	105	15-412		%Rec	100	12/1/2023 4:20:17 PM	GW1015
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	100	12/1/2023 4:20:17 PM	BW1015
Benzene	170	10		µg/L	100	12/1/2023 4:20:17 PM	BW1015
Toluene	450	10		µg/L	100	12/1/2023 4:20:17 PM	BW1015
Ethylbenzene	37	10		µg/L	100	12/1/2023 4:20:17 PM	BW1015
Xylenes, Total	220	20		µg/L	100	12/1/2023 4:20:17 PM	BW1015
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	100	12/1/2023 4:20:17 PM	BW1015

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311D16

Date Reported: 12/19/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: DTA Eff

Project: Former Y Station State Lead Site

Collection Date: 11/28/2023 1:10:00 PM

Lab ID: 2311D16-005

Matrix: AIR

Received Date: 11/28/2023 4:56:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	160	5.0		µg/L	1	12/1/2023 4:43:40 PM	GW1015
Surr: BFB	141	15-412		%Rec	1	12/1/2023 4:43:40 PM	GW1015
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	12/1/2023 4:43:40 PM	BW1015
Benzene	16	0.50		µg/L	5	12/5/2023 2:35:46 PM	BW1015
Toluene	15	0.50		µg/L	5	12/5/2023 2:35:46 PM	BW1015
Ethylbenzene	1.6	0.10		µg/L	1	12/1/2023 4:43:40 PM	BW1015
Xylenes, Total	17	0.20		µg/L	1	12/1/2023 4:43:40 PM	BW1015
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/1/2023 4:43:40 PM	BW1015

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311D16

Date Reported: 12/19/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y Station State Lead Site

Collection Date:

Lab ID: 2311D16-006

Matrix: TRIP BLANK

Received Date: 11/28/2023 4:56:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	ND	0.0095		µg/L	1	12/5/2023 10:46:11 PM	79138
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Toluene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Ethylbenzene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Naphthalene	ND	2.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1-Methylnaphthalene	ND	4.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
2-Methylnaphthalene	ND	4.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Acetone	ND	10		µg/L	1	12/4/2023 6:54:00 PM	R101584
Bromobenzene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Bromodichloromethane	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Bromoform	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Bromomethane	ND	3.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
2-Butanone	ND	10		µg/L	1	12/4/2023 6:54:00 PM	R101584
Carbon disulfide	ND	30		µg/L	1	12/4/2023 6:54:00 PM	R101584
Carbon Tetrachloride	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Chlorobenzene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Chloroethane	ND	2.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Chloroform	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Chloromethane	ND	3.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
2-Chlorotoluene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
4-Chlorotoluene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
cis-1,2-DCE	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Dibromochloromethane	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Dibromomethane	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,1-Dichloroethane	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,1-Dichloroethene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,2-Dichloropropane	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2311D16

Date Reported: 12/19/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y Station State Lead Site

Collection Date:

Lab ID: 2311D16-006

Matrix: TRIP BLANK

Received Date: 11/28/2023 4:56:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
2,2-Dichloropropane	ND	2.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,1-Dichloropropene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Hexachlorobutadiene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
2-Hexanone	ND	10		µg/L	1	12/4/2023 6:54:00 PM	R101584
Isopropylbenzene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
4-Isopropyltoluene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
4-Methyl-2-pentanone	ND	10		µg/L	1	12/4/2023 6:54:00 PM	R101584
Methylene Chloride	ND	3.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
n-Butylbenzene	ND	3.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
n-Propylbenzene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
sec-Butylbenzene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Styrene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
tert-Butylbenzene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
trans-1,2-DCE	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Trichlorofluoromethane	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Vinyl chloride	ND	1.0		µg/L	1	12/4/2023 6:54:00 PM	R101584
Xylenes, Total	ND	1.5		µg/L	1	12/4/2023 6:54:00 PM	R101584
Surr: 1,2-Dichloroethane-d4	98.8	70-130		%Rec	1	12/4/2023 6:54:00 PM	R101584
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	12/4/2023 6:54:00 PM	R101584
Surr: Dibromofluoromethane	99.5	70-130		%Rec	1	12/4/2023 6:54:00 PM	R101584
Surr: Toluene-d8	94.7	70-130		%Rec	1	12/4/2023 6:54:00 PM	R101584

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311D16

19-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBW	Batch ID: R101494	RunNo: 101494
Prep Date:	Analysis Date: 11/29/2023	SeqNo: 3735910 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSW	Batch ID: R101494	RunNo: 101494
Prep Date:	Analysis Date: 11/29/2023	SeqNo: 3735911 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.2	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.1	90	110			
Sulfate	9.7	0.50	10.00	0	97.0	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Above Quantitation Range/Estimated Value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of standard limits. If undiluted results may be estimated. | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311D16

19-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-79138	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 79138	RunNo: 101607								
Prep Date: 12/5/2023	Analysis Date: 12/5/2023	SeqNo: 3743378	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-79138	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 79138	RunNo: 101607								
Prep Date: 12/5/2023	Analysis Date: 12/5/2023	SeqNo: 3743379	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	116	70	130			

Sample ID: LCSD-79138	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 79138	RunNo: 101607								
Prep Date: 12/5/2023	Analysis Date: 12/5/2023	SeqNo: 3743380	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	124	70	130	6.57	20	

Sample ID: MB-79138	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 79138	RunNo: 101607								
Prep Date: 12/5/2023	Analysis Date: 12/5/2023	SeqNo: 3743398	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-79138	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 79138	RunNo: 101607								
Prep Date: 12/5/2023	Analysis Date: 12/5/2023	SeqNo: 3743399	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	117	70	130			

Sample ID: LCSD-79138	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 79138	RunNo: 101607								
Prep Date: 12/5/2023	Analysis Date: 12/5/2023	SeqNo: 3743400	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.13	0.010	0.1000	0	128	70	130	8.48	20	

Qualifiers:

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311D16

19-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-79076	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 79076	RunNo: 101555								
Prep Date: 11/30/2023	Analysis Date: 12/2/2023	SeqNo: 3739086	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.46		0.5000		91.3	54.5	177			

Sample ID: LCS-79076	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: LCSW	Batch ID: 79076	RunNo: 101555								
Prep Date: 11/30/2023	Analysis Date: 12/2/2023	SeqNo: 3739087	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	1.4	1.0	2.500	0	57.5	57	147			
Surr: DNOP	0.14		0.2500		56.7	54.5	177			

Sample ID: 2311D16-002CMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: FY Raw	Batch ID: 79076	RunNo: 101555								
Prep Date: 11/30/2023	Analysis Date: 12/2/2023	SeqNo: 3739100	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.4	1.0	2.500	0.6786	66.9	47.3	147			
Surr: DNOP	0.17		0.2500		69.9	54.5	177			

Sample ID: 2311D16-002CMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: FY Raw	Batch ID: 79076	RunNo: 101555								
Prep Date: 11/30/2023	Analysis Date: 12/2/2023	SeqNo: 3739101	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.3	1.0	2.500	0.6786	65.7	47.3	147	1.35	20	
Surr: DNOP	0.17		0.2500		67.4	54.5	177	0	0	

Qualifiers:

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- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311D16

19-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 2311d16-003adup	SampType: DUP	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: FY Ox Eff	Batch ID: GW101533	RunNo: 101533								
Prep Date:	Analysis Date: 12/1/2023	SeqNo: 3739811			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	210	25						3.48	20	
Surr: BFB	10000		10000		103	15	412	0	0	

Qualifiers:

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- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311D16

19-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 2311d16-003adup	SampType: DUP	TestCode: EPA Method 8021B: Volatiles								
Client ID: FY Ox Eff	Batch ID: BW101533	RunNo: 101533								
Prep Date:	Analysis Date: 12/1/2023	SeqNo: 3739837			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	1.2						0	20	
Benzene	16	0.50						2.74	20	
Toluene	19	0.50						3.68	20	
Ethylbenzene	2.7	0.50						4.29	20	
Xylenes, Total	17	1.0						0.300	20	
Surr: 4-Bromofluorobenzene	9.5		10.00		95.3	70	130	0	0	

Qualifiers:

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311D16

19-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 100ng lcs 2	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: R101584	RunNo: 101584								
Prep Date:	Analysis Date: 12/4/2023	SeqNo: 3740866	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.3	70	130			
Toluene	18	1.0	20.00	0	88.1	70	130			
Chlorobenzene	18	1.0	20.00	0	90.3	70	130			
1,1-Dichloroethene	17	1.0	20.00	0	85.7	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	85.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.6	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.3	70	130			
Surr: Toluene-d8	9.5		10.00		95.3	70	130			

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R101584	RunNo: 101584								
Prep Date:	Analysis Date: 12/4/2023	SeqNo: 3740869	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	40								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311D16

19-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

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- ND Not Detected at the Reporting Limit
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- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311D16

19-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R101584	RunNo: 101584								
Prep Date:	Analysis Date: 12/4/2023	SeqNo: 3740869			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.6	70	130			
Surr: Toluene-d8	9.6		10.00		95.9	70	130			

Sample ID: 2311D16-001ams	SampType: MS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: FY Treated Eff	Batch ID: R101584	RunNo: 101584								
Prep Date:	Analysis Date: 12/4/2023	SeqNo: 3741080			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	81	1.0	20.00	58.14	113	70	130			
Toluene	50	1.0	20.00	28.73	105	70	130			
Chlorobenzene	20	1.0	20.00	0	98.3	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	101	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0.7680	96.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.6	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.1	70	130			
Surr: Toluene-d8	9.5		10.00		94.9	70	130			

Sample ID: 2311D16-001amsd	SampType: MSD	TestCode: EPA Method 8260B: VOLATILES								
Client ID: FY Treated Eff	Batch ID: R101584	RunNo: 101584								
Prep Date:	Analysis Date: 12/4/2023	SeqNo: 3741081			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	81	1.0	20.00	58.14	116	70	130	0.692	20	
Toluene	48	1.0	20.00	28.73	96.5	70	130	3.43	20	
Chlorobenzene	19	1.0	20.00	0	96.0	70	130	2.33	20	
1,1-Dichloroethene	19	1.0	20.00	0	95.4	70	130	5.25	20	
Trichloroethene (TCE)	20	1.0	20.00	0.7680	95.1	70	130	1.33	20	
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		102	70	130	0	0	
Surr: Toluene-d8	9.4		10.00		93.9	70	130	0	0	

Qualifiers:

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- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311D16

19-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 100ng lcs 3	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: B101602	RunNo: 101602								
Prep Date:	Analysis Date: 12/5/2023	SeqNo: 3743051	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.8	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.4		10.00		94.0	70	130			

Sample ID: mb 3	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: B101602	RunNo: 101602								
Prep Date:	Analysis Date: 12/5/2023	SeqNo: 3743052	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.6	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	9.3		10.00		92.8	70	130			

Qualifiers:

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- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311D16

19-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: G101584		RunNo: 101584							
Prep Date:	Analysis Date: 12/4/2023		SeqNo: 3741095		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.42	0.050	0.5000	0	83.6	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.2	70	130			

Sample ID: 2311D16-002ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: FY Raw	Batch ID: G101584		RunNo: 101584							
Prep Date:	Analysis Date: 12/4/2023		SeqNo: 3741098		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	1.0	10.00	8.160	88.4	49.5	136			
Surr: 4-Bromofluorobenzene	200		200.0		99.2	70	130			

Sample ID: 2311D16-002amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: FY Raw	Batch ID: G101584		RunNo: 101584							
Prep Date:	Analysis Date: 12/4/2023		SeqNo: 3741099		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	1.0	10.00	8.160	82.8	49.5	136	3.35	20	
Surr: 4-Bromofluorobenzene	200		200.0		99.4	70	130	0	0	

Sample ID: MB	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: G101584		RunNo: 101584							
Prep Date:	Analysis Date: 12/4/2023		SeqNo: 3741113		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: 4-Bromofluorobenzene	9.6		10.00		96.3	70	130			

Qualifiers:

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- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311D16

19-Dec-23

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-79063	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 79063	RunNo: 101508								
Prep Date: 11/29/2023	Analysis Date: 11/30/2023	SeqNo: 3736457	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: LCS-79063	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 79063	RunNo: 101508								
Prep Date: 11/29/2023	Analysis Date: 11/30/2023	SeqNo: 3736458	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1070	50.0	1000	0	107	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Sample Log-In Check List

Client Name: Daniel B. Stephens &

Work Order Number: 2311D16

RcptNo: 1

Received By: *Nick Lawman*

11/28/2023 4:56:00 PM

Nick Lawman

Completed By: Cheyenne Cason

11/29/2023 8:17:07 AM

Cason

Reviewed By: *SCM 11/29/23*

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present

2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes No NA

4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA

5. Sample(s) in proper container(s)? Yes No

6. Sufficient sample volume for indicated test(s)? Yes No

7. Are samples (except VOA and ONG) properly preserved? Yes No

8. Was preservative added to bottles? Yes No NA

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA

10. Were any sample containers received broken? Yes No

11. Does paperwork match bottle labels? Yes No

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes No

13. Is it clear what analyses were requested? Yes No

14. Were all holding times able to be met? Yes No

(If no, notify customer for authorization.)

of preserved bottles checked: 2
for pH: (2 or >12 unless noted)
Adjusted? NO
Checked by: JM 11/29/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
By Whom: _____ Via: eMail Phone Fax In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

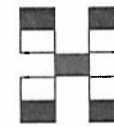
17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	9.0	Good	Not Present	Morty		
2	NA	Good	Not Present	NA		

Chain-of-Custody Record

Client: **Daniel B Stephens & Associates**
 Mailing Address: **6020 Academy Rd NE, STE 100**
Albuquerque, NM 87109
 Phone #: **505-822-9400**
 email or Fax#: **gherrmann@geo-logic.com**
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type)

Turn-Around Time:
 Standard Rush
 Project Name:
Former Y Station State Lead Site
 Project #:
DB18.1157
 Project Manager:
Grace Herrmann
 Sampler: **Alex Nunez-Thompson** *Marty*
 On Ice: Yes No
 # of Coolers: **2**
 Cooler Temp (including CF): **9.1 - 0.1 = 9.0**



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO and DRO - EPA method 8015B	Sulfate/Chloride - EPA method 200.7	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
						2311D16								
11/28	12:51	H ₂ O	FY Treated Eff	7-40mL; 2-plastic; 1-amber	HCl, ThiO, H ₂ SO ₄	001	X	X	X	X	X	X		
11/28	12:25	H ₂ O	FY Raw	7-40mL; 2-plastic; 1-amber	HCl, ThiO, H ₂ SO ₄	002	X	X	X	X	X	X		
11/28	13:10	Air	FY Ox Eff	Tedlar Bag	N/A	003							X	X
11/28	13:10	Air	FY Comb Int	Tedlar Bag	N/A	002 004							X	X
11/28	13:10	Air	DTA Eff	Tedlar Bag	N/A	003 005							X	X
			TRIP Blank per sample			-004 5 6 7/11/29/23								

Date: 11/28/23 Time: 4:56 Relinquished by: Alex Nunez-Thompson
 Received by: [Signature] Via: CDO Date: 11/28/23 Time: 1056
 Relinquished by: [Signature] Received by: [Signature] Via: CDO Date: 11/28/23 Time: 1056

Remarks: Second cooler was tedlar bags.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

December 27, 2023

Grace Herrmann

Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL: (505) 822-9400
FAX: (505) 822-8877

RE: Former Y

OrderNo.: 2312915

Dear Grace Herrmann:

Eurofins Environment Testing South Central, LLC received 2 sample(s) on 12/15/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312915

Date Reported: 12/27/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Ox Eff

Project: Former Y

Collection Date: 12/12/2023 10:12:00 AM

Lab ID: 2312915-001

Matrix: AIR

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	55	5.0		µg/L	1	12/18/2023 5:29:46 PM	GW1019
Surr: BFB	97.2	15-412		%Rec	1	12/18/2023 5:29:46 PM	GW1019
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	12/18/2023 5:29:46 PM	BW1019
Benzene	8.3	0.10		µg/L	1	12/18/2023 5:29:46 PM	BW1019
Toluene	5.0	0.10		µg/L	1	12/18/2023 5:29:46 PM	BW1019
Ethylbenzene	0.36	0.10		µg/L	1	12/18/2023 5:29:46 PM	BW1019
Xylenes, Total	1.2	0.20		µg/L	1	12/18/2023 5:29:46 PM	BW1019
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	12/18/2023 5:29:46 PM	BW1019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312915

Date Reported: 12/27/2023

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Comb Inf

Project: Former Y

Collection Date: 12/12/2023 10:25:00 AM

Lab ID: 2312915-002

Matrix: AIR

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	7800	500		µg/L	100	12/18/2023 3:54:21 PM	GW1019
Surr: BFB	106	15-412		%Rec	100	12/18/2023 3:54:21 PM	GW1019
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	100	12/18/2023 3:54:21 PM	BW1019
Benzene	130	10		µg/L	100	12/18/2023 3:54:21 PM	BW1019
Toluene	320	10		µg/L	100	12/18/2023 3:54:21 PM	BW1019
Ethylbenzene	23	10		µg/L	100	12/18/2023 3:54:21 PM	BW1019
Xylenes, Total	120	20		µg/L	100	12/18/2023 3:54:21 PM	BW1019
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	100	12/18/2023 3:54:21 PM	BW1019

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Sample Log-In Check List

Client Name: Daniel B. Stephens & Work Order Number: 2312915 RcptNo: 1
 Received By: Nancy Proctor 12/15/2023 9:26:00 AM
 Completed By: Cheyenne Cason 12/15/2023 9:50:58 AM *CC*
 Reviewed By: *2012/15/23*

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes No NA
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 5. Sample(s) in proper container(s)? Yes No
 6. Sufficient sample volume for indicated test(s)? Yes No
 7. Are samples (except VOA and ONG) properly preserved? Yes No
 8. Was preservative added to bottles? Yes No NA
 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
 10. Were any sample containers received broken? Yes No
 11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 12. Are matrices correctly identified on Chain of Custody? Yes No
 13. Is it clear what analyses were requested? Yes No
 14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: *[Signature]* 12/15/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	NA	Good	Not Present	NA		

Chain-of-Custody Record

Client: Daniel B. Stephens

Mailing Address: 6020 Academy Rd NE, Ste 100
Albuquerque, NM 87109

Phone #: 505-822-9400

email or Fax#: gherrmann@gem-logic.com

QA/QC Package:
 Standard Level 4 (Full Validation)

Turn-Around Time:
 Standard Rush

Project Name: Former Y

Project #: DB18.1157

Project Manager: Grace Herrmann

Accreditation: Az Compliance
 NELAC Other
 EDD (Type) _____

Sampler: I Torres
On Ice: Yes No
of Coolers: _____

Cooler Temp (including CF): np (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
12/12	10:12	Air	FY Ox Eff	Tedlar Bag	N/A	2312915 001
12/12	10:25	Air	FY Comb Inf	Tedlar Bag	N/A	ix2
		Pen Sample	Bottle			7/12/15/23



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
									X
									X

12/15/23 9:26 Relinquished by: [Signature] Received by: CD0 Date: 12/15/23 Time: 9:26

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

January 05, 2024

Grace Herrmann

Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL: (505) 822-9400
FAX: (505) 822-8877

RE: Former Y Station State Lead Site

OrderNo.: 2312912

Dear Grace Herrmann:

Eurofins Environment Testing South Central, LLC received 3 sample(s) on 12/15/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312912

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated Eff

Project: Former Y Station State Lead Site

Collection Date: 12/14/2023 12:40:00 PM

Lab ID: 2312912-001

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	80	10		mg/L	20	12/15/2023 9:01:47 PM	R101875
Nitrogen, Nitrate (As N)	0.71	0.10		mg/L	1	12/15/2023 8:48:56 PM	R101875
Sulfate	43	10		mg/L	20	12/15/2023 9:01:47 PM	R101875
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	528	100	*D	mg/L	1	12/22/2023 11:46:00 AM	79519
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	3.5	0.47		µg/L	50	12/20/2023 2:25:36 PM	79463
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: PRD
Diesel Range Organics (DRO)	1.2	1.0		mg/L	1	12/18/2023 10:43:46 PM	79449
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/18/2023 10:43:46 PM	79449
Surr: DNOP	105	54.5-177		%Rec	1	12/18/2023 10:43:46 PM	79449
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	0.24	0.050		mg/L	1	12/15/2023 11:30:10 PM	GA10186
Surr: BFB	105	15-270		%Rec	1	12/15/2023 11:30:10 PM	GA10186
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	21	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Toluene	15	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Ethylbenzene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,2,4-Trimethylbenzene	1.2	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,2-Dichloroethane (EDC)	19	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,2-Dibromoethane (EDB)	4.4	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Naphthalene	4.9	2.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1-Methylnaphthalene	ND	4.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
2-Methylnaphthalene	ND	4.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Acetone	29	10		µg/L	1	12/27/2023 5:24:22 PM	R102095
Bromobenzene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Bromodichloromethane	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Bromoform	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Bromomethane	ND	3.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
2-Butanone	38	10		µg/L	1	12/27/2023 5:24:22 PM	R102095
Carbon disulfide	ND	10		µg/L	1	12/27/2023 5:24:22 PM	R102095
Carbon Tetrachloride	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Chlorobenzene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Chloroethane	ND	2.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Chloroform	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312912

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated Eff

Project: Former Y Station State Lead Site

Collection Date: 12/14/2023 12:40:00 PM

Lab ID: 2312912-001

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Chloromethane	ND	3.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
2-Chlorotoluene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
4-Chlorotoluene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
cis-1,2-DCE	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Dibromochloromethane	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Dibromomethane	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,1-Dichloroethane	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,1-Dichloroethene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,2-Dichloropropane	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,3-Dichloropropane	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
2,2-Dichloropropane	ND	2.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,1-Dichloropropene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Hexachlorobutadiene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
2-Hexanone	28	10		µg/L	1	12/27/2023 5:24:22 PM	R102095
Isopropylbenzene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
4-Isopropyltoluene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
4-Methyl-2-pentanone	ND	10		µg/L	1	12/27/2023 5:24:22 PM	R102095
Methylene Chloride	ND	3.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
n-Butylbenzene	ND	3.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
n-Propylbenzene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
sec-Butylbenzene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Styrene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
tert-Butylbenzene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
trans-1,2-DCE	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312912

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated Eff

Project: Former Y Station State Lead Site

Collection Date: 12/14/2023 12:40:00 PM

Lab ID: 2312912-001

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Trichlorofluoromethane	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Vinyl chloride	ND	1.0		µg/L	1	12/27/2023 5:24:22 PM	R102095
Xylenes, Total	11	1.5		µg/L	1	12/27/2023 5:24:22 PM	R102095
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	12/27/2023 5:24:22 PM	R102095
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	12/27/2023 5:24:22 PM	R102095
Surr: Dibromofluoromethane	90.3	70-130		%Rec	1	12/27/2023 5:24:22 PM	R102095
Surr: Toluene-d8	104	70-130		%Rec	1	12/27/2023 5:24:22 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312912

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY RAW

Project: Former Y Station State Lead Site

Collection Date: 12/14/2023 12:50:00 PM

Lab ID: 2312912-002

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	92	10		mg/L	20	12/15/2023 9:27:30 PM	R101875
Nitrogen, Nitrate (As N)	0.59	0.50		mg/L	5	12/15/2023 9:14:39 PM	R101875
Sulfate	48	2.5		mg/L	5	12/15/2023 9:14:39 PM	R101875
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	630	100	*D	mg/L	1	12/22/2023 11:46:00 AM	79519
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	15	1.9		µg/L	200	12/20/2023 2:42:30 PM	79463
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: PRD
Diesel Range Organics (DRO)	2.5	1.0		mg/L	1	12/18/2023 11:07:33 PM	79449
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/18/2023 11:07:33 PM	79449
Surr: DNOP	105	54.5-177		%Rec	1	12/18/2023 11:07:33 PM	79449
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	11	1.0		mg/L	20	12/15/2023 11:54:22 PM	GA10186
Surr: BFB	97.2	15-270		%Rec	20	12/15/2023 11:54:22 PM	GA10186
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	1700	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
Toluene	1700	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
Ethylbenzene	110	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,2,4-Trimethylbenzene	150	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,3,5-Trimethylbenzene	60	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,2-Dichloroethane (EDC)	210	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,2-Dibromoethane (EDB)	42	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
Naphthalene	46	40		µg/L	20	12/27/2023 6:46:12 PM	R102095
1-Methylnaphthalene	ND	80		µg/L	20	12/27/2023 6:46:12 PM	R102095
2-Methylnaphthalene	ND	80		µg/L	20	12/27/2023 6:46:12 PM	R102095
Acetone	ND	200		µg/L	20	12/27/2023 6:46:12 PM	R102095
Bromobenzene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
Bromodichloromethane	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
Bromoform	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
Bromomethane	ND	60		µg/L	20	12/27/2023 6:46:12 PM	R102095
2-Butanone	ND	200		µg/L	20	12/27/2023 6:46:12 PM	R102095
Carbon disulfide	ND	200		µg/L	20	12/27/2023 6:46:12 PM	R102095
Carbon Tetrachloride	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
Chlorobenzene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
Chloroethane	ND	40		µg/L	20	12/27/2023 6:46:12 PM	R102095
Chloroform	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312912

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY RAW

Project: Former Y Station State Lead Site

Collection Date: 12/14/2023 12:50:00 PM

Lab ID: 2312912-002

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Chloromethane	ND	60		µg/L	20	12/27/2023 6:46:12 PM	R102095
2-Chlorotoluene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
4-Chlorotoluene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
cis-1,2-DCE	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
cis-1,3-Dichloropropene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	12/27/2023 6:46:12 PM	R102095
Dibromochloromethane	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
Dibromomethane	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,2-Dichlorobenzene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,3-Dichlorobenzene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,4-Dichlorobenzene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
Dichlorodifluoromethane	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,1-Dichloroethane	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,1-Dichloroethene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,2-Dichloropropane	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,3-Dichloropropane	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
2,2-Dichloropropane	ND	40		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,1-Dichloropropene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
Hexachlorobutadiene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
2-Hexanone	ND	200		µg/L	20	12/27/2023 6:46:12 PM	R102095
Isopropylbenzene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
4-Isopropyltoluene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
4-Methyl-2-pentanone	ND	200		µg/L	20	12/27/2023 6:46:12 PM	R102095
Methylene Chloride	ND	60		µg/L	20	12/27/2023 6:46:12 PM	R102095
n-Butylbenzene	ND	60		µg/L	20	12/27/2023 6:46:12 PM	R102095
n-Propylbenzene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
sec-Butylbenzene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
Styrene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
tert-Butylbenzene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	12/27/2023 6:46:12 PM	R102095
Tetrachloroethene (PCE)	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
trans-1,2-DCE	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
trans-1,3-Dichloropropene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,2,3-Trichlorobenzene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,2,4-Trichlorobenzene	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,1,1-Trichloroethane	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,1,2-Trichloroethane	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
Trichloroethene (TCE)	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312912

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY RAW

Project: Former Y Station State Lead Site

Collection Date: 12/14/2023 12:50:00 PM

Lab ID: 2312912-002

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Trichlorofluoromethane	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
1,2,3-Trichloropropane	ND	40		µg/L	20	12/27/2023 6:46:12 PM	R102095
Vinyl chloride	ND	20		µg/L	20	12/27/2023 6:46:12 PM	R102095
Xylenes, Total	1100	30		µg/L	20	12/27/2023 6:46:12 PM	R102095
Surr: 1,2-Dichloroethane-d4	95.0	70-130		%Rec	20	12/27/2023 6:46:12 PM	R102095
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	20	12/27/2023 6:46:12 PM	R102095
Surr: Dibromofluoromethane	85.6	70-130		%Rec	20	12/27/2023 6:46:12 PM	R102095
Surr: Toluene-d8	102	70-130		%Rec	20	12/27/2023 6:46:12 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312912

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y Station State Lead Site

Collection Date:

Lab ID: 2312912-003

Matrix: TRIP BLANK

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	ND	0.0095		µg/L	1	12/21/2023 6:40:59 AM	79463
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Toluene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Ethylbenzene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Naphthalene	ND	2.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1-Methylnaphthalene	ND	4.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
2-Methylnaphthalene	ND	4.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Acetone	ND	10		µg/L	1	12/27/2023 7:13:38 PM	R102095
Bromobenzene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Bromodichloromethane	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Bromoform	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Bromomethane	ND	3.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
2-Butanone	ND	10		µg/L	1	12/27/2023 7:13:38 PM	R102095
Carbon disulfide	ND	10		µg/L	1	12/27/2023 7:13:38 PM	R102095
Carbon Tetrachloride	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Chlorobenzene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Chloroethane	ND	2.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Chloroform	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Chloromethane	ND	3.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
2-Chlorotoluene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
4-Chlorotoluene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
cis-1,2-DCE	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Dibromochloromethane	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Dibromomethane	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,1-Dichloroethane	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,1-Dichloroethene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,2-Dichloropropane	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312912

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y Station State Lead Site

Collection Date:

Lab ID: 2312912-003

Matrix: TRIP BLANK

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
1,3-Dichloropropane	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
2,2-Dichloropropane	ND	2.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,1-Dichloropropene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Hexachlorobutadiene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
2-Hexanone	ND	10		µg/L	1	12/27/2023 7:13:38 PM	R102095
Isopropylbenzene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
4-Isopropyltoluene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
4-Methyl-2-pentanone	ND	10		µg/L	1	12/27/2023 7:13:38 PM	R102095
Methylene Chloride	ND	3.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
n-Butylbenzene	ND	3.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
n-Propylbenzene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
sec-Butylbenzene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Styrene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
tert-Butylbenzene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
trans-1,2-DCE	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Trichlorofluoromethane	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Vinyl chloride	ND	1.0		µg/L	1	12/27/2023 7:13:38 PM	R102095
Xylenes, Total	ND	1.5		µg/L	1	12/27/2023 7:13:38 PM	R102095
Surr: 1,2-Dichloroethane-d4	97.3	70-130		%Rec	1	12/27/2023 7:13:38 PM	R102095
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	12/27/2023 7:13:38 PM	R102095
Surr: Dibromofluoromethane	86.5	70-130		%Rec	1	12/27/2023 7:13:38 PM	R102095
Surr: Toluene-d8	103	70-130		%Rec	1	12/27/2023 7:13:38 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312912

05-Jan-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBW	Batch ID: R101875	RunNo: 101875
Prep Date:	Analysis Date: 12/15/2023	SeqNo: 3756696 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSW	Batch ID: R101875	RunNo: 101875
Prep Date:	Analysis Date: 12/15/2023	SeqNo: 3756697 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.0	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	102	90	110			
Sulfate	9.9	0.50	10.00	0	98.7	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Above Quantitation Range/Estimated Value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of standard limits. If undiluted results may be estimated. | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312912

05-Jan-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-79463	SampType: MBLK		TestCode: EPA Method 8011/504.1: EDB							
Client ID: PBW	Batch ID: 79463		RunNo: 102074							
Prep Date: 12/19/2023	Analysis Date: 12/20/2023		SeqNo: 3766940		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-79463	SampType: LCS		TestCode: EPA Method 8011/504.1: EDB							
Client ID: LCSW	Batch ID: 79463		RunNo: 102074							
Prep Date: 12/19/2023	Analysis Date: 12/20/2023		SeqNo: 3766946		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.11	0.010	0.1000	0	107	70	130			

Sample ID: MB-79463	SampType: MBLK		TestCode: EPA Method 8011/504.1: EDB							
Client ID: PBW	Batch ID: 79463		RunNo: 102074							
Prep Date: 12/19/2023	Analysis Date: 12/20/2023		SeqNo: 3766948		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-79463	SampType: LCS		TestCode: EPA Method 8011/504.1: EDB							
Client ID: LCSW	Batch ID: 79463		RunNo: 102074							
Prep Date: 12/19/2023	Analysis Date: 12/20/2023		SeqNo: 3766951		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.10	0.010	0.1000	0	101	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312912

05-Jan-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-79449	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 79449	RunNo: 101917								
Prep Date: 12/18/2023	Analysis Date: 12/18/2023	SeqNo: 3759177	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.52		0.5000		104	54.5	177			

Sample ID: LCS-79449	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: LCSW	Batch ID: 79449	RunNo: 101917								
Prep Date: 12/18/2023	Analysis Date: 12/18/2023	SeqNo: 3759179	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.5	1.0	2.500	0	100	57	147			
Surr: DNOP	0.26		0.2500		104	54.5	177			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312912

05-Jan-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: GA101869		RunNo: 101869							
Prep Date:	Analysis Date: 12/15/2023		SeqNo: 3756163		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.44	0.050	0.5000	0	88.2	70	130			
Surr: BFB	41		20.00		206	15	270			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: GA101869		RunNo: 101869							
Prep Date:	Analysis Date: 12/15/2023		SeqNo: 3756164		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	20		20.00		100	15	270			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312912

05-Jan-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID:	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R102095	RunNo:	102095					
Prep Date:		Analysis Date:	12/27/2023	SeqNo:	3768395	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	16	1.0	20.00	0	82.4	70	130			
Toluene	22	1.0	20.00	0	108	70	130			
Chlorobenzene	21	1.0	20.00	0	107	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	97.3	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	84.9	70	130			
Surr: 1,2-Dichloroethane-d4	8.9		10.00		89.3	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	8.0		10.00		80.5	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID:	2312912-001ams	SampType:	MS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	FY Treated Eff	Batch ID:	R102095	RunNo:	102095					
Prep Date:		Analysis Date:	12/27/2023	SeqNo:	3768397	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	45	1.0	20.00	21.41	116	70	130			
Toluene	40	1.0	20.00	14.70	129	70	130			
Chlorobenzene	21	1.0	20.00	0	105	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	106	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	89.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.9	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		117	70	130			
Surr: Dibromofluoromethane	8.9		10.00		88.9	70	130			
Surr: Toluene-d8	11		10.00		105	70	130			

Sample ID:	2312912-001amsd	SampType:	MSD	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	FY Treated Eff	Batch ID:	R102095	RunNo:	102095					
Prep Date:		Analysis Date:	12/27/2023	SeqNo:	3768398	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	41	1.0	20.00	21.41	100	70	130	7.47	20	
Toluene	40	1.0	20.00	14.70	127	70	130	0.949	20	
Chlorobenzene	20	1.0	20.00	0	101	70	130	3.90	20	
1,1-Dichloroethene	20	1.0	20.00	0	97.5	70	130	8.75	20	
Trichloroethene (TCE)	17	1.0	20.00	0	85.9	70	130	3.81	20	
Surr: 1,2-Dichloroethane-d4	10		10.00		99.6	70	130	0	0	
Surr: 4-Bromofluorobenzene	11		10.00		113	70	130	0	0	
Surr: Dibromofluoromethane	9.0		10.00		89.6	70	130	0	0	
Surr: Toluene-d8	11		10.00		108	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312912

05-Jan-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R102095	RunNo: 102095								
Prep Date:	Analysis Date: 12/27/2023	SeqNo: 3768421			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

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- B Analyte detected in the associated Method Blank
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- J Analyte detected below quantitation limits
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- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312912

05-Jan-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES
Client ID: PBW	Batch ID: R102095	RunNo: 102095
Prep Date:	Analysis Date: 12/27/2023	SeqNo: 3768421 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.6		10.00		86.2	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	8.1		10.00		80.9	70	130			
Surr: Toluene-d8	11		10.00		106	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312912

05-Jan-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-79519	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 79519	RunNo: 102043								
Prep Date: 12/20/2023	Analysis Date: 12/22/2023	SeqNo: 3765883	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: LCS-79519	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 79519	RunNo: 102043								
Prep Date: 12/20/2023	Analysis Date: 12/22/2023	SeqNo: 3765884	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	50.0	1000	0	102	80	120			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Above Quantitation Range/Estimated Value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of standard limits. If undiluted results may be estimated. | |



Sample Log-In Check List

Client Name: Daniel B. Stephens &

Work Order Number: 2312912

RcptNo: 1

Received By: Nancy Proctor

12/15/2023 9:26:00 AM

Completed By: Cheyenne Cason

12/15/2023 9:33:59 AM

Handwritten signature

Reviewed By: *JA 12-15-23*

Chain of Custody

- 1. Is Chain of Custody complete? Yes No Not Present
- 2. How was the sample delivered? Client

Log In

- 3. Was an attempt made to cool the samples? Yes No NA
- 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 5. Sample(s) in proper container(s)? Yes No
- 6. Sufficient sample volume for indicated test(s)? Yes No
- 7. Are samples (except VOA and ONG) properly preserved? Yes No
- 8. Was preservative added to bottles? Yes No NA
- 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
- 10. Were any sample containers received broken? Yes No
- 11. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
- 12. Are matrices correctly identified on Chain of Custody? Yes No
- 13. Is it clear what analyses were requested? Yes No
- 14. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: 2

(<2 or >12 unless noted)

Adjusted? No

Checked by: *[Signature]* 12/15/23

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Not Present	Morty		

Chain-of-Custody Record

Client:

Daniel B Stephens & Associates

Mailing Address: 6020 Academy Rd NE, STE 100

Albuquerque, NM 87109

Phone #: 505-822-9400

email or Fax#: gherrmann@geo-logic.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other

EDD (Type)

Turn-Around Time:

Standard Rush

Project Name:

Former Y Station State Lead Site

Project #:

DB18.1157

Project Manager:

Grace Herrmann

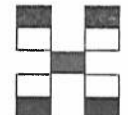
Sampler: **Towers**

On Ice: Yes No

of Coolers: **1**

Cooler Temp (including CF): **3.6 ± 0 = 3.6 °C** *meanly*

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO and DRO - EPA method 8015B	Sulfate/Chloride - EPA method 200.7	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
12/14/23	1240	AQ	FY Treated Eff	Various	Various	001	X	X	X	X	X	X	X	X
	1250		FY RAW	1	1	002	1	1	1	1	1	1	1	1



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO and DRO - EPA method 8015B	Sulfate/Chloride - EPA method 200.7	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
X	X	X	X	X	X	X	X
1	1	1	1	1	1	1	1

Date: 12/15/23 Time: 9:20 Relinquished by: [Signature] Received by: [Signature] CPO Date: 12/15/23 Time: 9:26

Date: Time: Relinquished by: Received by: Via: Date Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

January 24, 2024

Grace Herrmann

Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL: (505) 822-9400
FAX: (505) 822-8877

RE: Former Y Station State Lead Site

OrderNo.: 2401140

Dear Grace Herrmann:

Eurofins Environment Testing South Central, LLC received 5 sample(s) on 1/4/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401140

Date Reported: 1/24/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y Station State Lead Site

Collection Date: 1/3/2024 8:35:00 AM

Lab ID: 2401140-001

Matrix: AQUEOUS

Received Date: 1/4/2024 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	82	10		mg/L	20	1/4/2024 2:29:14 PM	R102252
Nitrogen, Nitrate (As N)	2.1	0.10		mg/L	1	1/4/2024 1:50:39 PM	R102252
Sulfate	44	10		mg/L	20	1/4/2024 2:29:14 PM	R102252
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	526	100	*D	mg/L	1	1/9/2024 4:13:00 PM	79771
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	12	1.9		µg/L	200	1/18/2024 12:21:52 AM	79950
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: DGH
Diesel Range Organics (DRO)	2.3	1.0		mg/L	1	1/9/2024 4:40:16 PM	79793
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/9/2024 4:40:16 PM	79793
Surr: DNOP	125	54.5-177		%Rec	1	1/9/2024 4:40:16 PM	79793
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	5.3	1.0		mg/L	20	1/5/2024 2:35:22 PM	GA10227
Surr: BFB	104	15-270		%Rec	20	1/5/2024 2:35:22 PM	GA10227
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	990	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
Toluene	470	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
Ethylbenzene	31	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,2,4-Trimethylbenzene	34	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,3,5-Trimethylbenzene	21	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,2-Dichloroethane (EDC)	140	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
Naphthalene	ND	40		µg/L	20	1/9/2024 10:38:00 PM	R102324
1-Methylnaphthalene	ND	80		µg/L	20	1/9/2024 10:38:00 PM	R102324
2-Methylnaphthalene	ND	80		µg/L	20	1/9/2024 10:38:00 PM	R102324
Acetone	ND	200		µg/L	20	1/9/2024 10:38:00 PM	R102324
Bromobenzene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
Bromodichloromethane	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
Bromoform	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
Bromomethane	ND	60		µg/L	20	1/9/2024 10:38:00 PM	R102324
2-Butanone	ND	200		µg/L	20	1/9/2024 10:38:00 PM	R102324
Carbon disulfide	ND	200		µg/L	20	1/9/2024 10:38:00 PM	R102324
Carbon Tetrachloride	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
Chlorobenzene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
Chloroethane	ND	40		µg/L	20	1/9/2024 10:38:00 PM	R102324
Chloroform	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401140

Date Reported: 1/24/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y Station State Lead Site

Collection Date: 1/3/2024 8:35:00 AM

Lab ID: 2401140-001

Matrix: AQUEOUS

Received Date: 1/4/2024 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Chloromethane	ND	60		µg/L	20	1/9/2024 10:38:00 PM	R102324
2-Chlorotoluene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
4-Chlorotoluene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
cis-1,2-DCE	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
cis-1,3-Dichloropropene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	1/9/2024 10:38:00 PM	R102324
Dibromochloromethane	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
Dibromomethane	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,2-Dichlorobenzene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,3-Dichlorobenzene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,4-Dichlorobenzene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
Dichlorodifluoromethane	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,1-Dichloroethane	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,1-Dichloroethene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,2-Dichloropropane	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,3-Dichloropropane	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
2,2-Dichloropropane	ND	40		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,1-Dichloropropene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
Hexachlorobutadiene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
2-Hexanone	ND	200		µg/L	20	1/9/2024 10:38:00 PM	R102324
Isopropylbenzene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
4-Isopropyltoluene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
4-Methyl-2-pentanone	ND	200		µg/L	20	1/9/2024 10:38:00 PM	R102324
Methylene Chloride	ND	60		µg/L	20	1/9/2024 10:38:00 PM	R102324
n-Butylbenzene	ND	60		µg/L	20	1/9/2024 10:38:00 PM	R102324
n-Propylbenzene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
sec-Butylbenzene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
Styrene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
tert-Butylbenzene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	1/9/2024 10:38:00 PM	R102324
Tetrachloroethene (PCE)	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
trans-1,2-DCE	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
trans-1,3-Dichloropropene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,2,3-Trichlorobenzene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,2,4-Trichlorobenzene	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,1,1-Trichloroethane	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,1,2-Trichloroethane	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
Trichloroethene (TCE)	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401140

Date Reported: 1/24/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y Station State Lead Site

Collection Date: 1/3/2024 8:35:00 AM

Lab ID: 2401140-001

Matrix: AQUEOUS

Received Date: 1/4/2024 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Trichlorofluoromethane	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
1,2,3-Trichloropropane	ND	40		µg/L	20	1/9/2024 10:38:00 PM	R102324
Vinyl chloride	ND	20		µg/L	20	1/9/2024 10:38:00 PM	R102324
Xylenes, Total	320	30		µg/L	20	1/9/2024 10:38:00 PM	R102324
Surr: 1,2-Dichloroethane-d4	96.9	70-130		%Rec	20	1/9/2024 10:38:00 PM	R102324
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	20	1/9/2024 10:38:00 PM	R102324
Surr: Dibromofluoromethane	101	70-130		%Rec	20	1/9/2024 10:38:00 PM	R102324
Surr: Toluene-d8	100	70-130		%Rec	20	1/9/2024 10:38:00 PM	R102324

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401140

Date Reported: 1/24/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated EFF

Project: Former Y Station State Lead Site

Collection Date: 1/3/2024 9:12:00 AM

Lab ID: 2401140-002

Matrix: AQUEOUS

Received Date: 1/4/2024 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	80	10		mg/L	20	1/4/2024 2:54:57 PM	R102252
Nitrogen, Nitrate (As N)	2.0	0.10		mg/L	1	1/4/2024 2:42:06 PM	R102252
Sulfate	43	10		mg/L	20	1/4/2024 2:54:57 PM	R102252
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	526	100	*D	mg/L	1	1/9/2024 4:13:00 PM	79771
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	1.3	0.48		µg/L	50	1/18/2024 12:38:40 AM	79950
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: DGH
Diesel Range Organics (DRO)	2.2	1.0		mg/L	1	1/9/2024 4:50:40 PM	79793
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/9/2024 4:50:40 PM	79793
Surr: DNOP	130	54.5-177		%Rec	1	1/9/2024 4:50:40 PM	79793
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	0.12	0.050		mg/L	1	1/5/2024 2:59:02 PM	GA10227
Surr: BFB	105	15-270		%Rec	1	1/5/2024 2:59:02 PM	GA10227
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	5.4	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Toluene	2.6	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Ethylbenzene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,2-Dichloroethane (EDC)	5.5	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,2-Dibromoethane (EDB)	1.4	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Naphthalene	2.6	2.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1-Methylnaphthalene	ND	4.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
2-Methylnaphthalene	ND	4.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Acetone	22	10		µg/L	1	1/9/2024 9:49:00 PM	R102324
Bromobenzene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Bromodichloromethane	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Bromoform	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Bromomethane	ND	3.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
2-Butanone	17	10		µg/L	1	1/9/2024 9:49:00 PM	R102324
Carbon disulfide	ND	10		µg/L	1	1/9/2024 9:49:00 PM	R102324
Carbon Tetrachloride	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Chlorobenzene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Chloroethane	ND	2.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Chloroform	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401140

Date Reported: 1/24/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated EFF

Project: Former Y Station State Lead Site

Collection Date: 1/3/2024 9:12:00 AM

Lab ID: 2401140-002

Matrix: AQUEOUS

Received Date: 1/4/2024 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Chloromethane	ND	3.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
2-Chlorotoluene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
4-Chlorotoluene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
cis-1,2-DCE	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Dibromochloromethane	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Dibromomethane	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,1-Dichloroethane	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,1-Dichloroethene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,2-Dichloropropane	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,3-Dichloropropane	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
2,2-Dichloropropane	ND	2.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,1-Dichloropropene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Hexachlorobutadiene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
2-Hexanone	19	10		µg/L	1	1/9/2024 9:49:00 PM	R102324
Isopropylbenzene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
4-Isopropyltoluene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
4-Methyl-2-pentanone	ND	10		µg/L	1	1/9/2024 9:49:00 PM	R102324
Methylene Chloride	ND	3.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
n-Butylbenzene	ND	3.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
n-Propylbenzene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
sec-Butylbenzene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Styrene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
tert-Butylbenzene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
trans-1,2-DCE	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401140

Date Reported: 1/24/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated EFF

Project: Former Y Station State Lead Site

Collection Date: 1/3/2024 9:12:00 AM

Lab ID: 2401140-002

Matrix: AQUEOUS

Received Date: 1/4/2024 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Trichlorofluoromethane	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Vinyl chloride	ND	1.0		µg/L	1	1/9/2024 9:49:00 PM	R102324
Xylenes, Total	2.5	1.5		µg/L	1	1/9/2024 9:49:00 PM	R102324
Surr: 1,2-Dichloroethane-d4	95.9	70-130		%Rec	1	1/9/2024 9:49:00 PM	R102324
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	1/9/2024 9:49:00 PM	R102324
Surr: Dibromofluoromethane	102	70-130		%Rec	1	1/9/2024 9:49:00 PM	R102324
Surr: Toluene-d8	101	70-130		%Rec	1	1/9/2024 9:49:00 PM	R102324

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401140

Date Reported: 1/24/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Ox EFF

Project: Former Y Station State Lead Site

Collection Date: 1/3/2024 9:25:00 AM

Lab ID: 2401140-003

Matrix: AIR

Received Date: 1/4/2024 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	36	5.0		µg/L	1	1/4/2024 3:57:38 PM	GW1022
Surr: BFB	96.4	15-412		%Rec	1	1/4/2024 3:57:38 PM	GW1022
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	1/4/2024 3:57:38 PM	BW1022
Benzene	6.0	0.10		µg/L	1	1/4/2024 3:57:38 PM	BW1022
Toluene	3.6	0.10		µg/L	1	1/4/2024 3:57:38 PM	BW1022
Ethylbenzene	0.24	0.10		µg/L	1	1/4/2024 3:57:38 PM	BW1022
Xylenes, Total	0.80	0.20		µg/L	1	1/4/2024 3:57:38 PM	BW1022
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	1/4/2024 3:57:38 PM	BW1022

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401140

Date Reported: 1/24/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Comb INF

Project: Former Y Station State Lead Site

Collection Date: 1/3/2024 9:31:00 AM

Lab ID: 2401140-004

Matrix: AIR

Received Date: 1/4/2024 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	7700	500		µg/L	100	1/4/2024 4:21:20 PM	GW1022
Surr: BFB	107	15-412		%Rec	100	1/4/2024 4:21:20 PM	GW1022
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	100	1/4/2024 4:21:20 PM	BW1022
Benzene	99	10		µg/L	100	1/4/2024 4:21:20 PM	BW1022
Toluene	340	10		µg/L	100	1/4/2024 4:21:20 PM	BW1022
Ethylbenzene	29	10		µg/L	100	1/4/2024 4:21:20 PM	BW1022
Xylenes, Total	150	20		µg/L	100	1/4/2024 4:21:20 PM	BW1022
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	100	1/4/2024 4:21:20 PM	BW1022

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401140

Date Reported: 1/24/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y Station State Lead Site

Collection Date:

Lab ID: 2401140-005

Matrix: TRIP BLANK

Received Date: 1/4/2024 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	ND	0.0096		µg/L	1	1/18/2024 4:33:28 AM	79950
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Toluene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Ethylbenzene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Naphthalene	ND	2.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1-Methylnaphthalene	ND	4.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
2-Methylnaphthalene	ND	4.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Acetone	ND	10		µg/L	1	1/9/2024 10:14:00 PM	R102324
Bromobenzene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Bromodichloromethane	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Bromoform	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Bromomethane	ND	3.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
2-Butanone	ND	10		µg/L	1	1/9/2024 10:14:00 PM	R102324
Carbon disulfide	ND	10		µg/L	1	1/9/2024 10:14:00 PM	R102324
Carbon Tetrachloride	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Chlorobenzene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Chloroethane	ND	2.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Chloroform	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Chloromethane	ND	3.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
2-Chlorotoluene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
4-Chlorotoluene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
cis-1,2-DCE	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Dibromochloromethane	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Dibromomethane	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,1-Dichloroethane	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,1-Dichloroethene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,2-Dichloropropane	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401140

Date Reported: 1/24/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y Station State Lead Site

Collection Date:

Lab ID: 2401140-005

Matrix: TRIP BLANK

Received Date: 1/4/2024 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
1,3-Dichloropropane	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
2,2-Dichloropropane	ND	2.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,1-Dichloropropene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Hexachlorobutadiene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
2-Hexanone	ND	10		µg/L	1	1/9/2024 10:14:00 PM	R102324
Isopropylbenzene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
4-Isopropyltoluene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
4-Methyl-2-pentanone	ND	10		µg/L	1	1/9/2024 10:14:00 PM	R102324
Methylene Chloride	ND	3.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
n-Butylbenzene	ND	3.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
n-Propylbenzene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
sec-Butylbenzene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Styrene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
tert-Butylbenzene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
trans-1,2-DCE	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Trichlorofluoromethane	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Vinyl chloride	ND	1.0		µg/L	1	1/9/2024 10:14:00 PM	R102324
Xylenes, Total	ND	1.5		µg/L	1	1/9/2024 10:14:00 PM	R102324
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	1/9/2024 10:14:00 PM	R102324
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	1/9/2024 10:14:00 PM	R102324
Surr: Dibromofluoromethane	108	70-130		%Rec	1	1/9/2024 10:14:00 PM	R102324
Surr: Toluene-d8	99.8	70-130		%Rec	1	1/9/2024 10:14:00 PM	R102324

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401140

24-Jan-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R102252	RunNo: 102252								
Prep Date:	Analysis Date: 1/4/2024	SeqNo: 3775028			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R102252	RunNo: 102252								
Prep Date:	Analysis Date: 1/4/2024	SeqNo: 3775029			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	4.7	0.50	5.000	0	94.0	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	98.0	90	110			
Sulfate	9.6	0.50	10.00	0	95.7	90	110			

Sample ID: 2401140-001DMS	SampType: ms	TestCode: EPA Method 300.0: Anions								
Client ID: FY Raw	Batch ID: R102252	RunNo: 102252								
Prep Date:	Analysis Date: 1/4/2024	SeqNo: 3775039			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nitrogen, Nitrate (As N)	4.7	0.10	2.500	2.103	103	80	120			
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Sample ID: 2401140-001DMSD	SampType: msd	TestCode: EPA Method 300.0: Anions								
Client ID: FY Raw	Batch ID: R102252	RunNo: 102252								
Prep Date:	Analysis Date: 1/4/2024	SeqNo: 3775040			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Nitrogen, Nitrate (As N)	4.7	0.10	2.500	2.103	104	80	120	0.403	20	
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Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401140

24-Jan-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-79950	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 79950	RunNo: 102529								
Prep Date: 1/17/2024	Analysis Date: 1/17/2024	SeqNo: 3787347	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-79950	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 79950	RunNo: 102529								
Prep Date: 1/17/2024	Analysis Date: 1/18/2024	SeqNo: 3787348	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.087	0.010	0.1000	0	86.6	70	130			

Sample ID: LCS-79950	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 79950	RunNo: 102529								
Prep Date: 1/17/2024	Analysis Date: 1/18/2024	SeqNo: 3787351	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.091	0.010	0.1000	0	91.1	70	130			

Sample ID: MB-79950	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 79950	RunNo: 102529								
Prep Date: 1/17/2024	Analysis Date: 1/17/2024	SeqNo: 3787355	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401140

24-Jan-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: LCS-79793	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: LCSW	Batch ID: 79793		RunNo: 102325							
Prep Date: 1/9/2024	Analysis Date: 1/9/2024		SeqNo: 3779078		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.9	1.0	2.500	0	117	57	147			
Surr: DNOP	0.31		0.2500		124	54.5	177			

Sample ID: MB-79793	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: PBW	Batch ID: 79793		RunNo: 102325							
Prep Date: 1/9/2024	Analysis Date: 1/9/2024		SeqNo: 3779079		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.61		0.5000		121	54.5	177			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401140

24-Jan-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: GW102232		RunNo: 102232							
Prep Date:	Analysis Date: 1/4/2024		SeqNo: 3773962		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.050	0.5000	0	104	70	130			
Surr: BFB	42		20.00		212	15	270			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: GW102232		RunNo: 102232							
Prep Date:	Analysis Date: 1/4/2024		SeqNo: 3773963		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	20		20.00		102	15	270			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: GA102272		RunNo: 102272							
Prep Date:	Analysis Date: 1/5/2024		SeqNo: 3775871		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.050	0.5000	0	103	70	130			
Surr: BFB	43		20.00		213	15	270			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: GA102272		RunNo: 102272							
Prep Date:	Analysis Date: 1/5/2024		SeqNo: 3775872		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	20		20.00		98.7	15	270			

Sample ID: 2401140-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: FY Raw	Batch ID: GA102272		RunNo: 102272							
Prep Date:	Analysis Date: 1/5/2024		SeqNo: 3776006		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	1.0	10.00	5.304	103	41.2	148			
Surr: BFB	850		400.0		212	15	270			

Sample ID: 2401140-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: FY Raw	Batch ID: GA102272		RunNo: 102272							
Prep Date:	Analysis Date: 1/5/2024		SeqNo: 3776036		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401140

24-Jan-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 2401140-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: FY Raw	Batch ID: GA102272	RunNo: 102272								
Prep Date:	Analysis Date: 1/5/2024	SeqNo: 3776036			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	1.0	10.00	5.304	101	41.2	148	0.852	20	
Surr: BFB	860		400.0		216	15	270	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401140

24-Jan-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: R102324	RunNo: 102324								
Prep Date:	Analysis Date: 1/9/2024	SeqNo: 3778622	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.1	70	130			
Toluene	19	1.0	20.00	0	93.7	70	130			
Chlorobenzene	19	1.0	20.00	0	95.0	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	92.7	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	93.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.6	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R102324	RunNo: 102324								
Prep Date:	Analysis Date: 1/9/2024	SeqNo: 3778625	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	12	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401140

24-Jan-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R102324	RunNo: 102324								
Prep Date:	Analysis Date: 1/9/2024	SeqNo: 3778625			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401140

24-Jan-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R102324		RunNo: 102324							
Prep Date:	Analysis Date: 1/9/2024		SeqNo: 3778625				Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.7	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	10		10.00		99.7	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401140

24-Jan-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-79771	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 79771	RunNo: 102330								
Prep Date: 1/8/2024	Analysis Date: 1/9/2024	SeqNo: 3778694	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: LCS-79771	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 79771	RunNo: 102330								
Prep Date: 1/8/2024	Analysis Date: 1/9/2024	SeqNo: 3778695	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	989	50.0	1000	0	98.9	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Sample Log-In Check List

Client Name: **Daniel B. Stephens &** Work Order Number: **2401140** RcptNo: **1**

Received By: **Jackie Bolte** 1/4/2024 8:15:00 AM *Jackie Bolte*

Completed By: **Cheyenne Cason** 1/4/2024 8:48:13 AM *Cason*

Reviewed By: *[Signature]* 1/4/24

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
5. Sample(s) in proper container(s)? Samples not Frozen Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: 2
(2 or >12 unless noted)

Adjusted? NO

Checked by: [Signature] 1/4/24

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____

By Whom: _____ Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-1.1	Good	Not Present	Yogi		

Chain-of-Custody Record

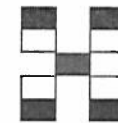
Client:
Daniel B Stephens & Associates
 Mailing Address: **6020 Academy Rd NE, STE 100**
Albuquerque, NM 87109
 Phone #: **505-822-9400**
 email or Fax#: **gherrmann@geo-logic.com**
 QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush _____
 Project Name:
Former Y Station State Lead Site
 Project #:
DB18.1157
 Project Manager:
Grace Herrmann
 Sampler: *Alex Nunez-Thompson*
 On Ice: Yes No

of Coolers: *2*
 Cooler Temp (including CF): *-1.1 -0.1 -1.1*

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
<i>1/3/24</i>	<i>8:35</i>	<i>H₂O</i>	<i>FY Raw</i>	<i>8-40ml; 2-plastic; 1-amber</i>	<i>HCl, Thio H₂SO₄</i>	<i>2401140</i>
	<i>9:12</i>	<i>H₂O</i>	<i>FY Treated EFF</i>	<i>7-40ml; 2-plastic; 1-amber</i>	<i>HCl, Thio H₂SO₄</i>	<i>001</i>
	<i>9:25</i>	<i>Air</i>	<i>FY Ox EFF</i>	<i>1-Tedlar</i>		<i>003</i>
	<i>9:31</i>	<i>Air</i>	<i>FY Comb Inf</i>	<i>1-Tedlar</i>		<i>004</i>
			<i>Trip Blank</i>			<i>005</i>



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO and DRO - EPA method 8015B	Sulfate/Chloride - EPA method 200.7	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B											
<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>													
<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>													
						<i>X</i>	<i>X</i>											
						<i>X</i>	<i>X</i>											

Date: *1/4/24* Time: *8:15* Relinquished by: *Alex Nunez-Thompson*

Received by: *[Signature]* Via: *CD* Date: *1/4/24* Time: *8:15*

Remarks: *Not Frozen per 1/4/24*

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.

February 08, 2024

Grace Herrmann

Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL: (505) 822-9400
FAX: (505) 822-8877

RE: Former Y Station State Lead Site

OrderNo.: 2401730

Dear Grace Herrmann:

Eurofins Environment Testing South Central, LLC received 6 sample(s) on 1/18/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401730

Date Reported: 2/8/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY OX Eff

Project: Former Y Station State Lead Site

Collection Date: 1/16/2024 1:58:00 PM

Lab ID: 2401730-001

Matrix: AIR

Received Date: 1/18/2024 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	74	5.0		µg/L	1	1/19/2024 12:47:40 PM	GA1025E
Surr: BFB	103	15-412		%Rec	1	1/19/2024 12:47:40 PM	GA1025E
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	1/19/2024 12:47:40 PM	BA10255
Benzene	6.8	0.10		µg/L	1	1/19/2024 12:47:40 PM	BA10255
Toluene	6.3	0.10		µg/L	1	1/19/2024 12:47:40 PM	BA10255
Ethylbenzene	0.48	0.10		µg/L	1	1/19/2024 12:47:40 PM	BA10255
Xylenes, Total	2.0	0.20		µg/L	1	1/19/2024 12:47:40 PM	BA10255
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	1/19/2024 12:47:40 PM	BA10255

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401730

Date Reported: 2/8/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Comb Inf

Project: Former Y Station State Lead Site

Collection Date: 1/16/2024 2:10:00 PM

Lab ID: 2401730-002

Matrix: AIR

Received Date: 1/18/2024 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	7700	500		µg/L	100	1/19/2024 1:35:15 PM	GA1025E
Surr: BFB	102	15-412		%Rec	100	1/19/2024 1:35:15 PM	GA1025E
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	100	1/19/2024 1:35:15 PM	BA10255
Benzene	86	10		µg/L	100	1/19/2024 1:35:15 PM	BA10255
Toluene	330	10		µg/L	100	1/19/2024 1:35:15 PM	BA10255
Ethylbenzene	30	10		µg/L	100	1/19/2024 1:35:15 PM	BA10255
Xylenes, Total	150	20		µg/L	100	1/19/2024 1:35:15 PM	BA10255
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	100	1/19/2024 1:35:15 PM	BA10255

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401730

Date Reported: 2/8/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y Station State Lead Site

Collection Date: 1/16/2024 3:21:00 PM

Lab ID: 2401730-003

Matrix: AQUEOUS

Received Date: 1/18/2024 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: RBC
Chloride	79	10		mg/L	20	1/18/2024 1:05:21 PM	R102544
Nitrogen, Nitrite (As N)	0.11	0.10		mg/L	1	1/18/2024 12:52:54 PM	R102544
Nitrogen, Nitrate (As N)	2.1	0.10		mg/L	1	1/18/2024 12:52:54 PM	R102544
Sulfate	43	10		mg/L	20	1/18/2024 1:05:21 PM	R102544
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	544	50.0	*	mg/L	1	1/25/2024 1:50:00 PM	80045
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	12	1.9		µg/L	200	1/23/2024 8:17:05 PM	80009
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: DGH
Diesel Range Organics (DRO)	1.3	1.0		mg/L	1	1/24/2024 6:45:20 PM	80042
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/24/2024 6:45:20 PM	80042
Surr: DNOP	98.1	54.5-177		%Rec	1	1/24/2024 6:45:20 PM	80042
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	5.6	1.0		mg/L	20	1/22/2024 12:55:47 PM	GW1025
Surr: BFB	100	15-270		%Rec	20	1/22/2024 12:55:47 PM	GW1025
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	850	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
Toluene	590	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
Ethylbenzene	35	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,2,4-Trimethylbenzene	37	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,3,5-Trimethylbenzene	23	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,2-Dichloroethane (EDC)	140	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
Naphthalene	ND	40		µg/L	20	1/27/2024 6:27:45 PM	R102718
1-Methylnaphthalene	ND	80		µg/L	20	1/27/2024 6:27:45 PM	R102718
2-Methylnaphthalene	ND	80		µg/L	20	1/27/2024 6:27:45 PM	R102718
Acetone	ND	200		µg/L	20	1/27/2024 6:27:45 PM	R102718
Bromobenzene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
Bromodichloromethane	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
Bromoform	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
Bromomethane	ND	60		µg/L	20	1/27/2024 6:27:45 PM	R102718
2-Butanone	ND	200		µg/L	20	1/27/2024 6:27:45 PM	R102718
Carbon disulfide	ND	200		µg/L	20	1/27/2024 6:27:45 PM	R102718
Carbon Tetrachloride	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
Chlorobenzene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
Chloroethane	ND	40		µg/L	20	1/27/2024 6:27:45 PM	R102718

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401730

Date Reported: 2/8/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y Station State Lead Site

Collection Date: 1/16/2024 3:21:00 PM

Lab ID: 2401730-003

Matrix: AQUEOUS

Received Date: 1/18/2024 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Chloroform	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
Chloromethane	ND	60		µg/L	20	1/27/2024 6:27:45 PM	R102718
2-Chlorotoluene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
4-Chlorotoluene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
cis-1,2-DCE	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
cis-1,3-Dichloropropene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	1/27/2024 6:27:45 PM	R102718
Dibromochloromethane	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
Dibromomethane	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,2-Dichlorobenzene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,3-Dichlorobenzene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,4-Dichlorobenzene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
Dichlorodifluoromethane	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,1-Dichloroethane	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,1-Dichloroethene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,2-Dichloropropane	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,3-Dichloropropane	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
2,2-Dichloropropane	ND	40		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,1-Dichloropropene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
Hexachlorobutadiene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
2-Hexanone	ND	200		µg/L	20	1/27/2024 6:27:45 PM	R102718
Isopropylbenzene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
4-Isopropyltoluene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
4-Methyl-2-pentanone	ND	200		µg/L	20	1/27/2024 6:27:45 PM	R102718
Methylene Chloride	ND	60		µg/L	20	1/27/2024 6:27:45 PM	R102718
n-Butylbenzene	ND	60		µg/L	20	1/27/2024 6:27:45 PM	R102718
n-Propylbenzene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
sec-Butylbenzene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
Styrene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
tert-Butylbenzene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	1/27/2024 6:27:45 PM	R102718
Tetrachloroethene (PCE)	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
trans-1,2-DCE	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
trans-1,3-Dichloropropene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,2,3-Trichlorobenzene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,2,4-Trichlorobenzene	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,1,1-Trichloroethane	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,1,2-Trichloroethane	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401730

Date Reported: 2/8/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y Station State Lead Site

Collection Date: 1/16/2024 3:21:00 PM

Lab ID: 2401730-003

Matrix: AQUEOUS

Received Date: 1/18/2024 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Trichloroethene (TCE)	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
Trichlorofluoromethane	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
1,2,3-Trichloropropane	ND	40		µg/L	20	1/27/2024 6:27:45 PM	R102718
Vinyl chloride	ND	20		µg/L	20	1/27/2024 6:27:45 PM	R102718
Xylenes, Total	370	30		µg/L	20	1/27/2024 6:27:45 PM	R102718
Surr: 1,2-Dichloroethane-d4	99.7	70-130		%Rec	20	1/27/2024 6:27:45 PM	R102718
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	20	1/27/2024 6:27:45 PM	R102718
Surr: Dibromofluoromethane	87.1	70-130		%Rec	20	1/27/2024 6:27:45 PM	R102718
Surr: Toluene-d8	100	70-130		%Rec	20	1/27/2024 6:27:45 PM	R102718

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401730

Date Reported: 2/8/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated

Project: Former Y Station State Lead Site

Collection Date: 1/16/2024 3:33:00 PM

Lab ID: 2401730-004

Matrix: AQUEOUS

Received Date: 1/18/2024 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: RBC
Chloride	80	10		mg/L	20	1/18/2024 1:31:03 PM	R102544
Nitrogen, Nitrite (As N)	0.11	0.10		mg/L	1	1/18/2024 1:18:12 PM	R102544
Nitrogen, Nitrate (As N)	2.0	0.10		mg/L	1	1/18/2024 1:18:12 PM	R102544
Sulfate	43	10		mg/L	20	1/18/2024 1:31:03 PM	R102544
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	529	50.0	*	mg/L	1	1/25/2024 1:50:00 PM	80045
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	1.8	0.095		µg/L	10	1/24/2024 11:39:37 AM	80009
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: DGH
Diesel Range Organics (DRO)	1.2	1.0		mg/L	1	1/24/2024 7:08:55 PM	80042
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	1/24/2024 7:08:55 PM	80042
Surr: DNOP	96.0	54.5-177		%Rec	1	1/24/2024 7:08:55 PM	80042
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	0.17	0.050		mg/L	1	1/22/2024 1:19:40 PM	GW1025
Surr: BFB	103	15-270		%Rec	1	1/22/2024 1:19:40 PM	GW1025
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	8.2	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Toluene	5.9	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Ethylbenzene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,2-Dichloroethane (EDC)	10	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,2-Dibromoethane (EDB)	2.4	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Naphthalene	2.6	2.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
2-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Acetone	22	10		µg/L	1	1/27/2024 6:55:02 PM	R102718
Bromobenzene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Bromodichloromethane	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Bromoform	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Bromomethane	ND	3.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
2-Butanone	23	10		µg/L	1	1/29/2024 5:32:32 PM	R102743
Carbon disulfide	ND	10		µg/L	1	1/27/2024 6:55:02 PM	R102718
Carbon Tetrachloride	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Chlorobenzene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Chloroethane	ND	2.0		µg/L	1	1/27/2024 6:55:02 PM	R102718

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401730

Date Reported: 2/8/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated

Project: Former Y Station State Lead Site

Collection Date: 1/16/2024 3:33:00 PM

Lab ID: 2401730-004

Matrix: AQUEOUS

Received Date: 1/18/2024 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Chloroform	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Chloromethane	ND	3.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
2-Chlorotoluene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
4-Chlorotoluene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
cis-1,2-DCE	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Dibromochloromethane	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Dibromomethane	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,1-Dichloroethane	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,1-Dichloroethene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,2-Dichloropropane	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,3-Dichloropropane	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
2,2-Dichloropropane	ND	2.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,1-Dichloropropene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Hexachlorobutadiene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
2-Hexanone	ND	10		µg/L	1	1/27/2024 6:55:02 PM	R102718
Isopropylbenzene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
4-Isopropyltoluene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
4-Methyl-2-pentanone	ND	10		µg/L	1	1/27/2024 6:55:02 PM	R102718
Methylene Chloride	ND	3.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
n-Butylbenzene	ND	3.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
n-Propylbenzene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
sec-Butylbenzene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Styrene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
tert-Butylbenzene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
trans-1,2-DCE	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401730

Date Reported: 2/8/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated

Project: Former Y Station State Lead Site

Collection Date: 1/16/2024 3:33:00 PM

Lab ID: 2401730-004

Matrix: AQUEOUS

Received Date: 1/18/2024 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Trichlorofluoromethane	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Vinyl chloride	ND	1.0		µg/L	1	1/27/2024 6:55:02 PM	R102718
Xylenes, Total	4.8	1.5		µg/L	1	1/27/2024 6:55:02 PM	R102718
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	1/27/2024 6:55:02 PM	R102718
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	1/27/2024 6:55:02 PM	R102718
Surr: Dibromofluoromethane	87.7	70-130		%Rec	1	1/27/2024 6:55:02 PM	R102718
Surr: Toluene-d8	106	70-130		%Rec	1	1/27/2024 6:55:02 PM	R102718

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401730

Date Reported: 2/8/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY DTA Eff

Project: Former Y Station State Lead Site

Collection Date: 1/16/2024 3:58:00 PM

Lab ID: 2401730-005

Matrix: AIR

Received Date: 1/18/2024 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	54	10		µg/L	2	1/19/2024 2:46:38 PM	GA1025E
Surr: BFB	97.8	15-412		%Rec	2	1/19/2024 2:46:38 PM	GA1025E
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	2	1/19/2024 2:46:38 PM	BA10255
Benzene	3.9	0.20		µg/L	2	1/19/2024 2:46:38 PM	BA10255
Toluene	4.2	0.20		µg/L	2	1/19/2024 2:46:38 PM	BA10255
Ethylbenzene	0.35	0.20		µg/L	2	1/19/2024 2:46:38 PM	BA10255
Xylenes, Total	2.3	0.40		µg/L	2	1/19/2024 2:46:38 PM	BA10255
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	2	1/19/2024 2:46:38 PM	BA10255

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401730

Date Reported: 2/8/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y Station State Lead Site

Collection Date:

Lab ID: 2401730-006

Matrix: TRIP BLANK

Received Date: 1/18/2024 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	ND	0.0095		µg/L	1	1/23/2024 8:50:47 PM	80009
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Toluene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Ethylbenzene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Naphthalene	ND	2.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
2-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Acetone	ND	10		µg/L	1	1/27/2024 7:22:23 PM	R102718
Bromobenzene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Bromodichloromethane	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Bromoform	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Bromomethane	ND	3.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
2-Butanone	ND	10		µg/L	1	1/27/2024 7:22:23 PM	R102718
Carbon disulfide	ND	10		µg/L	1	1/27/2024 7:22:23 PM	R102718
Carbon Tetrachloride	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Chlorobenzene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Chloroethane	ND	2.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Chloroform	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Chloromethane	ND	3.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
2-Chlorotoluene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
4-Chlorotoluene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
cis-1,2-DCE	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Dibromochloromethane	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Dibromomethane	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,1-Dichloroethane	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,1-Dichloroethene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,2-Dichloropropane	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401730

Date Reported: 2/8/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y Station State Lead Site

Collection Date:

Lab ID: 2401730-006

Matrix: TRIP BLANK

Received Date: 1/18/2024 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
1,3-Dichloropropane	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
2,2-Dichloropropane	ND	2.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,1-Dichloropropene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Hexachlorobutadiene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
2-Hexanone	ND	10		µg/L	1	1/27/2024 7:22:23 PM	R102718
Isopropylbenzene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
4-Isopropyltoluene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
4-Methyl-2-pentanone	ND	10		µg/L	1	1/27/2024 7:22:23 PM	R102718
Methylene Chloride	ND	3.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
n-Butylbenzene	ND	3.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
n-Propylbenzene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
sec-Butylbenzene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Styrene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
tert-Butylbenzene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
trans-1,2-DCE	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Trichlorofluoromethane	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Vinyl chloride	ND	1.0		µg/L	1	1/27/2024 7:22:23 PM	R102718
Xylenes, Total	ND	1.5		µg/L	1	1/27/2024 7:22:23 PM	R102718
Surr: 1,2-Dichloroethane-d4	92.5	70-130		%Rec	1	1/27/2024 7:22:23 PM	R102718
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	1/27/2024 7:22:23 PM	R102718
Surr: Dibromofluoromethane	85.2	70-130		%Rec	1	1/27/2024 7:22:23 PM	R102718
Surr: Toluene-d8	101	70-130		%Rec	1	1/27/2024 7:22:23 PM	R102718

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401730

08-Feb-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R102544	RunNo: 102544								
Prep Date:	Analysis Date: 1/18/2024	SeqNo: 3787718			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R102544	RunNo: 102544								
Prep Date:	Analysis Date: 1/18/2024	SeqNo: 3787719			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	96.1	90	110			
Nitrogen, Nitrite (As N)	0.99	0.10	1.000	0	98.7	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			
Sulfate	9.8	0.50	10.00	0	97.5	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401730

08-Feb-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-80009	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 80009	RunNo: 102639								
Prep Date: 1/23/2024	Analysis Date: 1/23/2024	SeqNo: 3792034	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-80009	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 80009	RunNo: 102639								
Prep Date: 1/23/2024	Analysis Date: 1/23/2024	SeqNo: 3792036	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.098	0.010	0.1000	0	98.4	70	130			

Sample ID: MB-80009	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 80009	RunNo: 102639								
Prep Date: 1/23/2024	Analysis Date: 1/23/2024	SeqNo: 3792039	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-80009	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 80009	RunNo: 102639								
Prep Date: 1/23/2024	Analysis Date: 1/23/2024	SeqNo: 3792041	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.094	0.010	0.1000	0	94.0	70	130			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Above Quantitation Range/Estimated Value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of standard limits. If undiluted results may be estimated. | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401730

08-Feb-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-80042	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 80042	RunNo: 102675								
Prep Date: 1/23/2024	Analysis Date: 1/24/2024	SeqNo: 3793319			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.53		0.5000		106	54.5	177			

Sample ID: LCS-80042	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: LCSW	Batch ID: 80042	RunNo: 102675								
Prep Date: 1/23/2024	Analysis Date: 1/24/2024	SeqNo: 3793320			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.8	1.0	2.500	0	111	57	147			
Surr: DNOP	0.25		0.2500		101	54.5	177			

Sample ID: MB-80042	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 80042	RunNo: 102657								
Prep Date: 1/23/2024	Analysis Date: 1/24/2024	SeqNo: 3793615			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.47		0.5000		93.0	54.5	177			

Sample ID: MB-80042	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 80042	RunNo: 102707								
Prep Date: 1/23/2024	Analysis Date: 1/26/2024	SeqNo: 3795070			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.56		0.5000		111	54.5	177			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401730

08-Feb-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 2401730-001adup	SampType: DUP	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: FY OX Eff	Batch ID: GA102555	RunNo: 102555								
Prep Date:	Analysis Date: 1/19/2024	SeqNo: 3789032			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	73	5.0						1.68	20	
Surr: BFB	2100		2000		103	15	412	0	0	

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Above Quantitation Range/Estimated Value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of standard limits. If undiluted results may be estimated. | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401730

08-Feb-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: GA102555		RunNo: 102555							
Prep Date:	Analysis Date: 1/19/2024		SeqNo: 3789035		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.46	0.050	0.5000	0	91.6	70	130			
Surr: BFB	40		20.00		199	15	270			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: GA102555		RunNo: 102555							
Prep Date:	Analysis Date: 1/19/2024		SeqNo: 3789036		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		94.2	15	270			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: GW102587		RunNo: 102587							
Prep Date:	Analysis Date: 1/22/2024		SeqNo: 3789947		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	93.9	70	130			
Surr: BFB	41		20.00		207	15	270			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: GW102587		RunNo: 102587							
Prep Date:	Analysis Date: 1/22/2024		SeqNo: 3789948		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	20		20.00		97.6	15	270			

Sample ID: 2401730-003ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: FY Raw	Batch ID: GW102587		RunNo: 102587							
Prep Date:	Analysis Date: 1/22/2024		SeqNo: 3790342		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	1.0	10.00	5.592	90.1	41.2	148			
Surr: BFB	860		400.0		214	15	270			

Sample ID: 2401730-003amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: FY Raw	Batch ID: GW102587		RunNo: 102587							
Prep Date:	Analysis Date: 1/22/2024		SeqNo: 3790343		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401730

08-Feb-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 2401730-003amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: FY Raw	Batch ID: GW102587	RunNo: 102587								
Prep Date:	Analysis Date: 1/22/2024	SeqNo: 3790343			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	14	1.0	10.00	5.592	88.3	41.2	148	1.21	20	
Surr: BFB	860		400.0		214	15	270	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401730

08-Feb-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 2401730-001adup	SampType: DUP	TestCode: EPA Method 8021B: Volatiles								
Client ID: FY OX Eff	Batch ID: BA102555	RunNo: 102555								
Prep Date:	Analysis Date: 1/19/2024	SeqNo: 3789040			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.25						0	20	
Benzene	6.6	0.10						2.38	20	
Toluene	6.2	0.10						0.912	20	
Ethylbenzene	0.47	0.10						1.31	20	
Xylenes, Total	2.0	0.20						1.07	20	
Surr: 4-Bromofluorobenzene	1.8		2.000		88.5	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401730

08-Feb-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 100ng lcs	SampType: LCS		TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch ID: R102718		RunNo: 102718							
Prep Date:	Analysis Date: 1/27/2024		SeqNo: 3795428		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.9	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Chlorobenzene	21	1.0	20.00	0	106	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	104	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	86.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.1	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	8.0		10.00		80.1	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R102718		RunNo: 102718							
Prep Date:	Analysis Date: 1/27/2024		SeqNo: 3795453		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401730

08-Feb-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R102718	RunNo: 102718								
Prep Date:	Analysis Date: 1/27/2024	SeqNo: 3795453			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401730

08-Feb-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R102718		RunNo: 102718							
Prep Date:	Analysis Date: 1/27/2024		SeqNo: 3795453		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		89.9	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	8.2		10.00		81.7	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: 100ng lcs	SampType: LCS		TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch ID: R102743		RunNo: 102743							
Prep Date:	Analysis Date: 1/30/2024		SeqNo: 3800707		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.2		10.00		91.7	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	8.3		10.00		83.3	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R102743		RunNo: 102743							
Prep Date:	Analysis Date: 1/30/2024		SeqNo: 3800710		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Butanone	ND	10								
Surr: 1,2-Dichloroethane-d4	8.5		10.00		84.7	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	7.8		10.00		77.6	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401730

08-Feb-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-80045	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 80045	RunNo: 102683								
Prep Date: 1/23/2024	Analysis Date: 1/25/2024	SeqNo: 3793521	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: LCS-80045	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 80045	RunNo: 102683								
Prep Date: 1/23/2024	Analysis Date: 1/25/2024	SeqNo: 3793522	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	994	50.0	1000	0	99.4	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Sample Log-In Check List

Client Name: Daniel B. Stephens & Work Order Number: 2401730 RcptNo: 1
Received By: Juan Rojas 1/18/2024 9:15:00 AM
Completed By: Cheyenne Cason 1/18/2024 9:20:07 AM
Reviewed By: [Signature]

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Client

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0° C Yes [checked] No [] NA []
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [checked] No [] NA []
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? Yes [checked] No []

of preserved bottles checked for pH: 2 (<2 or >12 unless noted)
Adjusted? No
Checked by: [Signature] 1/18/24

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

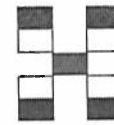
17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.

Chain-of-Custody Record

Client: **Daniel B Stephens & Associates**
 Mailing Address: **6020 Academy Rd NE, STE 100**
Albuquerque, NM 87109
 Phone #: **505-822-9400**
 email or Fax#: **gherrmann@geo-logic.com**
 QA/QC Package:
 Standard Level 4 (Full Validation)

Turn-Around Time:
 Standard Rush _____
 Project Name:
Former Y Station State Lead Site
 Project #:
DB18.1157
 Project Manager:
Grace Herrmann



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Accreditation: Az Compliance
 NELAC Other _____
 EDD (Type) _____

Sampler:
 On Ice: Yes No
 # of Coolers: **2** **yoqi**

Cooler Temp (including CF): **N/A**
 Container Type and #
 Preservative Type
0.3-0.3
HEAL No.
2401730

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
1/16/24	1358	Air	FY OX Eff	Tedlar Bag	none	001
	1410	Air	FY Comb Inf			002
	1524	AQ	FY RAW	Bottles/Vials	various	003
	1533	AQ	FY Treated		various	004
	1558	Air	FY DIA eff	Tedlar	none	005
			TRIP Blank			006

VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO and DRO - EPA method 8015B	Sulfate/Chloride - EPA method 200.7	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
						+	+
						+	+
+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+
						+	+
						+	+

Date: **1/18/24** Time: **09:15** Relinquished by:
 Received by: Via: _____ Date: **1/18/24** Time: **9:15**

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

February 15, 2024

Grace Herrmann

Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL: (505) 822-9400
FAX: (505) 822-8877

RE: Former Y

OrderNo.: 2402027

Dear Grace Herrmann:

Eurofins Environment Testing South Central, LLC received 5 sample(s) on 2/1/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402027

Date Reported: 2/15/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Comb Inf

Project: Former Y

Collection Date: 1/31/2024 9:39:00 AM

Lab ID: 2402027-001

Matrix: AIR

Received Date: 2/1/2024 9:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	6500	500		µg/L	100	2/6/2024 11:25:48 AM	GA0289C
Surr: BFB	101	15-412		%Rec	100	2/6/2024 11:25:48 AM	GA0289C
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	100	2/6/2024 11:25:48 AM	BA10289
Benzene	64	10		µg/L	100	2/6/2024 11:25:48 AM	BA10289
Toluene	260	10		µg/L	100	2/6/2024 11:25:48 AM	BA10289
Ethylbenzene	23	10		µg/L	100	2/6/2024 11:25:48 AM	BA10289
Xylenes, Total	110	20		µg/L	100	2/6/2024 11:25:48 AM	BA10289
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	100	2/6/2024 11:25:48 AM	BA10289

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402027

Date Reported: 2/15/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY OX_EFF

Project: Former Y

Collection Date: 1/31/2024 9:45:00 AM

Lab ID: 2402027-002

Matrix: AIR

Received Date: 2/1/2024 9:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	76	5.0		µg/L	1	2/6/2024 12:13:19 PM	GA0289C
Surr: BFB	121	15-412		%Rec	1	2/6/2024 12:13:19 PM	GA0289C
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	2/6/2024 12:13:19 PM	BA10289
Benzene	4.3	0.10		µg/L	1	2/6/2024 12:13:19 PM	BA10289
Toluene	6.5	0.10		µg/L	1	2/6/2024 12:13:19 PM	BA10289
Ethylbenzene	1.0	0.10		µg/L	1	2/6/2024 12:13:19 PM	BA10289
Xylenes, Total	6.1	0.20		µg/L	1	2/6/2024 12:13:19 PM	BA10289
Surr: 4-Bromofluorobenzene	89.3	70-130		%Rec	1	2/6/2024 12:13:19 PM	BA10289

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402027

Date Reported: 2/15/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated EFF

Project: Former Y

Collection Date: 1/31/2024 10:38:00 AM

Lab ID: 2402027-003

Matrix: GROUNDWA

Received Date: 2/1/2024 9:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: RBC
Chloride	78	10		mg/L	20	2/1/2024 5:16:52 PM	R102826
Nitrogen, Nitrate (As N)	1.9	0.10		mg/L	1	2/1/2024 5:03:59 PM	R102826
Sulfate	42	10		mg/L	20	2/1/2024 5:16:52 PM	R102826
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	505	50.0	*	mg/L	1	2/5/2024 9:55:00 AM	80230
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	1.2	0.095		µg/L	10	2/8/2024 9:18:53 AM	80200
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: JKU
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/8/2024 12:06:52 PM	80316
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	2/8/2024 12:06:52 PM	80316
Surr: DNOP	84.4	45.5-159		%Rec	1	2/8/2024 12:06:52 PM	80316
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	0.093	0.050		mg/L	1	2/6/2024 2:36:12 PM	GA0289C
Surr: BFB	109	15-270		%Rec	1	2/6/2024 2:36:12 PM	GA0289C
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	3.0	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Toluene	1.9	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Ethylbenzene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,2-Dichloroethane (EDC)	5.0	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,2-Dibromoethane (EDB)	1.2	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Naphthalene	ND	2.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1-Methylnaphthalene	ND	4.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
2-Methylnaphthalene	ND	4.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Acetone	16	10		µg/L	1	2/9/2024 12:31:00 AM	R102973
Bromobenzene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Bromodichloromethane	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Bromoform	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Bromomethane	ND	3.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
2-Butanone	ND	10		µg/L	1	2/9/2024 12:31:00 AM	R102973
Carbon disulfide	ND	10		µg/L	1	2/9/2024 12:31:00 AM	R102973
Carbon Tetrachloride	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Chlorobenzene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Chloroethane	ND	2.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Chloroform	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402027

Date Reported: 2/15/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated EFF

Project: Former Y

Collection Date: 1/31/2024 10:38:00 AM

Lab ID: 2402027-003

Matrix: GROUNDWA

Received Date: 2/1/2024 9:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Chloromethane	ND	3.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
2-Chlorotoluene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
4-Chlorotoluene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
cis-1,2-DCE	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Dibromochloromethane	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Dibromomethane	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,1-Dichloroethane	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,1-Dichloroethene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,2-Dichloropropane	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,3-Dichloropropane	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
2,2-Dichloropropane	ND	2.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,1-Dichloropropene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Hexachlorobutadiene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
2-Hexanone	ND	10		µg/L	1	2/9/2024 12:31:00 AM	R102973
Isopropylbenzene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
4-Isopropyltoluene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
4-Methyl-2-pentanone	ND	10		µg/L	1	2/9/2024 12:31:00 AM	R102973
Methylene Chloride	ND	3.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
n-Butylbenzene	ND	3.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
n-Propylbenzene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
sec-Butylbenzene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Styrene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
tert-Butylbenzene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
trans-1,2-DCE	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402027

Date Reported: 2/15/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated EFF

Project: Former Y

Collection Date: 1/31/2024 10:38:00 AM

Lab ID: 2402027-003

Matrix: GROUNDWA

Received Date: 2/1/2024 9:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Trichlorofluoromethane	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Vinyl chloride	ND	1.0		µg/L	1	2/9/2024 12:31:00 AM	R102973
Xylenes, Total	1.6	1.5		µg/L	1	2/9/2024 12:31:00 AM	R102973
Surr: 1,2-Dichloroethane-d4	99.1	70-130		%Rec	1	2/9/2024 12:31:00 AM	R102973
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	2/9/2024 12:31:00 AM	R102973
Surr: Dibromofluoromethane	101	70-130		%Rec	1	2/9/2024 12:31:00 AM	R102973
Surr: Toluene-d8	94.4	70-130		%Rec	1	2/9/2024 12:31:00 AM	R102973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402027

Date Reported: 2/15/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y

Collection Date: 1/31/2024 10:27:00 AM

Lab ID: 2402027-004

Matrix: GROUNDWA

Received Date: 2/1/2024 9:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: RBC
Chloride	81	10		mg/L	20	2/1/2024 5:42:35 PM	R102826
Nitrogen, Nitrate (As N)	2.0	0.10		mg/L	1	2/1/2024 5:29:43 PM	R102826
Sulfate	44	10		mg/L	20	2/1/2024 5:42:35 PM	R102826
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	494	50.0		mg/L	1	2/5/2024 9:55:00 AM	80230
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	12	0.95		µg/L	100	2/8/2024 9:35:47 AM	80200
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: JKU
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	2/8/2024 12:42:29 PM	80316
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	2/8/2024 12:42:29 PM	80316
Surr: DNOP	90.2	45.5-159		%Rec	1	2/8/2024 12:42:29 PM	80316
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	4.1	1.0		mg/L	20	2/6/2024 3:00:09 PM	GA0289C
Surr: BFB	103	15-270		%Rec	20	2/6/2024 3:00:09 PM	GA0289C
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	36	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Toluene	21	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Ethylbenzene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,2,4-Trimethylbenzene	1.0	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,2-Dichloroethane (EDC)	6.1	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Naphthalene	ND	2.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1-Methylnaphthalene	ND	4.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
2-Methylnaphthalene	ND	4.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Acetone	ND	10		µg/L	1	2/9/2024 12:56:00 AM	R102973
Bromobenzene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Bromodichloromethane	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Bromoform	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Bromomethane	ND	3.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
2-Butanone	ND	10		µg/L	1	2/9/2024 12:56:00 AM	R102973
Carbon disulfide	ND	10		µg/L	1	2/9/2024 12:56:00 AM	R102973
Carbon Tetrachloride	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Chlorobenzene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Chloroethane	ND	2.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Chloroform	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402027

Date Reported: 2/15/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y

Collection Date: 1/31/2024 10:27:00 AM

Lab ID: 2402027-004

Matrix: GROUNDWA

Received Date: 2/1/2024 9:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Chloromethane	ND	3.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
2-Chlorotoluene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
4-Chlorotoluene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
cis-1,2-DCE	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Dibromochloromethane	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Dibromomethane	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,1-Dichloroethane	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,1-Dichloroethene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,2-Dichloropropane	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,3-Dichloropropane	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
2,2-Dichloropropane	ND	2.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,1-Dichloropropene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Hexachlorobutadiene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
2-Hexanone	ND	10		µg/L	1	2/9/2024 12:56:00 AM	R102973
Isopropylbenzene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
4-Isopropyltoluene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
4-Methyl-2-pentanone	ND	10		µg/L	1	2/9/2024 12:56:00 AM	R102973
Methylene Chloride	ND	3.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
n-Butylbenzene	ND	3.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
n-Propylbenzene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
sec-Butylbenzene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Styrene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
tert-Butylbenzene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
trans-1,2-DCE	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402027

Date Reported: 2/15/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y

Collection Date: 1/31/2024 10:27:00 AM

Lab ID: 2402027-004

Matrix: GROUNDWA

Received Date: 2/1/2024 9:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Trichlorofluoromethane	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Vinyl chloride	ND	1.0		µg/L	1	2/9/2024 12:56:00 AM	R102973
Xylenes, Total	12	1.5		µg/L	1	2/9/2024 12:56:00 AM	R102973
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	2/9/2024 12:56:00 AM	R102973
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	2/9/2024 12:56:00 AM	R102973
Surr: Dibromofluoromethane	98.4	70-130		%Rec	1	2/9/2024 12:56:00 AM	R102973
Surr: Toluene-d8	98.5	70-130		%Rec	1	2/9/2024 12:56:00 AM	R102973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402027

Date Reported: 2/15/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y

Collection Date:

Lab ID: 2402027-005

Matrix: TRIP BLANK

Received Date: 2/1/2024 9:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.0094		µg/L	1	2/7/2024 4:27:52 PM	80200
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Toluene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Ethylbenzene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Naphthalene	ND	2.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1-Methylnaphthalene	ND	4.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
2-Methylnaphthalene	ND	4.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Acetone	ND	10		µg/L	1	2/9/2024 1:44:00 AM	R102973
Bromobenzene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Bromodichloromethane	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Bromoform	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Bromomethane	ND	3.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
2-Butanone	ND	10		µg/L	1	2/9/2024 1:44:00 AM	R102973
Carbon disulfide	ND	10		µg/L	1	2/9/2024 1:44:00 AM	R102973
Carbon Tetrachloride	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Chlorobenzene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Chloroethane	ND	2.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Chloroform	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Chloromethane	ND	3.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
2-Chlorotoluene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
4-Chlorotoluene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
cis-1,2-DCE	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Dibromochloromethane	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Dibromomethane	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,1-Dichloroethane	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,1-Dichloroethene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,2-Dichloropropane	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402027

Date Reported: 2/15/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y

Collection Date:

Lab ID: 2402027-005

Matrix: TRIP BLANK

Received Date: 2/1/2024 9:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
1,3-Dichloropropane	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
2,2-Dichloropropane	ND	2.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,1-Dichloropropene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Hexachlorobutadiene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
2-Hexanone	ND	10		µg/L	1	2/9/2024 1:44:00 AM	R102973
Isopropylbenzene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
4-Isopropyltoluene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
4-Methyl-2-pentanone	ND	10		µg/L	1	2/9/2024 1:44:00 AM	R102973
Methylene Chloride	ND	3.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
n-Butylbenzene	ND	3.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
n-Propylbenzene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
sec-Butylbenzene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Styrene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
tert-Butylbenzene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
trans-1,2-DCE	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Trichlorofluoromethane	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Vinyl chloride	ND	1.0		µg/L	1	2/9/2024 1:44:00 AM	R102973
Xylenes, Total	ND	1.5		µg/L	1	2/9/2024 1:44:00 AM	R102973
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	2/9/2024 1:44:00 AM	R102973
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/9/2024 1:44:00 AM	R102973
Surr: Dibromofluoromethane	101	70-130		%Rec	1	2/9/2024 1:44:00 AM	R102973
Surr: Toluene-d8	95.7	70-130		%Rec	1	2/9/2024 1:44:00 AM	R102973

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402027

15-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R102826	RunNo: 102826								
Prep Date:	Analysis Date: 2/1/2024	SeqNo: 3799295			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R102826	RunNo: 102826								
Prep Date:	Analysis Date: 2/1/2024	SeqNo: 3799296			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	4.8	0.50	5.000	0	96.6	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			
Sulfate	9.8	0.50	10.00	0	98.4	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402027

15-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: LCS-80200	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 80200	RunNo: 102989								
Prep Date: 2/7/2024	Analysis Date: 2/7/2024	SeqNo: 3806600	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.079	0.010	0.1000	0	79.1	70	130			

Sample ID: LCSD-80200	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 80200	RunNo: 102989								
Prep Date: 2/7/2024	Analysis Date: 2/7/2024	SeqNo: 3806601	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.087	0.010	0.1000	0	87.3	70	130	9.94	20	

Sample ID: MB-80200	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 80200	RunNo: 102989								
Prep Date: 2/7/2024	Analysis Date: 2/7/2024	SeqNo: 3806602	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: MB-80200	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 80200	RunNo: 102989								
Prep Date: 2/7/2024	Analysis Date: 2/7/2024	SeqNo: 3806622	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-80200	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 80200	RunNo: 102989								
Prep Date: 2/7/2024	Analysis Date: 2/7/2024	SeqNo: 3806623	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.081	0.010	0.1000	0	81.0	70	130			

Sample ID: LCSD-80200	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 80200	RunNo: 102989								
Prep Date: 2/7/2024	Analysis Date: 2/7/2024	SeqNo: 3806624	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.086	0.010	0.1000	0	86.4	70	130	6.49	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402027

15-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: MB-80316	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 80316	RunNo: 102974								
Prep Date: 2/7/2024	Analysis Date: 2/8/2024	SeqNo: 3805720	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.44		0.5000		87.8	45.5	159			

Sample ID: LCS-80316	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: LCSW	Batch ID: 80316	RunNo: 102974								
Prep Date: 2/7/2024	Analysis Date: 2/8/2024	SeqNo: 3805721	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.2	1.0	2.500	0	87.6	57	147			
Surr: DNOP	0.23		0.2500		92.8	45.5	159			

Sample ID: 2402027-003CMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: FY Treated EFF	Batch ID: 80316	RunNo: 102974								
Prep Date: 2/7/2024	Analysis Date: 2/8/2024	SeqNo: 3805723	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.4	1.0	2.500	0	94.5	32.8	161			
Surr: DNOP	0.23		0.2500		91.0	45.5	159			

Sample ID: 2402027-003CMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: FY Treated EFF	Batch ID: 80316	RunNo: 102974								
Prep Date: 2/7/2024	Analysis Date: 2/8/2024	SeqNo: 3805724	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.6	1.0	2.500	0	103	32.8	161	8.81	20	
Surr: DNOP	0.24		0.2500		94.9	45.5	159	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402027

15-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: 2402027-001adup	SampType: DUP		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: FY Comb Inf	Batch ID: GA02890		RunNo: 102890							
Prep Date:	Analysis Date: 2/6/2024		SeqNo: 3801985		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	6900	500						6.44	20	
Surr: BFB	210000		200000		106	15	412	0	0	

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Above Quantitation Range/Estimated Value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of standard limits. If undiluted results may be estimated. | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402027

15-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: GA02890		RunNo: 102890							
Prep Date:	Analysis Date: 2/6/2024		SeqNo: 3801978		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.46	0.050	0.5000	0	91.3	70	130			
Surr: BFB	42		20.00		212	15	270			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: GA02890		RunNo: 102890							
Prep Date:	Analysis Date: 2/6/2024		SeqNo: 3801979		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		97.2	15	270			

Sample ID: 2402027-003ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: FY Treated EFF	Batch ID: GA02890		RunNo: 102890							
Prep Date:	Analysis Date: 2/6/2024		SeqNo: 3803050		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.55	0.050	0.5000	0.09260	90.8	52.6	130			
Surr: BFB	46		20.00		229	15	270			

Sample ID: 2402027-003amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: FY Treated EFF	Batch ID: GA02890		RunNo: 102890							
Prep Date:	Analysis Date: 2/6/2024		SeqNo: 3803051		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.54	0.050	0.5000	0.09260	88.5	52.6	130	2.11	20	
Surr: BFB	45		20.00		225	15	270	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402027

15-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: 2402027-001adup	SampType: DUP	TestCode: EPA Method 8021B: Volatiles								
Client ID: FY Comb Inf	Batch ID: BA102890	RunNo: 102890								
Prep Date:	Analysis Date: 2/6/2024	SeqNo: 3801986 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	25						0	20	
Benzene	69	10						8.69	20	
Toluene	280	10						8.28	20	
Ethylbenzene	25	10						8.55	20	
Xylenes, Total	130	20						8.97	20	
Surr: 4-Bromofluorobenzene	170		200.0		87.0	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402027

15-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: R102973	RunNo: 102973								
Prep Date:	Analysis Date: 2/8/2024	SeqNo: 3805628	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.4	70	130			
Toluene	18	1.0	20.00	0	89.0	70	130			
Chlorobenzene	18	1.0	20.00	0	92.1	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	87.8	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	85.2	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.6		10.00		95.7	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R102973	RunNo: 102973								
Prep Date:	Analysis Date: 2/8/2024	SeqNo: 3805629	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402027

15-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R102973		RunNo: 102973							
Prep Date:	Analysis Date: 2/8/2024		SeqNo: 3805629		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402027

15-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R102973		RunNo: 102973							
Prep Date:	Analysis Date: 2/8/2024		SeqNo: 3805629		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		109	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.4	70	130			
Surr: Dibromofluoromethane	10		10.00		105	70	130			
Surr: Toluene-d8	9.4		10.00		93.5	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402027

15-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: MB-80230	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 80230	RunNo: 102861								
Prep Date: 2/2/2024	Analysis Date: 2/5/2024	SeqNo: 3800683	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: LCS-80230	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 80230	RunNo: 102861								
Prep Date: 2/2/2024	Analysis Date: 2/5/2024	SeqNo: 3800684	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	991	50.0	1000	0	99.1	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Sample Log-In Check List

Client Name: **Daniel B. Stephens &** Work Order Number: **2402027** RcptNo: **1**

Received By: **Joseph Alderette** 2/1/2024 9:32:00 AM *JA*

Completed By: **Cheyenne Cason** 2/1/2024 10:53:41 AM *CC*

Reviewed By: *[Signature]* 2/1/24

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: 2
(~~2~~ or >12 unless noted)

Adjusted? NO

Checked by: TMC 2/1/24

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____

By Whom: _____ Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.9	Good	Not Present	Morty		

Chain-of-Custody Record

Client: DBS/A

Mailing Address: 6000 Academy NE Suite 100
Albuquerque, NM 87109

Phone #: 505-822-9400

email or Fax#: gherrmann@geo-logic.com

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other _____

EDD (Type) _____

Turn-Around Time:
 Standard Rush _____

Project Name: Former Y

Project #: DB18.1157.0M024.2401

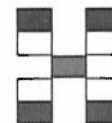
Project Manager: Mike Herrmann

Sampler: J. Fisher / B. Constant

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 4.8 ± 0.1 = 4.9 (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015 (GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	TPH: 8015B GRO	Sulfate / Chloride EPA 300.0	NITRATE (as N) - EPA 300.0	TDS - SM2510C
11/31/24	0939	Air	FY COMB INF	1-Temp Bag	—	001	X	X												
	0945		FY OX-EFF			002	X	X												
	10:11		FY DTA EFF				X	X												
	1038	GW	FY Treated EFF	Varies	Varies	003				X				X			X	X	X	X
	1021		FY Raw			004				X				X			X	X	X	X
			Trip Blank			005				X				X			X	X	X	X

Date: 2/1/24 Time: 9:32 Relinquished by: [Signature]

Date: 2-1-24 Time: 9:32 Received by: [Signature] Via: oo

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

January 05, 2024

Grace Herrmann

Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL: (505) 822-9400
FAX: (505) 822-8877

RE: Former Y

OrderNo.: 2312916

Dear Grace Herrmann:

Eurofins Environment Testing South Central, LLC received 17 sample(s) on 12/15/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-17 20231214

Project: Former Y

Collection Date: 12/14/2023 9:13:00 AM

Lab ID: 2312916-001

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	ND	0.0094		µg/L	1	12/21/2023 6:57:53 AM	79463
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Toluene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Ethylbenzene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Naphthalene	ND	2.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1-Methylnaphthalene	ND	4.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
2-Methylnaphthalene	ND	4.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Acetone	ND	10		µg/L	1	12/27/2023 11:00:06 AM	R102095
Bromobenzene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Bromodichloromethane	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Bromoform	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Bromomethane	ND	3.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
2-Butanone	ND	10		µg/L	1	12/27/2023 11:00:06 AM	R102095
Carbon disulfide	ND	10		µg/L	1	12/27/2023 11:00:06 AM	R102095
Carbon Tetrachloride	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Chlorobenzene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Chloroethane	ND	2.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Chloroform	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Chloromethane	ND	3.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
2-Chlorotoluene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
4-Chlorotoluene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
cis-1,2-DCE	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Dibromochloromethane	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Dibromomethane	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,1-Dichloroethane	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,1-Dichloroethene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,2-Dichloropropane	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-17 20231214

Project: Former Y

Collection Date: 12/14/2023 9:13:00 AM

Lab ID: 2312916-001

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
1,3-Dichloropropane	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
2,2-Dichloropropane	ND	2.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,1-Dichloropropene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Hexachlorobutadiene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
2-Hexanone	ND	10		µg/L	1	12/27/2023 11:00:06 AM	R102095
Isopropylbenzene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
4-Isopropyltoluene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
4-Methyl-2-pentanone	ND	10		µg/L	1	12/27/2023 11:00:06 AM	R102095
Methylene Chloride	ND	3.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
n-Butylbenzene	ND	3.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
n-Propylbenzene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
sec-Butylbenzene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Styrene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
tert-Butylbenzene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
trans-1,2-DCE	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Trichlorofluoromethane	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Vinyl chloride	ND	1.0		µg/L	1	12/27/2023 11:00:06 AM	R102095
Xylenes, Total	ND	1.5		µg/L	1	12/27/2023 11:00:06 AM	R102095
Surr: 1,2-Dichloroethane-d4	96.0	70-130		%Rec	1	12/27/2023 11:00:06 AM	R102095
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	12/27/2023 11:00:06 AM	R102095
Surr: Dibromofluoromethane	85.5	70-130		%Rec	1	12/27/2023 11:00:06 AM	R102095
Surr: Toluene-d8	103	70-130		%Rec	1	12/27/2023 11:00:06 AM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-4 20231214

Project: Former Y

Collection Date: 12/14/2023 8:51:00 AM

Lab ID: 2312916-002

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	ND	0.0094		µg/L	1	12/21/2023 7:14:44 AM	79463
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Benzene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Toluene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Ethylbenzene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Naphthalene	ND	2.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1-Methylnaphthalene	ND	4.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
2-Methylnaphthalene	ND	4.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Acetone	ND	10		µg/L	1	12/24/2023 8:29:52 PM	R102069
Bromobenzene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Bromodichloromethane	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Bromoform	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Bromomethane	ND	3.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
2-Butanone	ND	10		µg/L	1	12/24/2023 8:29:52 PM	R102069
Carbon disulfide	ND	10		µg/L	1	12/24/2023 8:29:52 PM	R102069
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4-Chlorotoluene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
cis-1,2-DCE	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Dibromochloromethane	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Dibromomethane	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,1-Dichloroethane	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,1-Dichloroethene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,2-Dichloropropane	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

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	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

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2,2-Dichloropropane	ND	2.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,1-Dichloropropene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Hexachlorobutadiene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
2-Hexanone	ND	10		µg/L	1	12/24/2023 8:29:52 PM	R102069
Isopropylbenzene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
4-Isopropyltoluene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
4-Methyl-2-pentanone	ND	10		µg/L	1	12/24/2023 8:29:52 PM	R102069
Methylene Chloride	ND	3.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
n-Butylbenzene	ND	3.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
n-Propylbenzene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
sec-Butylbenzene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Styrene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
tert-Butylbenzene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
trans-1,2-DCE	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Trichlorofluoromethane	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Vinyl chloride	ND	1.0		µg/L	1	12/24/2023 8:29:52 PM	R102069
Xylenes, Total	ND	1.5		µg/L	1	12/24/2023 8:29:52 PM	R102069
Surr: 1,2-Dichloroethane-d4	94.6	70-130		%Rec	1	12/24/2023 8:29:52 PM	R102069
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/24/2023 8:29:52 PM	R102069
Surr: Dibromofluoromethane	85.1	70-130		%Rec	1	12/24/2023 8:29:52 PM	R102069
Surr: Toluene-d8	103	70-130		%Rec	1	12/24/2023 8:29:52 PM	R102069

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-7 20231214

Project: Former Y

Collection Date: 12/14/2023 8:30:00 AM

Lab ID: 2312916-003

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	0.12	0.0094		µg/L	1	12/21/2023 7:31:34 AM	79463
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Benzene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
Toluene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
Ethylbenzene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,2,4-Trimethylbenzene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,3,5-Trimethylbenzene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,2-Dichloroethane (EDC)	43	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,2-Dibromoethane (EDB)	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
Naphthalene	ND	10		µg/L	5	12/24/2023 9:24:38 PM	R102069
1-Methylnaphthalene	ND	20		µg/L	5	12/24/2023 9:24:38 PM	R102069
2-Methylnaphthalene	ND	20		µg/L	5	12/24/2023 9:24:38 PM	R102069
Acetone	ND	50		µg/L	5	12/24/2023 9:24:38 PM	R102069
Bromobenzene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
Bromodichloromethane	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
Bromoform	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
Bromomethane	ND	15		µg/L	5	12/24/2023 9:24:38 PM	R102069
2-Butanone	ND	50		µg/L	5	12/24/2023 9:24:38 PM	R102069
Carbon disulfide	ND	50		µg/L	5	12/24/2023 9:24:38 PM	R102069
Carbon Tetrachloride	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
Chlorobenzene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
Chloroethane	ND	10		µg/L	5	12/24/2023 9:24:38 PM	R102069
Chloroform	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
Chloromethane	ND	15		µg/L	5	12/24/2023 9:24:38 PM	R102069
2-Chlorotoluene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
4-Chlorotoluene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
cis-1,2-DCE	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	12/24/2023 9:24:38 PM	R102069
Dibromochloromethane	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
Dibromomethane	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,2-Dichlorobenzene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,3-Dichlorobenzene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,4-Dichlorobenzene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
Dichlorodifluoromethane	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,1-Dichloroethane	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,1-Dichloroethene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,2-Dichloropropane	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-7 20231214

Project: Former Y

Collection Date: 12/14/2023 8:30:00 AM

Lab ID: 2312916-003

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: RAA
1,3-Dichloropropane	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
2,2-Dichloropropane	ND	10		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,1-Dichloropropene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
Hexachlorobutadiene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
2-Hexanone	ND	50		µg/L	5	12/24/2023 9:24:38 PM	R102069
Isopropylbenzene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
4-Isopropyltoluene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
4-Methyl-2-pentanone	ND	50		µg/L	5	12/24/2023 9:24:38 PM	R102069
Methylene Chloride	ND	15		µg/L	5	12/24/2023 9:24:38 PM	R102069
n-Butylbenzene	ND	15		µg/L	5	12/24/2023 9:24:38 PM	R102069
n-Propylbenzene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
sec-Butylbenzene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
Styrene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
tert-Butylbenzene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,1,2,2-Tetrachloroethane	ND	10		µg/L	5	12/24/2023 9:24:38 PM	R102069
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
trans-1,2-DCE	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,2,4-Trichlorobenzene	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,1,1-Trichloroethane	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,1,2-Trichloroethane	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
Trichloroethene (TCE)	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
Trichlorofluoromethane	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
1,2,3-Trichloropropane	ND	10		µg/L	5	12/24/2023 9:24:38 PM	R102069
Vinyl chloride	ND	5.0		µg/L	5	12/24/2023 9:24:38 PM	R102069
Xylenes, Total	ND	7.5		µg/L	5	12/24/2023 9:24:38 PM	R102069
Surr: 1,2-Dichloroethane-d4	99.1	70-130		%Rec	5	12/24/2023 9:24:38 PM	R102069
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	5	12/24/2023 9:24:38 PM	R102069
Surr: Dibromofluoromethane	85.5	70-130		%Rec	5	12/24/2023 9:24:38 PM	R102069
Surr: Toluene-d8	104	70-130		%Rec	5	12/24/2023 9:24:38 PM	R102069

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-11 20231212

Project: Former Y

Collection Date: 12/12/2023 4:14:00 PM

Lab ID: 2312916-004

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	1.2	0.095		µg/L	10	12/21/2023 12:01:04 PM	79463
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Benzene	3200	200		µg/L	200	12/24/2023 5:18:20 PM	R102069
Toluene	140	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
Ethylbenzene	150	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,2,4-Trimethylbenzene	160	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,3,5-Trimethylbenzene	51	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,2-Dichloroethane (EDC)	220	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
Naphthalene	51	40		µg/L	20	12/24/2023 5:45:45 PM	R102069
1-Methylnaphthalene	ND	80		µg/L	20	12/24/2023 5:45:45 PM	R102069
2-Methylnaphthalene	ND	80		µg/L	20	12/24/2023 5:45:45 PM	R102069
Acetone	ND	200		µg/L	20	12/24/2023 5:45:45 PM	R102069
Bromobenzene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
Bromodichloromethane	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
Bromoform	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
Bromomethane	ND	60		µg/L	20	12/24/2023 5:45:45 PM	R102069
2-Butanone	480	200		µg/L	20	12/24/2023 5:45:45 PM	R102069
Carbon disulfide	ND	200		µg/L	20	12/24/2023 5:45:45 PM	R102069
Carbon Tetrachloride	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
Chlorobenzene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
Chloroethane	ND	40		µg/L	20	12/24/2023 5:45:45 PM	R102069
Chloroform	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
Chloromethane	ND	60		µg/L	20	12/24/2023 5:45:45 PM	R102069
2-Chlorotoluene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
4-Chlorotoluene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
cis-1,2-DCE	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
cis-1,3-Dichloropropene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	12/24/2023 5:45:45 PM	R102069
Dibromochloromethane	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
Dibromomethane	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,2-Dichlorobenzene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,3-Dichlorobenzene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,4-Dichlorobenzene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
Dichlorodifluoromethane	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,1-Dichloroethane	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,1-Dichloroethene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,2-Dichloropropane	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-11 20231212

Project: Former Y

Collection Date: 12/12/2023 4:14:00 PM

Lab ID: 2312916-004

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: RAA
1,3-Dichloropropane	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
2,2-Dichloropropane	ND	40		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,1-Dichloropropene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
Hexachlorobutadiene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
2-Hexanone	ND	200		µg/L	20	12/24/2023 5:45:45 PM	R102069
Isopropylbenzene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
4-Isopropyltoluene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
4-Methyl-2-pentanone	ND	200		µg/L	20	12/24/2023 5:45:45 PM	R102069
Methylene Chloride	ND	60		µg/L	20	12/24/2023 5:45:45 PM	R102069
n-Butylbenzene	ND	60		µg/L	20	12/24/2023 5:45:45 PM	R102069
n-Propylbenzene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
sec-Butylbenzene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
Styrene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
tert-Butylbenzene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	12/24/2023 5:45:45 PM	R102069
Tetrachloroethene (PCE)	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
trans-1,2-DCE	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
trans-1,3-Dichloropropene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,2,3-Trichlorobenzene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,2,4-Trichlorobenzene	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,1,1-Trichloroethane	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,1,2-Trichloroethane	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
Trichloroethene (TCE)	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
Trichlorofluoromethane	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
1,2,3-Trichloropropane	ND	40		µg/L	20	12/24/2023 5:45:45 PM	R102069
Vinyl chloride	ND	20		µg/L	20	12/24/2023 5:45:45 PM	R102069
Xylenes, Total	910	30		µg/L	20	12/24/2023 5:45:45 PM	R102069
Surr: 1,2-Dichloroethane-d4	98.5	70-130		%Rec	20	12/24/2023 5:45:45 PM	R102069
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	20	12/24/2023 5:45:45 PM	R102069
Surr: Dibromofluoromethane	86.0	70-130		%Rec	20	12/24/2023 5:45:45 PM	R102069
Surr: Toluene-d8	102	70-130		%Rec	20	12/24/2023 5:45:45 PM	R102069

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-15 20231214

Project: Former Y

Collection Date: 12/14/2023 8:09:00 AM

Lab ID: 2312916-005

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	0.028	0.0095		µg/L	1	12/21/2023 8:05:13 AM	79463
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Benzene	11	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Toluene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Ethylbenzene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Naphthalene	ND	2.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1-Methylnaphthalene	ND	4.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
2-Methylnaphthalene	ND	4.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Acetone	ND	10		µg/L	1	12/24/2023 10:46:22 PM	R102069
Bromobenzene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Bromodichloromethane	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Bromoform	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Bromomethane	ND	3.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
2-Butanone	ND	10		µg/L	1	12/24/2023 10:46:22 PM	R102069
Carbon disulfide	ND	10		µg/L	1	12/24/2023 10:46:22 PM	R102069
Carbon Tetrachloride	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Chlorobenzene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Chloroethane	ND	2.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Chloroform	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Chloromethane	ND	3.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
2-Chlorotoluene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
4-Chlorotoluene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
cis-1,2-DCE	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Dibromochloromethane	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Dibromomethane	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,1-Dichloroethane	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,1-Dichloroethene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,2-Dichloropropane	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-15 20231214

Project: Former Y

Collection Date: 12/14/2023 8:09:00 AM

Lab ID: 2312916-005

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: RAA
1,3-Dichloropropane	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
2,2-Dichloropropane	ND	2.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,1-Dichloropropene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Hexachlorobutadiene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
2-Hexanone	ND	10		µg/L	1	12/24/2023 10:46:22 PM	R102069
Isopropylbenzene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
4-Isopropyltoluene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
4-Methyl-2-pentanone	ND	10		µg/L	1	12/24/2023 10:46:22 PM	R102069
Methylene Chloride	ND	3.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
n-Butylbenzene	ND	3.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
n-Propylbenzene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
sec-Butylbenzene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Styrene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
tert-Butylbenzene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
trans-1,2-DCE	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Trichlorofluoromethane	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Vinyl chloride	ND	1.0		µg/L	1	12/24/2023 10:46:22 PM	R102069
Xylenes, Total	ND	1.5		µg/L	1	12/24/2023 10:46:22 PM	R102069
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	12/24/2023 10:46:22 PM	R102069
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	12/24/2023 10:46:22 PM	R102069
Surr: Dibromofluoromethane	86.8	70-130		%Rec	1	12/24/2023 10:46:22 PM	R102069
Surr: Toluene-d8	103	70-130		%Rec	1	12/24/2023 10:46:22 PM	R102069

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-14 20231214

Project: Former Y

Collection Date: 12/14/2023 7:45:00 AM

Lab ID: 2312916-006

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	ND	0.0094		µg/L	1	12/21/2023 8:22:02 AM	79463
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Benzene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Toluene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Ethylbenzene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Naphthalene	ND	2.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1-Methylnaphthalene	ND	4.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
2-Methylnaphthalene	ND	4.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Acetone	ND	10		µg/L	1	12/24/2023 11:13:54 PM	R102069
Bromobenzene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Bromodichloromethane	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Bromoform	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Bromomethane	ND	3.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
2-Butanone	ND	10		µg/L	1	12/24/2023 11:13:54 PM	R102069
Carbon disulfide	ND	10		µg/L	1	12/24/2023 11:13:54 PM	R102069
Carbon Tetrachloride	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Chlorobenzene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Chloroethane	ND	2.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Chloroform	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Chloromethane	ND	3.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
2-Chlorotoluene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
4-Chlorotoluene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
cis-1,2-DCE	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Dibromochloromethane	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Dibromomethane	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,1-Dichloroethane	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,1-Dichloroethene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,2-Dichloropropane	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-14 20231214

Project: Former Y

Collection Date: 12/14/2023 7:45:00 AM

Lab ID: 2312916-006

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: RAA
1,3-Dichloropropane	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
2,2-Dichloropropane	ND	2.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,1-Dichloropropene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Hexachlorobutadiene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
2-Hexanone	ND	10		µg/L	1	12/24/2023 11:13:54 PM	R102069
Isopropylbenzene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
4-Isopropyltoluene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
4-Methyl-2-pentanone	ND	10		µg/L	1	12/24/2023 11:13:54 PM	R102069
Methylene Chloride	ND	3.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
n-Butylbenzene	ND	3.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
n-Propylbenzene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
sec-Butylbenzene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Styrene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
tert-Butylbenzene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
trans-1,2-DCE	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Trichlorofluoromethane	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Vinyl chloride	ND	1.0		µg/L	1	12/24/2023 11:13:54 PM	R102069
Xylenes, Total	ND	1.5		µg/L	1	12/24/2023 11:13:54 PM	R102069
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	12/24/2023 11:13:54 PM	R102069
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	12/24/2023 11:13:54 PM	R102069
Surr: Dibromofluoromethane	89.8	70-130		%Rec	1	12/24/2023 11:13:54 PM	R102069
Surr: Toluene-d8	105	70-130		%Rec	1	12/24/2023 11:13:54 PM	R102069

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-1 20231213

Project: Former Y

Collection Date: 12/13/2023 9:40:00 AM

Lab ID: 2312916-007

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	1.1	0.095		µg/L	10	12/21/2023 12:34:53 PM	79463
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Toluene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Ethylbenzene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,2,4-Trimethylbenzene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,3,5-Trimethylbenzene	3.2	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,2-Dichloroethane (EDC)	48	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Naphthalene	ND	4.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1-Methylnaphthalene	ND	8.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
2-Methylnaphthalene	ND	8.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Acetone	ND	20		µg/L	2	12/27/2023 3:34:49 PM	R102095
Bromobenzene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Bromodichloromethane	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Bromoform	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Bromomethane	ND	6.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
2-Butanone	ND	20		µg/L	2	12/27/2023 3:34:49 PM	R102095
Carbon disulfide	ND	20		µg/L	2	12/27/2023 3:34:49 PM	R102095
Carbon Tetrachloride	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Chlorobenzene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Chloroethane	ND	4.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Chloroform	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Chloromethane	ND	6.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
2-Chlorotoluene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
4-Chlorotoluene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
cis-1,2-DCE	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Dibromochloromethane	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Dibromomethane	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,2-Dichlorobenzene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,3-Dichlorobenzene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,4-Dichlorobenzene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Dichlorodifluoromethane	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,1-Dichloroethane	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,1-Dichloroethene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,2-Dichloropropane	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-1 20231213

Project: Former Y

Collection Date: 12/13/2023 9:40:00 AM

Lab ID: 2312916-007

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
1,3-Dichloropropane	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
2,2-Dichloropropane	ND	4.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,1-Dichloropropene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Hexachlorobutadiene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
2-Hexanone	ND	20		µg/L	2	12/27/2023 3:34:49 PM	R102095
Isopropylbenzene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
4-Isopropyltoluene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
4-Methyl-2-pentanone	ND	20		µg/L	2	12/27/2023 3:34:49 PM	R102095
Methylene Chloride	ND	6.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
n-Butylbenzene	ND	6.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
n-Propylbenzene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
sec-Butylbenzene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Styrene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
tert-Butylbenzene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
trans-1,2-DCE	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,1,1-Trichloroethane	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,1,2-Trichloroethane	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Trichloroethene (TCE)	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Trichlorofluoromethane	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
1,2,3-Trichloropropane	ND	4.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Vinyl chloride	ND	2.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Xylenes, Total	6.0	3.0		µg/L	2	12/27/2023 3:34:49 PM	R102095
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	2	12/27/2023 3:34:49 PM	R102095
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	2	12/27/2023 3:34:49 PM	R102095
Surr: Dibromofluoromethane	90.9	70-130		%Rec	2	12/27/2023 3:34:49 PM	R102095
Surr: Toluene-d8	102	70-130		%Rec	2	12/27/2023 3:34:49 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-3 20231213

Project: Former Y

Collection Date: 12/13/2023 9:05:00 AM

Lab ID: 2312916-008

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	8.0	0.47		µg/L	50	12/21/2023 5:08:36 PM	79463
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	320	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
Toluene	330	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
Ethylbenzene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,2,4-Trimethylbenzene	31	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,3,5-Trimethylbenzene	27	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,2-Dichloroethane (EDC)	83	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
Naphthalene	ND	40		µg/L	20	12/27/2023 2:39:48 PM	R102095
1-Methylnaphthalene	ND	80		µg/L	20	12/27/2023 2:39:48 PM	R102095
2-Methylnaphthalene	ND	80		µg/L	20	12/27/2023 2:39:48 PM	R102095
Acetone	ND	200		µg/L	20	12/27/2023 2:39:48 PM	R102095
Bromobenzene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
Bromodichloromethane	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
Bromoform	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
Bromomethane	ND	60		µg/L	20	12/27/2023 2:39:48 PM	R102095
2-Butanone	ND	200		µg/L	20	12/27/2023 2:39:48 PM	R102095
Carbon disulfide	ND	200		µg/L	20	12/27/2023 2:39:48 PM	R102095
Carbon Tetrachloride	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
Chlorobenzene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
Chloroethane	ND	40		µg/L	20	12/27/2023 2:39:48 PM	R102095
Chloroform	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
Chloromethane	ND	60		µg/L	20	12/27/2023 2:39:48 PM	R102095
2-Chlorotoluene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
4-Chlorotoluene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
cis-1,2-DCE	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
cis-1,3-Dichloropropene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	12/27/2023 2:39:48 PM	R102095
Dibromochloromethane	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
Dibromomethane	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,2-Dichlorobenzene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,3-Dichlorobenzene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,4-Dichlorobenzene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
Dichlorodifluoromethane	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,1-Dichloroethane	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,1-Dichloroethene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,2-Dichloropropane	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-3 20231213

Project: Former Y

Collection Date: 12/13/2023 9:05:00 AM

Lab ID: 2312916-008

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
1,3-Dichloropropane	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
2,2-Dichloropropane	ND	40		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,1-Dichloropropene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
Hexachlorobutadiene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
2-Hexanone	ND	200		µg/L	20	12/27/2023 2:39:48 PM	R102095
Isopropylbenzene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
4-Isopropyltoluene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
4-Methyl-2-pentanone	ND	200		µg/L	20	12/27/2023 2:39:48 PM	R102095
Methylene Chloride	ND	60		µg/L	20	12/27/2023 2:39:48 PM	R102095
n-Butylbenzene	ND	60		µg/L	20	12/27/2023 2:39:48 PM	R102095
n-Propylbenzene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
sec-Butylbenzene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
Styrene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
tert-Butylbenzene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	12/27/2023 2:39:48 PM	R102095
Tetrachloroethene (PCE)	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
trans-1,2-DCE	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
trans-1,3-Dichloropropene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,2,3-Trichlorobenzene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,2,4-Trichlorobenzene	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,1,1-Trichloroethane	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,1,2-Trichloroethane	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
Trichloroethene (TCE)	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
Trichlorofluoromethane	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
1,2,3-Trichloropropane	ND	40		µg/L	20	12/27/2023 2:39:48 PM	R102095
Vinyl chloride	ND	20		µg/L	20	12/27/2023 2:39:48 PM	R102095
Xylenes, Total	250	30		µg/L	20	12/27/2023 2:39:48 PM	R102095
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	20	12/27/2023 2:39:48 PM	R102095
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	20	12/27/2023 2:39:48 PM	R102095
Surr: Dibromofluoromethane	88.1	70-130		%Rec	20	12/27/2023 2:39:48 PM	R102095
Surr: Toluene-d8	98.4	70-130		%Rec	20	12/27/2023 2:39:48 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-2 20231213

Project: Former Y

Collection Date: 12/13/2023 8:20:00 AM

Lab ID: 2312916-009

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	12	0.95		µg/L	100	12/21/2023 5:25:26 PM	79463
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	41	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
Toluene	73	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
Ethylbenzene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,2,4-Trimethylbenzene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,3,5-Trimethylbenzene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,2-Dichloroethane (EDC)	20	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
Naphthalene	ND	40		µg/L	20	12/27/2023 1:44:51 PM	R102095
1-Methylnaphthalene	ND	80		µg/L	20	12/27/2023 1:44:51 PM	R102095
2-Methylnaphthalene	ND	80		µg/L	20	12/27/2023 1:44:51 PM	R102095
Acetone	ND	200		µg/L	20	12/27/2023 1:44:51 PM	R102095
Bromobenzene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
Bromodichloromethane	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
Bromoform	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
Bromomethane	ND	60		µg/L	20	12/27/2023 1:44:51 PM	R102095
2-Butanone	ND	200		µg/L	20	12/27/2023 1:44:51 PM	R102095
Carbon disulfide	ND	200		µg/L	20	12/27/2023 1:44:51 PM	R102095
Carbon Tetrachloride	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
Chlorobenzene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
Chloroethane	ND	40		µg/L	20	12/27/2023 1:44:51 PM	R102095
Chloroform	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
Chloromethane	ND	60		µg/L	20	12/27/2023 1:44:51 PM	R102095
2-Chlorotoluene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
4-Chlorotoluene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
cis-1,2-DCE	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
cis-1,3-Dichloropropene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	12/27/2023 1:44:51 PM	R102095
Dibromochloromethane	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
Dibromomethane	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,2-Dichlorobenzene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,3-Dichlorobenzene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,4-Dichlorobenzene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
Dichlorodifluoromethane	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,1-Dichloroethane	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,1-Dichloroethene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,2-Dichloropropane	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-2 20231213

Project: Former Y

Collection Date: 12/13/2023 8:20:00 AM

Lab ID: 2312916-009

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
1,3-Dichloropropane	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
2,2-Dichloropropane	ND	40		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,1-Dichloropropene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
Hexachlorobutadiene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
2-Hexanone	ND	200		µg/L	20	12/27/2023 1:44:51 PM	R102095
Isopropylbenzene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
4-Isopropyltoluene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
4-Methyl-2-pentanone	ND	200		µg/L	20	12/27/2023 1:44:51 PM	R102095
Methylene Chloride	ND	60		µg/L	20	12/27/2023 1:44:51 PM	R102095
n-Butylbenzene	ND	60		µg/L	20	12/27/2023 1:44:51 PM	R102095
n-Propylbenzene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
sec-Butylbenzene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
Styrene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
tert-Butylbenzene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	12/27/2023 1:44:51 PM	R102095
Tetrachloroethene (PCE)	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
trans-1,2-DCE	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
trans-1,3-Dichloropropene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,2,3-Trichlorobenzene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,2,4-Trichlorobenzene	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,1,1-Trichloroethane	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,1,2-Trichloroethane	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
Trichloroethene (TCE)	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
Trichlorofluoromethane	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
1,2,3-Trichloropropane	ND	40		µg/L	20	12/27/2023 1:44:51 PM	R102095
Vinyl chloride	ND	20		µg/L	20	12/27/2023 1:44:51 PM	R102095
Xylenes, Total	120	30		µg/L	20	12/27/2023 1:44:51 PM	R102095
Surr: 1,2-Dichloroethane-d4	98.6	70-130		%Rec	20	12/27/2023 1:44:51 PM	R102095
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	20	12/27/2023 1:44:51 PM	R102095
Surr: Dibromofluoromethane	84.9	70-130		%Rec	20	12/27/2023 1:44:51 PM	R102095
Surr: Toluene-d8	103	70-130		%Rec	20	12/27/2023 1:44:51 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: RW-4 20231213

Project: Former Y

Collection Date: 12/13/2023 7:58:00 AM

Lab ID: 2312916-010

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	47	4.7		µg/L	500	12/21/2023 1:25:31 PM	79463
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	2000	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
Toluene	2800	20	E	µg/L	20	12/27/2023 1:17:20 PM	R102095
Ethylbenzene	160	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,2,4-Trimethylbenzene	160	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,3,5-Trimethylbenzene	51	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,2-Dichloroethane (EDC)	230	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,2-Dibromoethane (EDB)	63	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
Naphthalene	58	40		µg/L	20	12/27/2023 1:17:20 PM	R102095
1-Methylnaphthalene	ND	80		µg/L	20	12/27/2023 1:17:20 PM	R102095
2-Methylnaphthalene	ND	80		µg/L	20	12/27/2023 1:17:20 PM	R102095
Acetone	ND	200		µg/L	20	12/27/2023 1:17:20 PM	R102095
Bromobenzene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
Bromodichloromethane	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
Bromoform	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
Bromomethane	ND	60		µg/L	20	12/27/2023 1:17:20 PM	R102095
2-Butanone	ND	200		µg/L	20	12/27/2023 1:17:20 PM	R102095
Carbon disulfide	ND	200		µg/L	20	12/27/2023 1:17:20 PM	R102095
Carbon Tetrachloride	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
Chlorobenzene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
Chloroethane	ND	40		µg/L	20	12/27/2023 1:17:20 PM	R102095
Chloroform	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
Chloromethane	ND	60		µg/L	20	12/27/2023 1:17:20 PM	R102095
2-Chlorotoluene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
4-Chlorotoluene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
cis-1,2-DCE	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
cis-1,3-Dichloropropene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	12/27/2023 1:17:20 PM	R102095
Dibromochloromethane	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
Dibromomethane	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,2-Dichlorobenzene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,3-Dichlorobenzene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,4-Dichlorobenzene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
Dichlorodifluoromethane	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,1-Dichloroethane	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,1-Dichloroethene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,2-Dichloropropane	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
1,3-Dichloropropane	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
2,2-Dichloropropane	ND	40		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,1-Dichloropropene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
Hexachlorobutadiene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
2-Hexanone	210	200		µg/L	20	12/27/2023 1:17:20 PM	R102095
Isopropylbenzene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
4-Isopropyltoluene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
4-Methyl-2-pentanone	ND	200		µg/L	20	12/27/2023 1:17:20 PM	R102095
Methylene Chloride	ND	60		µg/L	20	12/27/2023 1:17:20 PM	R102095
n-Butylbenzene	ND	60		µg/L	20	12/27/2023 1:17:20 PM	R102095
n-Propylbenzene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
sec-Butylbenzene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
Styrene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
tert-Butylbenzene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	12/27/2023 1:17:20 PM	R102095
Tetrachloroethene (PCE)	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
trans-1,2-DCE	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
trans-1,3-Dichloropropene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,2,3-Trichlorobenzene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,2,4-Trichlorobenzene	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,1,1-Trichloroethane	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,1,2-Trichloroethane	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
Trichloroethene (TCE)	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
Trichlorofluoromethane	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
1,2,3-Trichloropropane	ND	40		µg/L	20	12/27/2023 1:17:20 PM	R102095
Vinyl chloride	ND	20		µg/L	20	12/27/2023 1:17:20 PM	R102095
Xylenes, Total	1400	30		µg/L	20	12/27/2023 1:17:20 PM	R102095
Surr: 1,2-Dichloroethane-d4	96.4	70-130		%Rec	20	12/27/2023 1:17:20 PM	R102095
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	20	12/27/2023 1:17:20 PM	R102095
Surr: Dibromofluoromethane	83.3	70-130		%Rec	20	12/27/2023 1:17:20 PM	R102095
Surr: Toluene-d8	102	70-130		%Rec	20	12/27/2023 1:17:20 PM	R102095

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	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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Analytical Report

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Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-7R 20231213

Project: Former Y

Collection Date: 12/13/2023 7:40:00 AM

Lab ID: 2312916-011

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	7.3	0.38		µg/L	40	12/21/2023 1:42:29 PM	79463
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	1700	2.0	E	µg/L	2	12/27/2023 12:49:48 PM	R102095
Toluene	460	2.0	E	µg/L	2	12/27/2023 12:49:48 PM	R102095
Ethylbenzene	54	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,2,4-Trimethylbenzene	59	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,3,5-Trimethylbenzene	33	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,2-Dichloroethane (EDC)	210	2.0	E	µg/L	2	12/27/2023 12:49:48 PM	R102095
1,2-Dibromoethane (EDB)	10	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Naphthalene	30	4.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1-Methylnaphthalene	ND	8.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
2-Methylnaphthalene	ND	8.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Acetone	ND	20		µg/L	2	12/27/2023 12:49:48 PM	R102095
Bromobenzene	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Bromodichloromethane	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Bromoform	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Bromomethane	ND	6.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
2-Butanone	ND	20		µg/L	2	12/27/2023 12:49:48 PM	R102095
Carbon disulfide	ND	20		µg/L	2	12/27/2023 12:49:48 PM	R102095
Carbon Tetrachloride	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Chlorobenzene	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Chloroethane	ND	4.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Chloroform	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Chloromethane	ND	6.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
2-Chlorotoluene	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
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cis-1,3-Dichloropropene	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Dibromochloromethane	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Dibromomethane	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,2-Dichlorobenzene	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,3-Dichlorobenzene	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,4-Dichlorobenzene	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Dichlorodifluoromethane	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,1-Dichloroethane	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,1-Dichloroethene	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,2-Dichloropropane	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095

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EPA METHOD 8260B: VOLATILES							Analyst: JR
1,3-Dichloropropane	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
2,2-Dichloropropane	ND	4.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,1-Dichloropropene	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Hexachlorobutadiene	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
2-Hexanone	25	20		µg/L	2	12/27/2023 12:49:48 PM	R102095
Isopropylbenzene	5.4	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
4-Isopropyltoluene	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
4-Methyl-2-pentanone	43	20		µg/L	2	12/27/2023 12:49:48 PM	R102095
Methylene Chloride	ND	6.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
n-Butylbenzene	ND	6.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
n-Propylbenzene	6.1	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
sec-Butylbenzene	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Styrene	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
tert-Butylbenzene	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
trans-1,2-DCE	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,1,1-Trichloroethane	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,1,2-Trichloroethane	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Trichloroethene (TCE)	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Trichlorofluoromethane	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
1,2,3-Trichloropropane	ND	4.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Vinyl chloride	ND	2.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Xylenes, Total	470	3.0		µg/L	2	12/27/2023 12:49:48 PM	R102095
Surr: 1,2-Dichloroethane-d4	87.6	70-130		%Rec	2	12/27/2023 12:49:48 PM	R102095
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	2	12/27/2023 12:49:48 PM	R102095
Surr: Dibromofluoromethane	79.0	70-130		%Rec	2	12/27/2023 12:49:48 PM	R102095
Surr: Toluene-d8	105	70-130		%Rec	2	12/27/2023 12:49:48 PM	R102095

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EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	540	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
Toluene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
Ethylbenzene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,2,4-Trimethylbenzene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,3,5-Trimethylbenzene	16	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,2-Dichloroethane (EDC)	120	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
Naphthalene	ND	20		µg/L	10	12/27/2023 12:22:23 PM	R102095
1-Methylnaphthalene	ND	40		µg/L	10	12/27/2023 12:22:23 PM	R102095
2-Methylnaphthalene	ND	40		µg/L	10	12/27/2023 12:22:23 PM	R102095
Acetone	ND	100		µg/L	10	12/27/2023 12:22:23 PM	R102095
Bromobenzene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
Bromodichloromethane	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
Bromoform	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
Bromomethane	ND	30		µg/L	10	12/27/2023 12:22:23 PM	R102095
2-Butanone	ND	100		µg/L	10	12/27/2023 12:22:23 PM	R102095
Carbon disulfide	ND	100		µg/L	10	12/27/2023 12:22:23 PM	R102095
Carbon Tetrachloride	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
Chlorobenzene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
Chloroethane	ND	20		µg/L	10	12/27/2023 12:22:23 PM	R102095
Chloroform	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
Chloromethane	ND	30		µg/L	10	12/27/2023 12:22:23 PM	R102095
2-Chlorotoluene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
4-Chlorotoluene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
cis-1,2-DCE	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
cis-1,3-Dichloropropene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	12/27/2023 12:22:23 PM	R102095
Dibromochloromethane	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
Dibromomethane	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,2-Dichlorobenzene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,3-Dichlorobenzene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,4-Dichlorobenzene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
Dichlorodifluoromethane	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,1-Dichloroethane	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,1-Dichloroethene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,2-Dichloropropane	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-12 20231213

Project: Former Y

Collection Date: 12/13/2023 7:16:00 AM

Lab ID: 2312916-012

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
1,3-Dichloropropane	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
2,2-Dichloropropane	ND	20		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,1-Dichloropropene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
Hexachlorobutadiene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
2-Hexanone	ND	100		µg/L	10	12/27/2023 12:22:23 PM	R102095
Isopropylbenzene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
4-Isopropyltoluene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
4-Methyl-2-pentanone	ND	100		µg/L	10	12/27/2023 12:22:23 PM	R102095
Methylene Chloride	ND	30		µg/L	10	12/27/2023 12:22:23 PM	R102095
n-Butylbenzene	ND	30		µg/L	10	12/27/2023 12:22:23 PM	R102095
n-Propylbenzene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
sec-Butylbenzene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
Styrene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
tert-Butylbenzene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	12/27/2023 12:22:23 PM	R102095
Tetrachloroethene (PCE)	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
trans-1,2-DCE	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
trans-1,3-Dichloropropene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,2,3-Trichlorobenzene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,2,4-Trichlorobenzene	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,1,1-Trichloroethane	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,1,2-Trichloroethane	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
Trichloroethene (TCE)	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
Trichlorofluoromethane	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
1,2,3-Trichloropropane	ND	20		µg/L	10	12/27/2023 12:22:23 PM	R102095
Vinyl chloride	ND	10		µg/L	10	12/27/2023 12:22:23 PM	R102095
Xylenes, Total	42	15		µg/L	10	12/27/2023 12:22:23 PM	R102095
Surr: 1,2-Dichloroethane-d4	97.4	70-130		%Rec	10	12/27/2023 12:22:23 PM	R102095
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	10	12/27/2023 12:22:23 PM	R102095
Surr: Dibromofluoromethane	86.8	70-130		%Rec	10	12/27/2023 12:22:23 PM	R102095
Surr: Toluene-d8	101	70-130		%Rec	10	12/27/2023 12:22:23 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-13 20231212

Project: Former Y

Collection Date: 12/12/2023 4:45:00 PM

Lab ID: 2312916-013

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	0.10	0.0095		µg/L	1	12/21/2023 10:36:40 AM	79463
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Benzene	110	1.0	E	µg/L	1	12/24/2023 7:07:52 PM	R102069
Toluene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Ethylbenzene	1.6	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,2,4-Trimethylbenzene	8.8	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,3,5-Trimethylbenzene	20	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,2-Dichloroethane (EDC)	76	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Naphthalene	6.0	2.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1-Methylnaphthalene	ND	4.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
2-Methylnaphthalene	ND	4.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Acetone	ND	10		µg/L	1	12/24/2023 7:07:52 PM	R102069
Bromobenzene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Bromodichloromethane	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Bromoform	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Bromomethane	ND	3.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
2-Butanone	ND	10		µg/L	1	12/24/2023 7:07:52 PM	R102069
Carbon disulfide	ND	10		µg/L	1	12/24/2023 7:07:52 PM	R102069
Carbon Tetrachloride	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Chlorobenzene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Chloroethane	ND	2.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Chloroform	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Chloromethane	ND	3.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
2-Chlorotoluene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
4-Chlorotoluene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
cis-1,2-DCE	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Dibromochloromethane	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Dibromomethane	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,1-Dichloroethane	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,1-Dichloroethene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,2-Dichloropropane	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-13 20231212

Project: Former Y

Collection Date: 12/12/2023 4:45:00 PM

Lab ID: 2312916-013

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: RAA
1,3-Dichloropropane	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
2,2-Dichloropropane	ND	2.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,1-Dichloropropene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Hexachlorobutadiene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
2-Hexanone	ND	10		µg/L	1	12/24/2023 7:07:52 PM	R102069
Isopropylbenzene	1.3	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
4-Isopropyltoluene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
4-Methyl-2-pentanone	ND	10		µg/L	1	12/24/2023 7:07:52 PM	R102069
Methylene Chloride	ND	3.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
n-Butylbenzene	ND	3.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
n-Propylbenzene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
sec-Butylbenzene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Styrene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
tert-Butylbenzene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
trans-1,2-DCE	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Trichlorofluoromethane	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Vinyl chloride	ND	1.0		µg/L	1	12/24/2023 7:07:52 PM	R102069
Xylenes, Total	39	1.5		µg/L	1	12/24/2023 7:07:52 PM	R102069
Surr: 1,2-Dichloroethane-d4	89.1	70-130		%Rec	1	12/24/2023 7:07:52 PM	R102069
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	12/24/2023 7:07:52 PM	R102069
Surr: Dibromofluoromethane	79.3	70-130		%Rec	1	12/24/2023 7:07:52 PM	R102069
Surr: Toluene-d8	103	70-130		%Rec	1	12/24/2023 7:07:52 PM	R102069

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-16 20231212

Project: Former Y

Collection Date: 12/12/2023 3:45:00 PM

Lab ID: 2312916-014

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	0.74	0.047		µg/L	5	12/21/2023 2:16:10 PM	79463
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Benzene	1500	1.0	E	µg/L	1	12/24/2023 7:35:14 PM	R102069
Toluene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Ethylbenzene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,2,4-Trimethylbenzene	3.8	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,3,5-Trimethylbenzene	6.1	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,2-Dichloroethane (EDC)	77	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,2-Dibromoethane (EDB)	1.1	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Naphthalene	7.7	2.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1-Methylnaphthalene	ND	4.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
2-Methylnaphthalene	ND	4.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Acetone	ND	10		µg/L	1	12/24/2023 7:35:14 PM	R102069
Bromobenzene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Bromodichloromethane	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Bromoform	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Bromomethane	ND	3.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
2-Butanone	ND	10		µg/L	1	12/24/2023 7:35:14 PM	R102069
Carbon disulfide	ND	10		µg/L	1	12/24/2023 7:35:14 PM	R102069
Carbon Tetrachloride	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Chlorobenzene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Chloroethane	ND	2.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Chloroform	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Chloromethane	ND	3.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
2-Chlorotoluene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
4-Chlorotoluene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
cis-1,2-DCE	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Dibromochloromethane	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Dibromomethane	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,1-Dichloroethane	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,1-Dichloroethene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,2-Dichloropropane	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: MW-16 20231212

Project: Former Y

Collection Date: 12/12/2023 3:45:00 PM

Lab ID: 2312916-014

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: RAA
1,3-Dichloropropane	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
2,2-Dichloropropane	ND	2.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,1-Dichloropropene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Hexachlorobutadiene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
2-Hexanone	ND	10		µg/L	1	12/24/2023 7:35:14 PM	R102069
Isopropylbenzene	2.8	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
4-Isopropyltoluene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
4-Methyl-2-pentanone	ND	10		µg/L	1	12/24/2023 7:35:14 PM	R102069
Methylene Chloride	ND	3.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
n-Butylbenzene	ND	3.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
n-Propylbenzene	1.7	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
sec-Butylbenzene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Styrene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
tert-Butylbenzene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
trans-1,2-DCE	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Trichlorofluoromethane	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Vinyl chloride	ND	1.0		µg/L	1	12/24/2023 7:35:14 PM	R102069
Xylenes, Total	39	1.5		µg/L	1	12/24/2023 7:35:14 PM	R102069
Surr: 1,2-Dichloroethane-d4	89.9	70-130		%Rec	1	12/24/2023 7:35:14 PM	R102069
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	12/24/2023 7:35:14 PM	R102069
Surr: Dibromofluoromethane	81.0	70-130		%Rec	1	12/24/2023 7:35:14 PM	R102069
Surr: Toluene-d8	99.7	70-130		%Rec	1	12/24/2023 7:35:14 PM	R102069

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-5 20231214

Project: Former Y

Collection Date: 12/14/2023 11:00:00 AM

Lab ID: 2312916-015

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	0.29	0.019		µg/L	2	12/28/2023 6:22:23 PM	79615
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Toluene	2.5	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Ethylbenzene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,2,4-Trimethylbenzene	30	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,3,5-Trimethylbenzene	10	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,2-Dichloroethane (EDC)	4.4	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Naphthalene	ND	4.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1-Methylnaphthalene	ND	8.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
2-Methylnaphthalene	ND	8.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Acetone	ND	20		µg/L	2	12/28/2023 11:36:45 AM	R102137
Bromobenzene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Bromodichloromethane	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Bromoform	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Bromomethane	ND	6.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
2-Butanone	ND	20		µg/L	2	12/28/2023 11:36:45 AM	R102137
Carbon disulfide	ND	20		µg/L	2	12/28/2023 11:36:45 AM	R102137
Carbon Tetrachloride	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Chlorobenzene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Chloroethane	ND	4.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Chloroform	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Chloromethane	ND	6.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
2-Chlorotoluene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
4-Chlorotoluene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
cis-1,2-DCE	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Dibromochloromethane	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Dibromomethane	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,2-Dichlorobenzene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,3-Dichlorobenzene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,4-Dichlorobenzene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Dichlorodifluoromethane	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,1-Dichloroethane	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,1-Dichloroethene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,2-Dichloropropane	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-5 20231214

Project: Former Y

Collection Date: 12/14/2023 11:00:00 AM

Lab ID: 2312916-015

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
1,3-Dichloropropane	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
2,2-Dichloropropane	ND	4.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,1-Dichloropropene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Hexachlorobutadiene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
2-Hexanone	ND	20		µg/L	2	12/28/2023 11:36:45 AM	R102137
Isopropylbenzene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
4-Isopropyltoluene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
4-Methyl-2-pentanone	ND	20		µg/L	2	12/28/2023 11:36:45 AM	R102137
Methylene Chloride	ND	6.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
n-Butylbenzene	ND	6.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
n-Propylbenzene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
sec-Butylbenzene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Styrene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
tert-Butylbenzene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
trans-1,2-DCE	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,1,1-Trichloroethane	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,1,2-Trichloroethane	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Trichloroethene (TCE)	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Trichlorofluoromethane	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
1,2,3-Trichloropropane	ND	4.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Vinyl chloride	ND	2.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Xylenes, Total	76	3.0		µg/L	2	12/28/2023 11:36:45 AM	R102137
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	2	12/28/2023 11:36:45 AM	R102137
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	2	12/28/2023 11:36:45 AM	R102137
Surr: Dibromofluoromethane	91.1	70-130		%Rec	2	12/28/2023 11:36:45 AM	R102137
Surr: Toluene-d8	103	70-130		%Rec	2	12/28/2023 11:36:45 AM	R102137

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-8 20231214

Project: Former Y

Collection Date: 12/14/2023 11:25:00 AM

Lab ID: 2312916-016

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	36	1.9		µg/L	200	12/29/2023 8:42:50 AM	79583
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	1500	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
Toluene	1300	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
Ethylbenzene	170	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,2,4-Trimethylbenzene	130	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,3,5-Trimethylbenzene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,2-Dichloroethane (EDC)	98	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
Naphthalene	ND	100		µg/L	50	12/27/2023 4:29:37 PM	R102095
1-Methylnaphthalene	ND	200		µg/L	50	12/27/2023 4:29:37 PM	R102095
2-Methylnaphthalene	ND	200		µg/L	50	12/27/2023 4:29:37 PM	R102095
Acetone	ND	500		µg/L	50	12/27/2023 4:29:37 PM	R102095
Bromobenzene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
Bromodichloromethane	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
Bromoform	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
Bromomethane	ND	150		µg/L	50	12/27/2023 4:29:37 PM	R102095
2-Butanone	ND	500		µg/L	50	12/27/2023 4:29:37 PM	R102095
Carbon disulfide	ND	500		µg/L	50	12/27/2023 4:29:37 PM	R102095
Carbon Tetrachloride	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
Chlorobenzene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
Chloroethane	ND	100		µg/L	50	12/27/2023 4:29:37 PM	R102095
Chloroform	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
Chloromethane	ND	150		µg/L	50	12/27/2023 4:29:37 PM	R102095
2-Chlorotoluene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
4-Chlorotoluene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
cis-1,2-DCE	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
cis-1,3-Dichloropropene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	12/27/2023 4:29:37 PM	R102095
Dibromochloromethane	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
Dibromomethane	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,2-Dichlorobenzene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,3-Dichlorobenzene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,4-Dichlorobenzene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
Dichlorodifluoromethane	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,1-Dichloroethane	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,1-Dichloroethene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,2-Dichloropropane	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: BW-8 20231214

Project: Former Y

Collection Date: 12/14/2023 11:25:00 AM

Lab ID: 2312916-016

Matrix: AQUEOUS

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
1,3-Dichloropropane	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
2,2-Dichloropropane	ND	100		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,1-Dichloropropene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
Hexachlorobutadiene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
2-Hexanone	ND	500		µg/L	50	12/27/2023 4:29:37 PM	R102095
Isopropylbenzene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
4-Isopropyltoluene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
4-Methyl-2-pentanone	ND	500		µg/L	50	12/27/2023 4:29:37 PM	R102095
Methylene Chloride	ND	150		µg/L	50	12/27/2023 4:29:37 PM	R102095
n-Butylbenzene	ND	150		µg/L	50	12/27/2023 4:29:37 PM	R102095
n-Propylbenzene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
sec-Butylbenzene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
Styrene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
tert-Butylbenzene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	12/27/2023 4:29:37 PM	R102095
Tetrachloroethene (PCE)	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
trans-1,2-DCE	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
trans-1,3-Dichloropropene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,2,3-Trichlorobenzene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,2,4-Trichlorobenzene	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,1,1-Trichloroethane	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,1,2-Trichloroethane	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
Trichloroethene (TCE)	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
Trichlorofluoromethane	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
1,2,3-Trichloropropane	ND	100		µg/L	50	12/27/2023 4:29:37 PM	R102095
Vinyl chloride	ND	50		µg/L	50	12/27/2023 4:29:37 PM	R102095
Xylenes, Total	910	75		µg/L	50	12/27/2023 4:29:37 PM	R102095
Surr: 1,2-Dichloroethane-d4	98.8	70-130		%Rec	50	12/27/2023 4:29:37 PM	R102095
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	50	12/27/2023 4:29:37 PM	R102095
Surr: Dibromofluoromethane	87.5	70-130		%Rec	50	12/27/2023 4:29:37 PM	R102095
Surr: Toluene-d8	100	70-130		%Rec	50	12/27/2023 4:29:37 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y

Collection Date:

Lab ID: 2312916-017

Matrix: TRIP BLANK

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	ND	0.0096		µg/L	1	12/28/2023 11:40:23 PM	79583
EPA METHOD 8260B: VOLATILES							Analyst: JR
Benzene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Toluene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Ethylbenzene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Naphthalene	ND	2.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1-Methylnaphthalene	ND	4.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
2-Methylnaphthalene	ND	4.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Acetone	ND	10		µg/L	1	12/27/2023 4:56:59 PM	R102095
Bromobenzene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Bromodichloromethane	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Bromoform	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Bromomethane	ND	3.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
2-Butanone	ND	10		µg/L	1	12/27/2023 4:56:59 PM	R102095
Carbon disulfide	ND	10		µg/L	1	12/27/2023 4:56:59 PM	R102095
Carbon Tetrachloride	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Chlorobenzene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Chloroethane	ND	2.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Chloroform	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Chloromethane	ND	3.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
2-Chlorotoluene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
4-Chlorotoluene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
cis-1,2-DCE	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Dibromochloromethane	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Dibromomethane	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,1-Dichloroethane	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,1-Dichloroethene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,2-Dichloropropane	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2312916

Date Reported: 1/5/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y

Collection Date:

Lab ID: 2312916-017

Matrix: TRIP BLANK

Received Date: 12/15/2023 9:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: JR
1,3-Dichloropropane	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
2,2-Dichloropropane	ND	2.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,1-Dichloropropene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Hexachlorobutadiene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
2-Hexanone	ND	10		µg/L	1	12/27/2023 4:56:59 PM	R102095
Isopropylbenzene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
4-Isopropyltoluene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
4-Methyl-2-pentanone	ND	10		µg/L	1	12/27/2023 4:56:59 PM	R102095
Methylene Chloride	ND	3.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
n-Butylbenzene	ND	3.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
n-Propylbenzene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
sec-Butylbenzene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Styrene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
tert-Butylbenzene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
trans-1,2-DCE	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Trichlorofluoromethane	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Vinyl chloride	ND	1.0		µg/L	1	12/27/2023 4:56:59 PM	R102095
Xylenes, Total	ND	1.5		µg/L	1	12/27/2023 4:56:59 PM	R102095
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	12/27/2023 4:56:59 PM	R102095
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	12/27/2023 4:56:59 PM	R102095
Surr: Dibromofluoromethane	90.0	70-130		%Rec	1	12/27/2023 4:56:59 PM	R102095
Surr: Toluene-d8	102	70-130		%Rec	1	12/27/2023 4:56:59 PM	R102095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312916

05-Jan-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: MB-79463	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 79463	RunNo: 102074								
Prep Date: 12/19/2023	Analysis Date: 12/20/2023	SeqNo: 3766940	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-79463	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 79463	RunNo: 102074								
Prep Date: 12/19/2023	Analysis Date: 12/20/2023	SeqNo: 3766946	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.11	0.010	0.1000	0	107	70	130			

Sample ID: MB-79463	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 79463	RunNo: 102074								
Prep Date: 12/19/2023	Analysis Date: 12/20/2023	SeqNo: 3766948	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-79463	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 79463	RunNo: 102074								
Prep Date: 12/19/2023	Analysis Date: 12/20/2023	SeqNo: 3766951	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.10	0.010	0.1000	0	101	70	130			

Sample ID: MB-79583	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 79583	RunNo: 102199								
Prep Date: 12/28/2023	Analysis Date: 12/28/2023	SeqNo: 3772891	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: MB-79615	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 79615	RunNo: 102199								
Prep Date: 12/28/2023	Analysis Date: 12/28/2023	SeqNo: 3772892	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312916

05-Jan-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: LCS-79583	SampType: LCS		TestCode: EPA Method 8011/504.1: EDB							
Client ID: LCSW	Batch ID: 79583		RunNo: 102199							
Prep Date: 12/28/2023	Analysis Date: 12/28/2023		SeqNo: 3772893		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.10	0.010	0.1000	0	102	70	130			

Sample ID: LCS-79615	SampType: LCS		TestCode: EPA Method 8011/504.1: EDB							
Client ID: LCSW	Batch ID: 79615		RunNo: 102199							
Prep Date: 12/28/2023	Analysis Date: 12/28/2023		SeqNo: 3772894		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.096	0.010	0.1000	0	95.8	70	130			

Sample ID: LCSD-79583	SampType: LCSD		TestCode: EPA Method 8011/504.1: EDB							
Client ID: LCSS02	Batch ID: 79583		RunNo: 102199							
Prep Date: 12/28/2023	Analysis Date: 12/28/2023		SeqNo: 3772895		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.092	0.010	0.1000	0	92.2	70	130	9.87	20	

Sample ID: LCSD-79615	SampType: LCSD		TestCode: EPA Method 8011/504.1: EDB							
Client ID: LCSS02	Batch ID: 79615		RunNo: 102199							
Prep Date: 12/28/2023	Analysis Date: 12/28/2023		SeqNo: 3772896		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.094	0.010	0.1000	0	94.4	70	130	1.47	20	

Sample ID: LCS-79583	SampType: LCS		TestCode: EPA Method 8011/504.1: EDB							
Client ID: LCSW	Batch ID: 79583		RunNo: 102199							
Prep Date: 12/28/2023	Analysis Date: 12/28/2023		SeqNo: 3772897		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.11	0.010	0.1000	0	108	70	130			

Sample ID: LCS-79615	SampType: LCS		TestCode: EPA Method 8011/504.1: EDB							
Client ID: LCSW	Batch ID: 79615		RunNo: 102199							
Prep Date: 12/28/2023	Analysis Date: 12/28/2023		SeqNo: 3772898		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.099	0.010	0.1000	0	99.0	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312916

05-Jan-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: LCSD-79583	SampType: LCSD		TestCode: EPA Method 8011/504.1: EDB							
Client ID: LCSS02	Batch ID: 79583		RunNo: 102199							
Prep Date: 12/28/2023	Analysis Date: 12/28/2023		SeqNo: 3772899		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.095	0.010	0.1000	0	95.4	70	130	12.0	20	

Sample ID: MB-79583	SampType: MBLK		TestCode: EPA Method 8011/504.1: EDB							
Client ID: PBW	Batch ID: 79583		RunNo: 102199							
Prep Date: 12/28/2023	Analysis Date: 12/28/2023		SeqNo: 3772900		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCSD-79615	SampType: LCSD		TestCode: EPA Method 8011/504.1: EDB							
Client ID: LCSS02	Batch ID: 79615		RunNo: 102199							
Prep Date: 12/28/2023	Analysis Date: 12/28/2023		SeqNo: 3772901		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.099	0.010	0.1000	0	98.5	70	130	0.472	20	

Sample ID: MB-79615	SampType: MBLK		TestCode: EPA Method 8011/504.1: EDB							
Client ID: PBW	Batch ID: 79615		RunNo: 102199							
Prep Date: 12/28/2023	Analysis Date: 12/28/2023		SeqNo: 3772902		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Above Quantitation Range/Estimated Value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of standard limits. If undiluted results may be estimated. | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312916

05-Jan-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID:	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R102069	RunNo:	102069					
Prep Date:		Analysis Date:	12/24/2023	SeqNo:	3766570	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.8	70	130			
Toluene	20	1.0	20.00	0	100	70	130			
Chlorobenzene	20	1.0	20.00	0	102	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	96.7	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	86.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.4	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	8.2		10.00		82.4	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID:	2312916-013a ms	SampType:	MS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	MW-13 20231212	Batch ID:	R102069	RunNo:	102069					
Prep Date:		Analysis Date:	12/24/2023	SeqNo:	3766589	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	130	1.0	20.00	112.2	94.7	70	130			E
Toluene	22	1.0	20.00	0.3982	107	70	130			
Chlorobenzene	21	1.0	20.00	0	105	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	98.7	70	130			
Trichloroethene (TCE)	16	1.0	20.00	0	81.2	70	130			
Surr: 1,2-Dichloroethane-d4	8.7		10.00		87.0	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Dibromofluoromethane	8.1		10.00		81.0	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID:	2312916-013a msd	SampType:	MSD	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	MW-13 20231212	Batch ID:	R102069	RunNo:	102069					
Prep Date:		Analysis Date:	12/24/2023	SeqNo:	3766590	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	130	1.0	20.00	112.2	70.9	70	130	3.69	20	E
Toluene	21	1.0	20.00	0.3982	102	70	130	4.29	20	
Chlorobenzene	20	1.0	20.00	0	101	70	130	3.94	20	
1,1-Dichloroethene	19	1.0	20.00	0	93.3	70	130	5.69	20	
Trichloroethene (TCE)	16	1.0	20.00	0	82.0	70	130	1.05	20	
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.2	70	130	0	0	
Surr: 4-Bromofluorobenzene	11		10.00		114	70	130	0	0	
Surr: Dibromofluoromethane	8.5		10.00		85.1	70	130	0	0	
Surr: Toluene-d8	11		10.00		106	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312916

05-Jan-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R102069	RunNo: 102069								
Prep Date:	Analysis Date: 12/24/2023	SeqNo: 3766593 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312916

05-Jan-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES
Client ID: PBW	Batch ID: R102069	RunNo: 102069
Prep Date:	Analysis Date: 12/24/2023	SeqNo: 3766593 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		89.6	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		105	70	130			
Surr: Dibromofluoromethane	8.1		10.00		80.6	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES
Client ID: LCSW	Batch ID: R102095	RunNo: 102095
Prep Date:	Analysis Date: 12/27/2023	SeqNo: 3768395 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	16	1.0	20.00	0	82.4	70	130			
Toluene	22	1.0	20.00	0	108	70	130			
Chlorobenzene	21	1.0	20.00	0	107	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312916

05-Jan-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: R102095	RunNo: 102095								
Prep Date:	Analysis Date: 12/27/2023	SeqNo: 3768395	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19	1.0	20.00	0	97.3	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	84.9	70	130			
Surr: 1,2-Dichloroethane-d4	8.9		10.00		89.3	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	8.0		10.00		80.5	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R102095	RunNo: 102095								
Prep Date:	Analysis Date: 12/27/2023	SeqNo: 3768421	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312916

05-Jan-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R102095		RunNo: 102095							
Prep Date:	Analysis Date: 12/27/2023		SeqNo: 3768421		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.6		10.00		86.2	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312916

05-Jan-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R102095	RunNo: 102095								
Prep Date:	Analysis Date: 12/27/2023	SeqNo: 3768421			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	8.1		10.00		80.9	70	130			
Surr: Toluene-d8	11		10.00		106	70	130			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Above Quantitation Range/Estimated Value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of standard limits. If undiluted results may be estimated. | |



Sample Log-In Check List

Client Name: Daniel B. Stephens & Work Order Number: 2312916 RcptNo: 1

Received By: Nancy Proctor 12/15/2023 9:26:00 AM

Completed By: Cheyenne Cason 12/15/2023 9:55:58 AM *Chen*

Reviewed By: *[Signature]* 12/15/23

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No *M 12/15/23*
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: *[Signature]* 12-15-23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<u>Grace H</u>	Date:	<u>12/18/23</u>
By Whom:	<u>Cheyenne C.</u>	Via:	<input type="checkbox"/> eMail <input checked="" type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<u>Time discrepancy on -011 and volume discrepancy on -009</u>		
Client Instructions:	<u>ILVM going with COC</u>		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Not Present	Morty		

Chain-of-Custody Record

Client: DBS & A

Mailing Address: 6020 ACADEMY NE

ABQ NM 87109

Phone #: 505 822 9400

email or Fax#: gherman@geo-logic.com

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other

EDD (Type)

Turn-Around Time:
 Standard Rush

Project Name:
Former Y

Project #:
DB18. 1157

Project Manager:
G Herman

Sampler: V. Torres

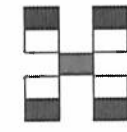
On Ice: Yes No

of Coolers: 1 *mostly*

Cooler Temp (including CF): 3.6 ± 0.3.6 (°C)

Date	Time	Matrix	Sample Name
12/14/23	0913	AQ	MW-17 20231214
	851		BW-4 20231214
	830		BW-7 20231214
12/12/23	1614		MW-11 20231212
12/14/23	0809		MW-15 20231214
	0745		MW-14 20231214
12/13/23	0940		RW-1 20231213
	0905		RW-3 20231213
	8220		RW-2 20231213
	0758		RW-4 20231213
	0740		BW-7R 20231213
	0710		MW-12 20231213

Container Type and #	Preservative Type	HEAL No.
5UBAS	VARIOUS	2312916
		001
		001-002
		002-003
		004
		005
		006
		007
		008
		009
		010
		011
		012



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
			X				X		

Date: 12/15/23 Time: 9:26 Relinquished by: [Signature]

Received by: [Signature] Via: CPD Date: 12/15/23 Time: 9:26

Remarks:

Date: Time: Relinquished by:

Received by: Via: Date Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: DBSEA

Mailing Address: 6020 ACADEMY

NF ABO NW 81109

Phone #: 505 822-9400

email or Fax#: gherman@geotlogic.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other

EDD (Type)

Turn-Around Time:

Standard Rush

Project Name:

Former Y

Project #:

DB18.1157

Project Manager:

G. Herman

Sampler: L. Jones

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 3.6 ± 0 = 3.6 (°C) marks

Date	Time	Matrix	Sample Name
<u>12/12/23</u>	<u>0710</u>	<u>AQ</u>	<u>MW-12 20231213</u>
	<u>1645</u>		<u>MW-13 20231212</u>
	<u>1545</u>		<u>MW-16 20231212</u>
			<u>MW-5</u>
<u>12/14/23</u>	<u>11:00</u>		<u>BSW-5 20231214</u>
	<u>11:25</u>		<u>BSW-8 20231214</u>
			<u>TRIP BLANKS</u>

Container Type and #

Preservative Type

HEAL No. 2312916

5 VOAS VARBUS

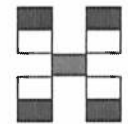
013

014

015

016

017



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
			<u>X</u>				<u>X</u>		

Date: 12/25/23 Time: 9:20 Relinquished by: [Signature]

Received by: [Signature] Via: COO Date: 12/15/23 Time: 9:26

Remarks:

Date: Time: Relinquished by:

Received by: Via: Date: Time:

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Appendix E
Mass Removal
Calculations

Project Name Former Y Station State Lead Site Project Number DB18.1157

 Calculation Number 001 Discipline Environmental No. of Sheets 8
PROJECT:

Former Y Station State Lead Site

SITE:

1905 N Prince St, Clovis, NM 88101


SUBJECT:

Hydrocarbon Mass Removal Calculation

SOURCES OF DATA:

- A. System operations summary data recorded by DBS&A staff
- B. Summary of Analytical Organic Chemistry Data for Soil Vapor, DBS&A. (Results reported by Hall Environmental Analysis Laboratory)
- C. Fundamentals of Fluid Mechanics - Munson et al, 2006
- D. "Conversion Unmasked" - Rong and Yu, 1996

SOURCES OF FORMULAE & REFERENCES:

- 1. Rotameter Flow Measurement, January 29, 2010
- 2. Alnor HVAC Handbook, 2007

 Preliminary Calculation

 Final Calculation

Supersedes Calculation No. ____

Rev. No.	Revision	Calculation By	Date	Checked By	Date	Approved By	Date
0	Startup / As-Built Report	ANT	12/06/2023	TG	12/08/2023	TG	12/27/2023
1	1 st GWM Report	TG	2/12/2024	GMH	2/16/2024	TG	2/16/2024

Project No. DB18.1157 Date 12/6/2023
Subject Hydrocarbon Mass Removal Calculation Sheet 1 of 7
By A. Nuñez-Thompson Checked By T. Golden Calculation No. 001

1. Purpose

- Calculate the total mass of hydrocarbons removed by the remediation system, including the soil vapor extraction (SVE) and groundwater extraction components
- Calculate the hydrocarbon destruction efficiency of the SVE system
- Calculate the hydrocarbon emission rates from the SVE system

2. Given

- System operations data recorded by technical staff, including air flow rate in cubic feet per minute [cfm] or standard cfm and totalized water flow in gallons; blower effluent temperature, vacuum, hours of operation; and influent and effluent concentrations as measured with a PID ^A
- Total petroleum hydrocarbons as gasoline and diesel range organics (TPH GRO and DRO) concentrations from laboratory analyses of soil vapor and groundwater samples ^B
- Absolute atmospheric pressure, P_{atm} , in Clovis, NM at an elevation of 4,280 feet above mean sea level (ft msl) is 12.53 pounds per square inch (psi) (linearly interpolated from the reference) ^C
- Conversion factor of 4.16 from gasoline concentrations measured in parts per million by volume (ppmv) to micrograms per liter ($\mu\text{g/L}$) ^D

3. Method

Methods for calculating air flow rates and hydrocarbon mass removal, destruction efficiency, and emission rates are provided below.

Project No. DB18.1157

Date 12/6/2023

Subject Hydrocarbon Mass Removal Calculation

Sheet 2 of 7

By A. Nuñez-Thompson Checked By T. Golden

Calculation No. 001

3.1 Air Flow Rates

The combined influent flow rate for the SVE system is reported in standard cubic feet per minute (scfm). Calculate the actual (Q_{acfm}) system air flow rates based on the standard system flow and the actual pressure and temperature relative to standard conditions (14.7 psi and 530 degrees Rankine) using equations 1 and 2. ¹

$$Q_{acfm} = Q_{scfm} \cdot \frac{P_{std}}{P_{actual}} \cdot \frac{T_{actual}}{T_{std}} \quad (1)$$

3.2 Mass Removal by Laboratory Analysis

The first mass removal calculation is performed using laboratory analyses of concentrations of total petroleum hydrocarbons as gasoline range organics (TPH GRO) in $\mu\text{g/L}^B$ and the air flow rate. Laboratory concentrations (C_{lab} , mass per volume) are first converted to a volume of air under standard conditions, C_{std} (Hall Environmental Analysis Laboratory stated that concentrations are reported under actual laboratory conditions):

$$C_{std} = C_{lab} \cdot \left(\frac{P_{std}}{P_{lab}} \cdot \frac{T_{lab}}{T_{std}} \right) \quad (2)$$

The combined well influent air flow rate (measured in the same point in the process as the laboratory samples) is recorded by the MPE system in standard cfm using an averaging pitot tube.² The standard combined well influent concentration of TPH (GRO), mass per volume, is multiplied by the standard air flow, volume per time, and the equipment run time to obtain the mass of hydrocarbons removed.

Laboratory analysis of groundwater is used with similar methodology to calculate mass removal from the groundwater extraction component of the remediation system. The groundwater concentration, mass per volume, is multiplied by a measured volume of groundwater extracted over the period of operation. Mass of both TPH and gasoline constituents of benzene, toluene, ethylbenzene, and total xylenes (BTEX) are evaluated to estimate approximate mass of gasoline-equivalent hydrocarbons in the groundwater medium, with the maximum of the two values taken.

Project No. DB18.1157Date 12/6/2023Subject Hydrocarbon Mass Removal CalculationSheet 3 of 7By A. Nuñez-Thompson Checked By T. GoldenCalculation No. 001

3.3 Mass Removal by PID Analysis

A second mass removal calculation is performed using PID field screening readings^A measured in ppmv and the air flow rate. PID readings are first converted from volumetric concentrations (ppmv) to mass-based concentrations ($\mu\text{g/L}$) using a factor of 4.16^D. The combined well influent air flow rate (measured in the same point in the process as the PID samples) is recorded by the SVE system in standard cfm using an averaging pitot tube.⁴ The standard combined well influent PID reading is multiplied by the standard air flow and the equipment run time to obtain the mass of hydrocarbons removed, similar to the method above.

3.4 Destruction Efficiency

System destruction efficiency (DE) is computed based on the system influent and effluent laboratory concentrations (C_{inf} and C_{eff}):

$$DE = (C_{\text{inf}} - C_{\text{eff}}) / (C_{\text{inf}}) \quad (3)$$

3.5 Emission Rates

Estimated hydrocarbon emission rates are calculated based on the oxidizer standard effluent concentration of TPH (GRO) and an assumed oxidizer standard effluent air flow rate. The effluent concentration is converted to a volume of air under standard conditions using equation 2. The effluent air flow rate will include well flow, dilution air, combustion air, and tertiary (cooling) air, where applicable. The SVE system is estimated conservatively to have a discharge air flow rate of 1,000 scfm.

4. Solution

Sample calculations are provided below for a period between November 1 and November 9 (laboratory samples collected on November 1 and November 9), with calculations summarized in attached spreadsheets. Removal by the groundwater treatment system is calculated based on a laboratory sample collected on November 9, 2023.

Project No. DB18.1157

Date 12/6/2023

Subject Hydrocarbon Mass Removal Calculation

Sheet 4 of 7

By A. Nuñez-Thompson Checked By T. Golden

Calculation No. 001

4.1 Air Flow Rates

The standard combined well influent flow rate, Q_{scfm} , during the period of 138 hours is 750 scfm, combined well vacuum, P_{vac} , is 50 inches of water column (" H₂O). Calculate the actual system flow rate, Q_{acfm} , using equation 1.

Calculate the actual pressure, P_{actual} , at the system flow meter based on atmospheric pressure (P_{atm}) and the applied well vacuum (P_{vac}):

$$P_{vac} = 49'' \text{ H}_2\text{O}$$

$$P_{actual} = P_{atm} - P_{vac} = 12.5 \text{ psi} - \frac{50'' \text{ H}_2\text{O}}{1} * \frac{1' \text{ H}_2\text{O}}{12'' \text{ H}_2\text{O}} * \frac{1 \text{ psi}}{2.31' \text{ H}_2\text{O}} = 10.70 \text{ psi}$$

$$Q_{acfm} = Q_{scfm} * \frac{P_{std}}{P_{actual}} * \frac{T_{actual}}{T_{std}} = 750 \text{ scfm} * \frac{14.7 \text{ psi}}{10.70 \text{ psi}} * \frac{530 \text{ R}}{530 \text{ R}} = 1,028 \text{ acfm}$$

4.2 Mass Removal by Laboratory Analysis

The standard combined well influent flow rate, Q_{scfm} , during the period of 138 hours is 750 scfm, and TPH (GRO) laboratory concentration, C_{lab} , is 13,800 micrograms per liter ($\mu\text{g/L}$)^B. Calculate the TPH (GRO) concentration under standard conditions, C_{std} , using equation 3 and assuming the absolute pressure and temperature at the laboratory (5000 ft msl) are 12.23 psi and 70° F, respectively:

$$C_{std} = C_{lab} * \left(\frac{P_{std}}{P_{lab}} * \frac{T_{lab}}{T_{std}} \right) = 13,800 \mu\text{g/L} * \left(\frac{14.7}{12.23} * \frac{530}{530} \right) = 16,587 \mu\text{g/L}$$

$$\text{Mass} = Q_{scfm} * C_{std} * \text{time} = 750 \text{ scfm} * 16,587 \mu\text{g/L} * 138 \text{ hr} * (28.317 \text{ L/ft}^3) * (60 \text{ min/hr}) *$$

$$(1 \text{ pound} / 454 \text{ grams}) * (1 \text{ gram} / 10^6 \mu\text{g}) = \text{Mass} = \mathbf{6,430 \text{ lb gasoline}}$$

Project No. DB18.1157 Date 12/6/2023
 Subject Hydrocarbon Mass Removal Calculation Sheet 5 of 7
 By A. Nuñez-Thompson Checked By T. Golden Calculation No. 001

Calculate the daily mass removal and total mass removed by the groundwater treatment system based on concentrations of TPH (GRO), TPH (DRO), and BTEX of 6.1, 2.4, and 2.9 mg/L, respectively, for the samples collected on November 9, 2023. The sum total of TPH is 8.5 mg/L, which is greater than the BTEX concentrations. The effluent totalizing flow meter read 133,800 gallons on November 9 and 42,000 gallons on November 3, so approximately 91,800 gallons were processed during this time period. Calculate the mass removed using the concentration and volumetric flow for the period:

$$\text{Mass removed} = V_{\text{period}} * C_{\text{lab}} =$$

$$91,800 \text{ gal} * (8.5 \text{ mg/L}) * 2.20 \times 10^{-6} \text{ lb/mg} * 3.8 \text{ L/gal} = \text{Mass} = \mathbf{6.5 \text{ lb gasoline}}$$

Total mass removed from both air and water phases of contamination:

$$\text{Mass} = 6,430 + 6.5 = 6,437 \text{ lb} / 6 \text{ lb/gal} = \text{Mass} = \mathbf{1,073 \text{ gallons gasoline-equivalent}}$$

Conversions from mass to gallons are provided only as a frame of reference. Some constituents in gasoline may not readily volatilize or may be oxidized by natural processes. Complete results are provided on attached spreadsheets.

4.3 Mass Removal by PID Analysis

The standard combined well influent flow rate, Q_{scfm} , during the period of 138 hours is 750 scfm, and the PID reported a volumetric concentration of 847 ppmv^A. Convert the volumetric concentration to a mass-based concentration at standard conditions:

$$C_{\text{std}} = 847 \text{ ppmv} * (4.16 \text{ } \mu\text{g/L per ppmv}) = 3,524 \text{ } \mu\text{g/L}$$

$$\text{Mass} = Q_{\text{scfm}} * C_{\text{std}} * \text{time} = 750 \text{ scfm} * 3,524 \text{ } \mu\text{g/L} * 138 \text{ hr} * (28.317 \text{ L/ft}^3) * (60 \text{ min/hr}) *$$

$$(1 \text{ pound} / 454 \text{ grams}) * (1 \text{ gram} / 10^6 \text{ } \mu\text{g}) = \text{Mass} = \mathbf{1,366 \text{ lb gasoline}}$$

Mass removal estimates obtained using PID data were lower than laboratory results. However, concentration estimates measured in the field using a portable PID are considered to be for screening purposes only and won't necessarily correlate with mass concentrations measured with laboratory data.

Project No. DB18.1157

 Date 12/6/2023

 Subject Hydrocarbon Mass Removal Calculation

 Sheet 6 of 7

 By A. Nuñez-Thompson Checked By T. Golden

 Calculation No. 001

4.4 Destruction Efficiency

Calculate destruction efficiency using equation 3, assuming TPH (GRO) influent and effluent laboratory concentrations of 13,800 and 2,700 $\mu\text{g/L}^B$, respectively, from the November 9 sampling event:

$$DE = (C_{inf} - C_{eff}) / (C_{inf}) = (13,800 \mu\text{g/L} - 2,700 \mu\text{g/L}) / 13,800 \mu\text{g/L} = \mathbf{DE = 80.4\%}$$

Calculate destruction efficiency using equation 3, assuming TPH (GRO) influent and effluent laboratory concentrations of 9,800 and 220 $\mu\text{g/L}^B$, respectively, from the November 28 sampling event:

$$DE = (C_{inf} - C_{eff}) / (C_{inf}) = (9,800 \mu\text{g/L} - 220 \mu\text{g/L}) / 9,800 \mu\text{g/L} = \mathbf{DE = 97.8\%}$$

Destruction efficiency has improved as the system has continued to operate. Based on how the remediation system operated during the startup period, it is likely that process air was initially oxygen deficient. In this state, hydrocarbons were not oxidized as completely, despite normal operation of the thermal oxidizer. Normal operation of the oxidizer has created subsurface circulation and is increasing subsurface oxygen content over time. This has translated to improved oxidizer efficiency, as observed in the laboratory data.

4.5 Emission Rates

Calculate the oxidizer effluent TPH (GRO) concentration under standard conditions, C_{std} , using equation 2 and assuming the absolute pressure and temperature at the laboratory (5000 ft msl) are 12.23 psi and 70° F, respectively:

$$C_{std} = C_{lab} * \left(\frac{P_{std}}{P_{lab}} * \frac{T_{lab}}{T_{std}} \right) = 2,700 \mu\text{g/L} * \left(\frac{14.7}{12.23} * \frac{530}{530} \right) = 3,245 \mu\text{g/L}$$

Calculate emissions rates in pounds per hour (lb/hr) and tons per year (ton/yr) assuming a system discharge air flow rate, Q_{out} , of 1000 scfm (including combustion blower air):

Project No. DB18.1157 Date 12/6/2023
Subject Hydrocarbon Mass Removal Calculation Sheet 7 of 7
By A. Nuñez-Thompson Checked By T. Golden Calculation No. 001

$$\text{Emissions} = Q_{\text{out}} * C_{\text{std}} = 1,000 \text{ scfm} * 3,245 \text{ } \mu\text{g/L} * (28.317 \text{ L/ft}^3) * (60 \text{ min/hr}) *$$

$$(1 \text{ pound} / 454 \text{ grams}) * (1 \text{ gram} / 10^6 \text{ } \mu\text{g}) = \text{Emissions} = \mathbf{12.16 \text{ lb/hr}}$$

$$\text{Emissions} = 12.16 \text{ lb/hr} * (8760 \text{ hr/yr}) * (1 \text{ ton}/2000 \text{ lb}) = \text{Emissions} = \mathbf{53.24 \text{ ton/yr}}$$

Time weighted average emission rates involve summing the product of the emission rate and run time for each individual period and dividing by the total run time.

Total period average emission rates involve summing the product of the emission rate and run time for each individual period and dividing by the current calendar time since startup.

As discussed above, oxidizer emission rates have improved as the oxidizer has continued to operate. Since November 16, 2023, TPH emission rates have been below 2 lb/hr and 9 ton/yr. Emissions of regulated constituents of gasoline, such as benzene, have been less than 0.2 lb/hr and 0.9 ton/yr. Emission rates will continue to improve as oxidizer efficiency increases and contaminant concentrations decrease with optimized mass removal.

Former Y Station, Clovis New Mexico
 Mass removal calculation (PID results)
 System start date November 1, 2023

The sample point is the combined influent sample port. Air flow is measured by the SVE system.

Date	Time	Total Blower Hours (hr)	Run Time during period (hr)	Run Time during period (min)	Combined Well Vacuum (in Hg)	Combined Well Vacuum (in H ₂ O)	Standard Combined Well Flow (scfm)	Actual Combined Well Flow (acfm)	PID Concentration (ppmv)	PID Concentration (µg/L)*	Total Well Flow (scf)	Mass Removed During Period (lb)	Cumulative Mass Removed (lb)	Mass Removal Rate (lb/hr)	Cumulative Mass Removal Rate (lb/hr)
11/1/2023	10:00	5													
System started															
11/1/2023	13:56	9	4	240	3.1	42	761	1,016	15,000	62,400	182,640	711	711	177.9	177.9
11/3/2023	15:08	58	49	2,940	3.5	47	762	1,034	1,446	6,015	2,240,280	841	1,553	17.2	29.3
11/9/2023	8:30	196	138	8,280	3.7	50	750	1,028	847	3,524	6,210,000	1,366	2,919	9.9	15.3
11/16/2023	14:10	368	172	10,320	3.5	48	766	1,043	1,368	5,691	7,905,120	2,808	5,727	16.3	15.8
11/21/2023	15:08	485	117	7,020	3.9	53	762	1055	1,523	6,336	5,349,240	2,116	7,843	18.1	16.3
11/27/2023	16:01	633	148	8,880	3.9	53	765	1059	1,105	4,597	6,793,200	1,949	9,793	13.2	15.6
12/12/2023	8:00	963	330	19,800	4.1	55	775	1082	825	3,434	15,345,000	3,289	13,082	10.0	13.7
1/3/2024	7:30	1,463	500	30,000	4.1	56	775	1084	788	3,277	23,250,000	4,756	17,838	9.5	12.2
1/16/2024	12:30	1,756	293	17,580	4.2	57	781	1096	702	2,918	13,729,980	2,501	20,339	8.5	11.6
1/31/2024	8:27	2,109	353	21,162	4.4	59	764	1081	896	3,727	16,167,768	3,762	24,101	10.7	11.5

Notes

µg/L = micrograms per liter
 lb= pounds
 cfm = cubic feet per minute
 acfm = actual cfm
 scfm = standard cfm
 scf = standard cubic feet
 STP = standard temperature and pressure

hr = hours
 min = minutes
 in H₂O = inches water column
 psi = pounds per square inch
 °F = degrees Fahrenheit
 °R = degrees Rankine
 ft msl = feet above mean sea level

Conversions

* micrograms per liter = milligrams per cubic meter.
 454 gram / lb
 1.00E+06 ug / gram
 60 min / hr
 28.317 liter / cubic foot
 1000 liter / cubic meter
 35.315 cubic feet / cubic meter
 4.16 ug/L per ppmv for gasoline at STP

Flow Conversions

12.5 absolute air pressure at 4280 ft msl
 14.7 absolute air pressure at 0 ft msl
 13.6 Inches water per inches Hg
 12 inches per foot water
 2.31 feet of water (head) per psi
 70 °F, standard temperature
 70 °F, assumed lab temperature
 460 °R

Former Y Station, Clovis New Mexico
 Mass removal calculation (laboratory results)
 System start date November 1, 2023

The sample point is the combined influent sample port. Air flow is measured by the SVE system.

Date	Time	Total Blower Hours (hr)	Run Time (hr)	Run Time (min)	Combined Well Vacuum (in Hg)	Combined Well Vacuum (in H ₂ O)	Standard Combined Well Flow (scfm)	Actual Combined Well Flow (acfm)	Lab Results TPH GRO (µg/L)*	Lab Results TPH GRO at STP (µg/L)*	Total Well Flow (scf)	Mass Removed During Period (lb)	Cumulative Mass Removed (lb)	Mass Removal Rate (lb/hr)	Cumulative Mass Removal Rate (lbs/hr)
11/1/2023	10:00	5							System Started						
11/1/2023	13:56	9	4	240	3	42	761	1016	36,000	43,271	182,640	493	493	123.3	123.3
11/3/2023	15:08	58	49	2,940	3	47	762	1034	34,000	40,867	2,240,280	5,715	6,209	116.6	117.1
11/9/2023	8:30	196	138	8,280	4	50	750	1028	13,800	16,587	6,210,000	6,430	12,639	46.6	66.2
11/16/2023	14:10	368	172	10,320	4	48	766	1043	16,000	19,231	7,905,120	9,491	22,130	55.2	61.0
11/21/2023	15:08	485	117	7,020	4	53	762	1055	12,000	14,424	5,349,240	4,817	26,947	41.2	56.1
11/27/2023	16:01	633	148	8,880	4	53	765	1059	9,800	11,779	6,793,200	4,995	31,942	33.8	50.9
12/12/2023	8:00	963	330	19,800	4	55	775	1082	7,800	9,375	15,345,000	8,981	40,923	27.2	42.7
1/3/2024	7:30	1,463	500	30,000	4	56	775	1084	7,700	9,255	23,250,000	13,433	54,356	26.9	37.3
1/16/2024	12:30	1,756	293	17,580	4	57	781	1096	7,700	9,255	13,729,980	7,933	62,289	27.1	35.6
1/31/2024	8:27	2,109	353	21,162	4	59	764	1081	6,500	7,813	16,167,768	7,886	70,175	22.4	33.4

Notes

µg/L = micrograms per liter
 lb= pounds
 cfm = cubic feet per minute
 acfm = actual cfm
 scfm = standard cfm
 scf = standard cubic feet
 STP = standard temperature and pressure
 half the detection limit is used

hr = hours
 min = minutes
 in H₂O = inches water column
 psi = pounds per square inch
 °F = degrees Fahrenheit
 °R = degrees Rankine
 ft msl = feet above mean sea level

Conversions

* micrograms per liter = milligrams per cubic meter.
 454 gram / lb
 1.00E+06 ug / gram
 60 min / hr
 28.317 liter / cubic foot
 1000 liter / cubic meter
 35.315 cubic feet / cubic meter
 12 inches per foot water

Flow Conversions

12.5 absolute air pressure at 4280 ft msl, psi
 12.2 absolute air pressure at 5000 ft msl, psi
 14.7 absolute air pressure at 0 ft msl, psi
 13.6 Inches water per inches Hg
 2.31 feet of water (head) per psi
 70 °F, standard temperature
 70 °F, assumed lab temperature
 460 °R

Former Y Station, Clovis New Mexico
 Mass removal calculation (GW lab results)
 System start date November 1, 2023
 Raw water samples are collected prior to the oil-water separator

Date	Time	Effluent Totalizer (gal)	Effluent per period (gal)	Lab Results TPH GRO (mg/L)	Lab Results TPH DRO (mg/L)	Lab Results BTEX (mg/L)	Mass Removed During Period (lb)	Cumulative Mass Removed (lb)	Mass Removal Rate (lbs/day)	Cumulative Mass Removal Rate (lbs/day)	Cumulative Mass Removed (gal)
11/1/2023		0					System Started				
11/1/2023	13:56	3,300	3,300	3.8	NA	1.1	0.11	0	0.6	0.6	0.02
11/3/2023	15:08	42,000	38,700	6.9	NA	2.4	2.24	2	1.1	1.2	0.39
11/9/2023	8:30	133,800	91,800	6.1	2.4	2.9	6.50	9	1.1	1.1	1.47
11/16/2023	14:10	221,900	88,100	7.8	2.8	3.1	7.82	17	1.1	1.1	2.78
11/21/2023	15:08	300,900	79,000	7.0	1.1	2.7	5.36	22	1.1	1.1	3.67
11/27/2023	16:01	385,800	84,900	8.2	<1.0	3.6	5.83	28	1.0	1.1	4.64
12/12/2023	8:00	566,000	180,200	11	2.5	4.6	20.4	48	1.4	1.2	8.04
1/3/2024	7:30	780,000	214,000	5.3	2.3	1.8	13.63	62	0.6	1.0	10.31
1/16/2024	12:30	892,000	112,000	5.6	1.3	1.9	6.47	68	0.5	0.9	11.39
1/31/2024	8:27	1,024,824	132,824	4.1	<1.0	0.07	4.56	73	0.3	0.8	12.15

Notes

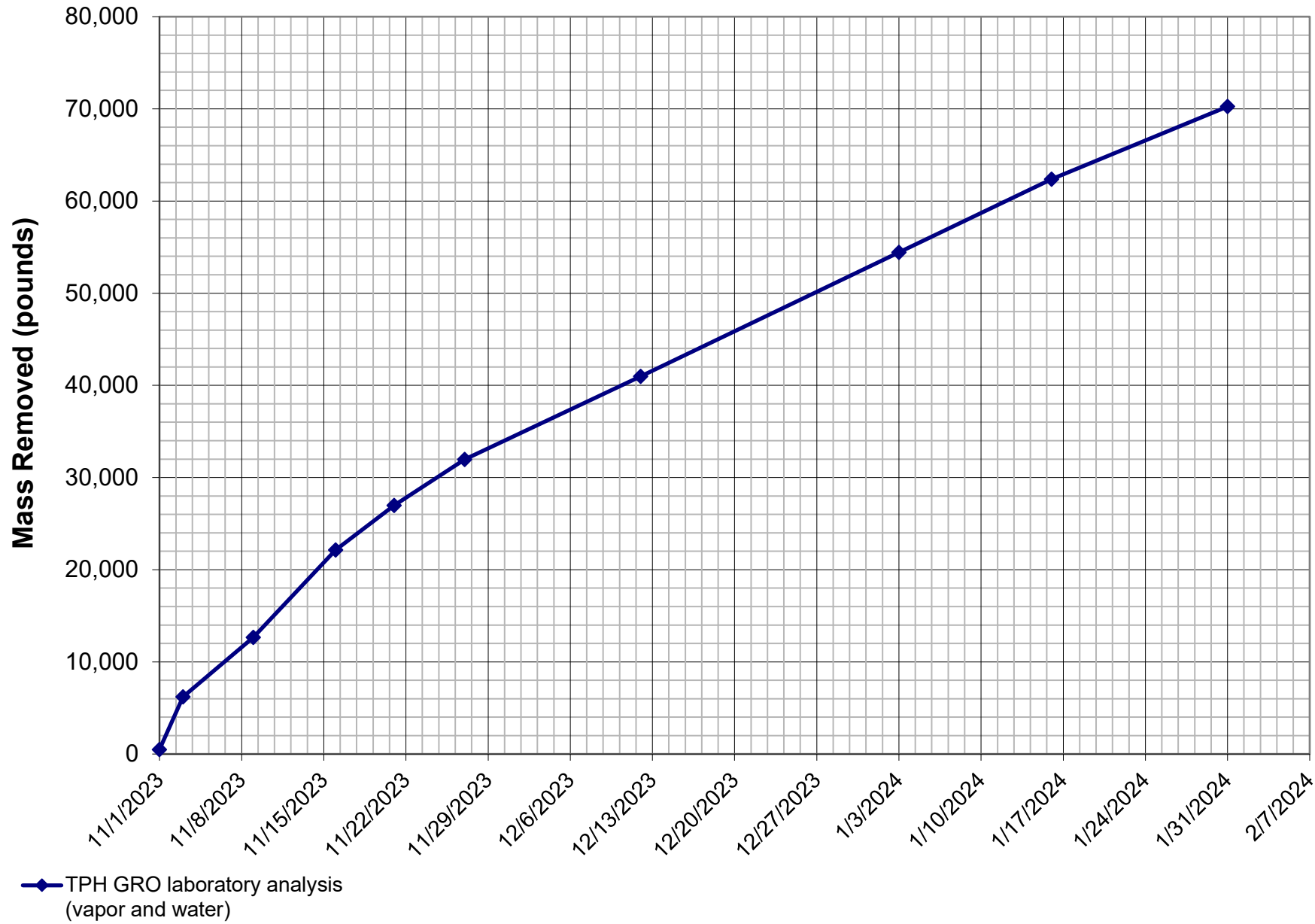
mg/L = milligrams per liter
 lb= pounds
 NA= Not analyzed

Conversions

2.20E-06 lb / mg
 3.8 L / gallon
 6 lb/ gallon (gasoline)

Date	Cumulative Mass Removed (Lab air TPH) (lb)	Cumulative Mass Removed (Lab water TPH+BTEX) (lb)	TOTAL MASS REMOVED (lb)	TOTAL MASS REMOVED (gal)
11/1/2023	493	0	493	82
11/3/2023	6,209	2	6,211	1,035
11/9/2023	12,639	9	12,648	2,108
11/16/2023	22,130	17	22,147	3,691
11/21/2023	26,947	22	26,969	4,495
11/27/2023	31,942	28	31,970	5,328
12/12/2023	40,923	48	40,971	6,829
1/3/2024	54,356	62	54,418	9,070
1/16/2024	62,289	68	62,358	10,393
1/31/2024	70,175	73	70,248	11,708

Conversions
6 lb/ gallon (gasoline)



SVE Systems Operation Data

See Tables Section of this Report

Summary of Analytical Organic Chemistry Data for Soil Vapor

See Tables Section of this Report

Fifth Edition
***Fundamentals
of Fluid Mechanics***

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Appendix C

Properties of the U.S. Standard Atmosphere

■ TABLE C.1
Properties of the U.S. Standard Atmosphere (BG Units)^a

Altitude (ft)	Temperature (°F)	Acceleration of Gravity, g (ft/s ²)	Pressure, p [lb/in. ² (abs)]	Density, ρ (slugs/ft ³)	Dynamic Viscosity, μ (lb·s/ft ²)
-5,000	76.84	32.189	17.554	2.745 E - 3	3.836 E - 7
0	59.00	32.174	14.696	2.377 E - 3	3.737 E - 7
5,000	41.17	32.159	12.228	2.048 E - 3	3.637 E - 7
10,000	23.36	32.143	10.108	1.756 E - 3	3.534 E - 7
15,000	5.55	32.128	8.297	1.496 E - 3	3.430 E - 7
20,000	-12.26	32.112	6.759	1.267 E - 3	3.324 E - 7
25,000	-30.05	32.097	5.461	1.066 E - 3	3.217 E - 7
30,000	-47.83	32.082	4.373	8.907 E - 4	3.107 E - 7
35,000	-65.61	32.066	3.468	7.382 E - 4	2.995 E - 7
40,000	-69.70	32.051	2.730	5.873 E - 4	2.969 E - 7
45,000	-69.70	32.036	2.149	4.623 E - 4	2.969 E - 7
50,000	-69.70	32.020	1.692	3.639 E - 4	2.969 E - 7
60,000	-69.70	31.990	1.049	2.256 E - 4	2.969 E - 7
70,000	-67.42	31.959	0.651	1.392 E - 4	2.984 E - 7
80,000	-61.98	31.929	0.406	8.571 E - 5	3.018 E - 7
90,000	-56.54	31.897	0.255	5.610 E - 5	3.052 E - 7
100,000	-51.10	31.868	0.162	3.318 E - 5	3.087 E - 7
150,000	19.40	31.717	0.020	3.658 E - 6	3.511 E - 7
200,000	-19.78	31.566	0.003	5.328 E - 7	3.279 E - 7
250,000	-88.77	31.415	0.000	6.458 E - 8	2.846 E - 7

linear interpolation
7,000 → 11.38 psi

^aData abridged from *U.S. Standard Atmosphere*, 1976, U.S. Government Printing Office, Washington, D.C.

Conversion unmasked

What is the relationship between $\mu\text{g/L}$ and ppmv ?

By Yue Rong, Ph.D. and Samuel C.T. Yu, D. Env

Soil vapor samples are often analyzed to monitor variation of contaminant concentration and evaluate the effect of vapor extraction. Soil vapor sample results can be reported in either micrograms per liter ($\mu\text{g/L}$) or parts per million by volume (ppmv). What is the relationship between these two units of vapor concentration?

Basic laws:

A. Definition: One mole of a substance is its formula weight in grams, i.e., $\text{MW} \cdot n = g$ (equation one)

B. Ideal Gas Law: $p \cdot V = n \cdot R \cdot T$ (equation two)

Yue Rong, Ph.D., is environmental specialist with the California Regional Water Quality Control Board, Los Angeles Region, and Samuel Yu, D. Env., is project engineer in the Safety and Environmental Protection Office of the Hong Kong University of Science and Technology, Hong Kong.

Where: MW is molecular weight (gram per mold), n is numbers of mole, g is gram, P is total gas pressure (atmosphere unit, or atm), V is volume in liters, R is the gas constant (Liter \cdot atm/ $^{\circ}\text{K} \cdot$ mole), and T is gas temperature ($^{\circ}\text{K}$) ($^{\circ}\text{K} = ^{\circ}\text{C} + 273.15$).

By definition, $\text{ppmv} = \mu\text{V}/\text{V} = \mu\text{L}/\text{L}$.

We are looking for relationship between mass (g) and volume (L). Substitute equation two into one for n:

$g = \text{MW} \cdot (P \cdot V / R \cdot T)$ (equation three)

Given $R = 0.08205 \text{ L} \cdot \text{atm}/^{\circ}\text{K} \cdot \text{mole}$, $T = 293.15^{\circ}\text{K}$ (@ 20°C), $P = 1 \text{ atm}$, equation three becomes:

$g = \text{MW} \cdot V \cdot [P/(R \cdot T)] = \text{MW} \cdot V \cdot [1 / (0.08205 \times 293.15)]$

$= \text{MW} \cdot V / 24.05$ (equation four)

Check units in equation four:

$g = (\text{g}/\text{mole}) \cdot \text{L} \cdot [\text{atm} / ((\text{L} \cdot \text{atm}/^{\circ}\text{K} \cdot \text{mole}) \cdot \text{K}^{\circ})]$

VOC	MW	Conversion Factor (MW/24.05)
GASOLINE	100	4.16
Benzene	78	3.2
Carbon tetrachloride	154	6.4
Chloroform	120	5.0
Dichlorobenzene	147	6.1
Dichlorodifluoromethane (Freon 12)	120	5.0
Dichloroethane (DCA) (all isomers)	99	4.1
Dichloroethylene (DCE) (all isomers)	97	4.0
Methylene chloride	85	3.5
Tetrachloroethylene (PCE)	166	6.9
Trichloroethane (TCA) (all isomers)	134	5.6
Trichloroethylene (TCE)	132	5.5
Trichlorofluoromethane (Freon 11)	137	5.7
Trichlorotrifluoroethane (Freon 113)	186	7.7
Vinyl chloride	63	2.6

Figure 1

Notice V is in liters (L), equation four can be expressed as:

$$g = (\text{MW}/24.05) \cdot \text{L}$$

$$\mu\text{g} = (\text{MW}/24.05) \cdot \mu\text{L}$$

$$\mu\text{g}/\text{L} = (\text{MW}/24.05) \cdot \mu\text{L}/\text{L}$$

i.e., $\mu\text{g}/\text{L} = (\text{MW}/24.05) \cdot \text{ppmv}$ (equation five)

Let X = concentration in ppmv and Y = concentration in $\mu\text{g}/\text{L}$, and equation five becomes:

$$Y (\mu\text{g}/\text{L}) = (\text{MW}/24.05) \cdot X (\text{ppmv}) \text{ (equation six)}$$

ppb

Equation six converts soil vapor concentration from ppmv to $\mu\text{g}/\text{L}$, or vice versa. In order to use this equation, it is necessary to know molecular weight of a particular compound. Figure one, above, shows the conversion factor of (MW/24.05) in equation six for some common VOCs. For example, if vapor concentration is measured in 100 ppmv for PCE, then PCE concentration is also equal to $6.9 \times 100 = 690 \mu\text{g}/\text{L}$.



MEMORANDUM

TO: Gundar Peterson, PE

FROM: Tom Golden, Kelly Isaacson

DATE: January 29, 2010

SUBJECT: Rotameter flow measurement

In response to Katherine MacNeil's email, we researched the apparent discrepancy between standard cubic feet per minute (SCFM) measurements given by a rotameter and the SCFM calculated by AcuVac in their soil vapor extraction (SVE) pilot test reports. The results of our research are summarized below

Definition of variables

ACFM: actual cubic feet per minute (cfm) at a given temperature, pressure (elevation), and operating conditions

CFM_{meter}: cubic feet per minute (cfm) measured by a rotameter. In the documentation provided, this is also called observed cfm and indicated scfm.

SCFM: equivalent flow in cubic feet per minute (cfm) at STP

STP: standard temperature and pressure, 70°F and 14.7 psi.

ρ : density of a fluid, given in mass per unit volume

Problem statement

In the AMEC calculation provided regarding cfm measured with a rotameter, the author reports that the correct reporting unit from a rotameter calibrated for STP is SCFM. The AcuVac documentation refers to the flow rate measured with a rotameter as ACFM and converts this value to SCFM in the field. Does the value measured on the rotameter by AcuVac need to be converted to SCFM?

Solution

The need for the definition of three different types of CFM arises from the difference in calibration versus operation temperature and pressure conditions.

An analysis of the free body diagram of the float in a rotameter is given by Wellin¹, which shows that Q is dependent on the area of flow and density of air:

$$Q = K \cdot \frac{A}{\sqrt{\rho}} \quad (1)$$

When a rotameter is calibrated at STP, $\sqrt{\rho}$ is absorbed into the value of K , because ρ (air) is defined. When the density of the air is changed (i.e. elevation of the rotameter is changed), the



calibrated rotameter no longer yields flow rate in SCFM, but instead what we will call CFM_{meter}.

The Dwyer technical documentation² for the VFC series rotameter used by AcuVac acknowledges this fact in the third paragraph under “Operation”, which states,

“the flowmeter is calibrated to operate at a specific set of conditions, and deviation from those standard conditions will require correction for the calibration to be valid. In practice, the reading taken from the flowmeter scale must be corrected back to standard conditions to be used with the scale units. The correct location to measure the actual pressure and temperature is at the exit of the flowmeter, except under vacuum applications where they should be measured at the flowmeter inlet.”

The conversion given to convert CFM_{meter} to SCFM^{1,2} is a non linear relationship:

$$Q(SCFM) = CFM_{meter} \sqrt{\frac{P_{actual}}{P_{calibration}} \cdot \frac{T_{calibration}}{T_{actual}}} \quad (2)$$

It can be noted that the calibration temperature and pressure are generally STP; however, calibration information should be provided by the flowmeter manufacturer

The relationship between SCFM and ACFM is linear:

$$ACFM = SCFM \frac{P_{standard}}{P_{actual}} \cdot \frac{T_{actual}}{T_{standard}} \quad (3)$$

For completeness, the relationship between ACFM and CFM_{meter} is given by

$$ACFM = CFM_{meter} \sqrt{\frac{P_{standard}}{P_{actual}} \cdot \frac{T_{actual}}{T_{standard}}} \quad (4)$$

Supporting documentation

Two Dwyer specification sheets for rotameters² (including the VFC Series Visi-Float used by AcuVac) are attached, which include the calculation of SCFM from the meter reading. This calculation is also discussed in Wellin¹

The correct conversion from SCFM to ACFM is included in the documentation with the AMEC calculation (page 3 of 4 from King Correction Formulae & Sizing)³, as well as in Wellin¹.

Implications

The primary problem here is one of terminology, although there are implications if formulas in either the AcuVac or AMEC documents were used to back-calculate ACFM/SCFM values. Although it may not be intuitive, ACFM is not the value read straight from the meter, rather the



calculated actual volumetric flow rate through the meter.

Page 2 of the AMEC calculation gives an equation to calculate ACFM. This non-linear equation is the correct way to calculate ACFM from CFM_{meter} . It is not the correct way to calculate SCFM from ACFM or vice versa.

For most SVE applications in New Mexico (i.e. 3000-7000 feet elevation, air temperature of 50-70°F), the value of CFM_{meter} falls between the ACFM and SCFM, such that $ACFM > CFM_{\text{meter}} > SCFM$.

In the design equation given in the AMEC calculation

$$Q = kA(gh)^{0.5} \quad (5)$$

the fluid density, $\rho(\text{air})$, is included in the calibration coefficient, k , a fact which is not acknowledged by the AMEC calculation. While the equation is valid for the calibration conditions, the flow rate read from the meter must be corrected as indicated above in equation 2 to reflect the correct SCFM.

Conclusions

In the problem statement of the AMEC calculation regarding CFM used in SVE systems, the correct answer to the question “What is the correct reporting unit directly read off the scale; SCFM, ACFM, or other?” is “other”, and in this discussion is termed CFM_{meter} .

Additionally, AcuVac is correct in converting the CFM value read on the flowmeter to SCFM to adjust for changes in temperature and pressure, with the non-linear relationship given above, although what they call ACFM in their sample calculation is actually CFM_{meter} .

In summary, both the SCFM value in the AMEC calculation⁴ and the ACFM value in the AcuVac report⁵ refer to the value measured at the flowmeter, CFM_{meter} , therefore, both equations provided are true, but do not represent the actual relationship between true SCFM and ACFM.

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Appendix G—Density Correction

Velocity is generally expressed in one of two ways. actual (true) velocity or standard velocity. Actual velocity is the average speed at which the molecules are traveling. Standard velocity is referenced to standard conditions (using a reference of 70°F [21.1°C] and 29.92 in. Hg [101.4 kPa]) and is equal to the actual velocity of the air only when the air is at standard density. The Alnor calibration facilities adjust the actual velocity so that the same number of molecules per unit time are passing over the probe, as if the density were standard density. This makes the instruments display standard velocity.

As a practical matter, many users do not concern themselves with standard versus actual air velocity corrections unless the density of air in their application is more than 10 percent different from standard air density.

Density Correction for Thermo-Anemometers

Thermo-anemometer sensors measure mass air flow velocity which is a measurement of the air mass moving past the sensor and is displayed as standard velocity. Air mass is what gives air its heat holding capacity. Since thermal anemometers measure air mass and display it as standard velocity, many people doing measurements on indoor air are more concerned with standard air velocity.

Standard readings can be converted to actual air velocity to compensate for temperature and barometric pressures. Actual or standard measurements will give the same readings at standard conditions (using a reference of 70°F [21.1°C] and 29.92 in. Hg [101.4 kPa]), but not if pressure or temperature stray from standard conditions.

To calculate actual air velocity, multiply the standard velocity reading indicated by the thermo-anemometer by the following density correction factor:

$$\text{Actual Velocity} = (\text{Standard Velocity}) [(460 + T) / (460 + 70)] \times 29.92 / P_m$$

or

$$\text{Actual Velocity} = (\text{Standard Velocity}) [(273 + T_m) / (273 + 21.1)] \times 101.4 / P$$

Where:

- T = Ambient temperature in degrees Fahrenheit
- P_m = Ambient pressure in inches of Hg.
- T_m = Ambient temperature in degrees Centigrade
- P = Ambient pressure in kPa

Density Correction for Pressure Based Manometers or Deflecting Vane Anemometers

Manometers and deflecting vane anemometers read a nominal velocity that is neither standard nor actual, but a combination of both. This is the velocity read by any Pitot tube and pressure device that does not perform a density correction.

When Bernoulli's equation is applied to the Pitot-static probe, the resultant equation has the form $\text{fpm} = 4005 \sqrt{\Delta P (\text{in. H}_2\text{O})}$ ($\text{m/s} = 1.29 \sqrt{\Delta P (\text{Pa})}$) when the density of the air is 0.075 lb/ft³ (0.366 kgs/m³). The velocity values displayed by the pressure instrument are the actual velocities *only* if the density where the Pitot probe measurements are being taken is 0.075 lb/ft³ (0.366 kgs/m³). Otherwise, a correction step must be performed to obtain a correct value.

Nominal velocity is a velocity reading that is between actual and standard velocity. It is a good estimation of the actual or standard velocity. Nominal measurements are made using a pitot tube.

Actual velocity is the velocity at which a molecule would be traveling in the air stream.

Standard velocity is the velocity as if the measurement was taken with a thermal anemometer at standard temperature and barometric pressure.

Appendix F

Sampling Protocol

Appendix F. Sampling Protocol

Fluid Level and Parameter Measurements

Prior to collection of groundwater samples, a Solinst interface probe or equivalent device will be used to determine depths to water and nonaqueous-phase liquid (NAPL), if present. Water level data will be used to construct a site potentiometric surface map. A YSI 556 Multi-Probe System (MPS) water quality meter or equivalent device will be used to measure specific conductivity, pH, temperature, dissolved oxygen (DO), and oxidation/reduction potential (ORP). Field parameters are measured one time during sample collection via HydraSleeve or via sample port at the wellhead.

Groundwater Monitor Well Sampling

Samples from remediation wells equipped with pumps are sampled using the sample tap at the wellhead while the remediation pump is running. All other wells are sampled using dedicated, disposable HydraSleeves with dedicated tethers and weights. HydraSleeves are installed in wells and are removed after 24 hours. To minimize volatilization and ensure sample integrity, the sample bag is pierced with a straw to transfer groundwater samples from the bailers to the appropriate sample containers.

Samples analyzed for volatile organic analytes (VOAs) will be collected in 40-milliliter (mL) glass vials containing hydrochloric acid preservative and capped with Teflon septa caps. Samples analyzed for 1,2-dibromoethane (EDB) are collected in two 40-milliliter (mL) glass vials containing sodium thiosulfate preservative and capped with Teflon septa caps. VOA containers will be filled in a manner that prevents headspace in the vials.

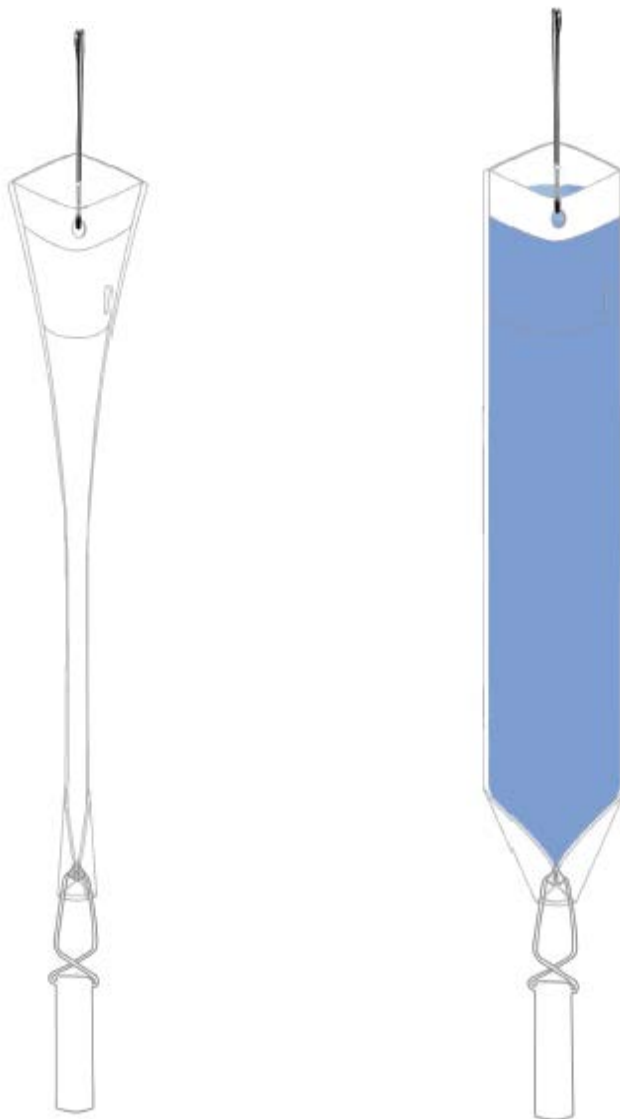
Immediately after collection, the sample containers will be placed on ice in an insulated cooler for delivery to the laboratory for analyses. Groundwater samples will be accompanied by full chain of custody documentation at all times.

HYDRASleeve™

Simple by Design

US Patent No. 6,481,300; No. 6,837,120; No. 9,726,013; others pending

Standard Operating Procedure: Sampling Groundwater with a HydraSleeve



This guide should be used in addition to field manuals and instructions appropriate to the chosen sampling device (i.e., HydraSleeve, SpeedBag or Super/Skinny Sleeve and W3 HybridSleeve).

Find the appropriate field manual and instructions on the HydraSleeve website at <http://www.hydrasleeve.com>.

For more information about the HydraSleeve, or if you have questions, contact:
GeoInsight, P.O. Box 1266, Mesilla Park, NM 88047
800-996-2225, info@hydrasleeve.com.

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Table of Contents

Introduction	1
Applications of the HydraSleeve	1
Description of the HydraSleeve	3
Selecting the HydraSleeve Size to Meet Site-Specific Sampling Objectives.....	4
HydraSleeve Deployment	5
Information Required Before Deploying a HydraSleeve.....	5
HydraSleeve Placement.....	6
Procedures for Sampling with the HydraSleeve	8
Measurement of Field Indicator Parameters.....	11
Alternate Deployment Strategies.....	11
Post-Sampling Activities.....	14
References	15

Introduction

The HydraSleeve is classified as a no-purge (passive) grab sampling device, meaning that it is used to collect groundwater samples directly from the screened interval of a well without having to purge the well prior to sample collection. When it is used as described in this Standard Operating Procedure (SOP), the HydraSleeve causes no drawdown in the well (until the sample is withdrawn from the water column) and only minimal disturbance of the water column, because it has a very thin cross section and it displaces very little water (<100 ml) during deployment in the well. The HydraSleeve collects a sample from within the screen only. It excludes water from any other part of the water column in the well through the use of a self-sealing check valve at the top of the sampler. It is a single-use (disposable) sampler that is not intended for reuse, so there are no decontamination requirements for the sampler itself.

The use of no-purge sampling as a means of collecting representative groundwater samples depends on the natural movement of groundwater (under ambient hydraulic head) from the formation adjacent to the well screen through the screen. Robin and Gillham (1987) demonstrated the existence of a dynamic equilibrium between the water in a formation and the water in a well screen installed in that formation, which results in formation-quality water being available in the well screen for sampling at all times. No-purge sampling devices like the HydraSleeve collect this formation-quality water as the sample, under undisturbed (non-pumping) natural flow conditions. Samples collected in this manner generally provide more conservative (i.e., higher concentration) values than samples collected using well-volume purging, and values equivalent to samples collected using low-flow purging and sampling (Parsons, 2005).

Applications of the HydraSleeve

The HydraSleeve can be used to collect representative samples of groundwater for all analytes (volatile organic compounds [VOCs], semi-volatile organic compounds [SVOCs], common metals, trace metals, major cations and anions, dissolved gases, total dissolved solids, radionuclides, pesticides, PCBs, explosive compounds, and all other analytical parameters). Designs are available to collect samples from wells from 1" inside diameter and larger. The HydraSleeve can collect samples from wells of any yield, but it is especially well-suited to collecting samples from low-yield wells, where other sampling methods can't be used reliably because their use results in dewatering of the well screen and alteration of sample chemistry (McAlary and Barker, 1987).

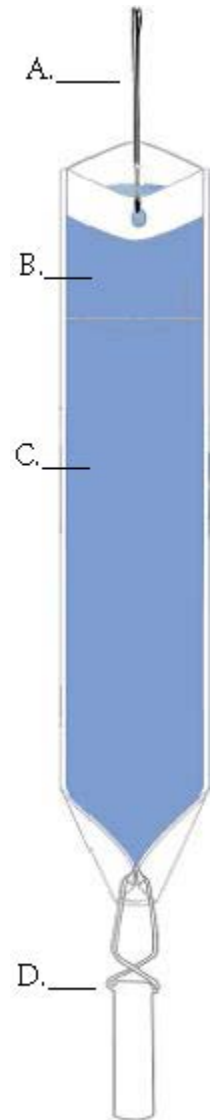
The HydraSleeve can collect samples from wells of any depth, and it can be used for single-event sampling or long-term groundwater monitoring programs. Because of its thin cross section and flexible construction, it can be used in narrow, constricted or damaged wells where rigid sampling devices may not fit. Using multiple HydraSleeves deployed in series along a single suspension line or tether, it is also possible to conduct in-well vertical profiling in wells in which contaminant concentrations are thought to be stratified.

As with all groundwater sampling devices, HydraSleeves should not be used to collect groundwater samples from wells in which separate (non-aqueous) phase hydrocarbons (i.e., gasoline, diesel fuel or jet fuel) are present because of the possibility of incorporating some of the separate-phase hydrocarbon into the sample.

Description of the HydraSleeve

The basic HydraSleeve (Figure 1) consists of the following components*:

- A suspension line or tether (A.), attached to the spring clip or directly to the top of the sleeve to deploy the device into and recover the device from the well. Tethers with depth indicators marked in 1-foot intervals are available from the manufacturer.
- A long, flexible, 4-mil thick lay-flat polyethylene sample sleeve (C.) sealed at the bottom (this is the sample chamber), which comes in different sizes, as discussed below with a self-sealing reed-type flexible polyethylene check valve built into the top of the sleeve (B.) to prevent water from entering or exiting the sampler except during sample acquisition.
- A reusable stainless-steel weight with clip (D.), which is attached to the bottom of the sleeve to carry it down the well to its intended depth in the water column. Bottom weights available from the manufacturer are 0.75" OD and are available in a variety of sizes. An optional top weight may be attached to the top of the HydraSleeve to carry it to depth and to compress it at the bottom of the well (not shown in Figure 1);
- A discharge tube that is used to puncture the HydraSleeve after it is recovered from the well so the sample can be decanted into sample bottles (not shown).
- Just above the self-sealing check valve at the top of the sleeve are two holes which provide attachment points for the spring clip and/or suspension line or tether. At the bottom of the sample sleeve are two holes which provide attachment points for the weight clip and weight.



*Other configurations such as top weighted assemblies, Super/SkinnySleeves, Speedbags, and W3 Hybrids are available.

Note: The sample sleeve and the discharge tube are designed for one-time use and are disposable. The spring clip, weight and weight clip may be reused after thorough cleaning. Suspension cord is generally disposed after one use although, if it is dedicated to the well, it may be reused at the discretion of the sampling personnel.

Selecting the HydraSleeve Size to Meet Site-Specific Sampling Objectives

It is important to understand that each HydraSleeve is able to collect a finite volume of sample because, after the HydraSleeve is deployed, you only get one chance to collect an undisturbed sample. Thus, the volume of sample required to meet your site-specific sampling and analytical requirements will dictate the size of HydraSleeve you need to meet these requirements.

Table 1. Dimensions and Volumes of HydraSleeve Models.

Diameter	Volume	Length	Lay-Flat Width	Filled Dia.
<i>2-Inch HydraSleeves</i>				
Standard 600 mls HydraSleeve	~600mls	30"	2.5"	1.4"
Standard 1-liter HydraSleeve	~1 Liter	38"	3"	1.9"
Super/SkinnySleeve 1-liter	~1 Liter	38"	2.5"	1.5"*
Super/SkinnySleeve 1.5-liter	~1.5 Liters	52"	2.5"	1.5"*
Super/SkinnySleeve 2-liter	~2 Liters	66"	2.5"	1.5"*
<i>4-Inch HydraSleeves</i>				
Standard 2.5 liter	~2 Liters	38"	4"	2.7"

* outside diameter on the Heavy Duty Universal Super/SkinnySleeves is 1.5" however when using with schedule 40 hardware the O.D. of the assembly will be 1.9"

It's also recommended that you size the diameter of the HydraSleeve according to the diameter of the well (i.e. use 2-inch HydraSleeves in 2-inch wells). Using smaller sleeves in larger diameter wells (i.e. 2-inch HydraSleeves in 4-inch wells) will result in a longer fill rate and will require special retrieval instructions (explained later).

The volume of sample collected by the HydraSleeve varies with the diameter and length of the HydraSleeve. Dimensions and volumes of available HydraSleeve models are detailed in Table 1.

HydraSleeves can be custom-fabricated by GeoInsight in varying diameters and lengths to meet specific volume requirements. HydraSleeves can also be deployed in series (i.e., multiple HydraSleeves attached to one tether) to collect additional sample to meet specific volume requirements, as described below.

If you have questions regarding the availability of sufficient volume of sample to satisfy laboratory requirements for analysis, it is recommended that you contact the laboratory to discuss the minimum volumes needed for each suite of analytes. Laboratories often require only 10% to 25% of the volume they specify to complete analysis for specific suites of analytes, so they can often work with much smaller sample volumes that can easily be supplied using a HydraSleeve.

HydraSleeve Deployment

Information Required Before Deploying a HydraSleeve

Before installing a HydraSleeve in any well, you will need to know the following:

- The inside diameter of the well
- The length of the well screen
- The water level in the well
- The position of the well screen in the well
- The total depth of the well

The inside diameter of the well is used to determine the appropriate HydraSleeve diameter for use in the well. The other information is used to determine the proper placement of the HydraSleeve in the well to collect a representative sample from the screen (see HydraSleeve Placement, below), and to determine the appropriate length of tether to attach to the HydraSleeve to deploy it at the appropriate position in the well.

Most of this information (with the exception of the water level) should be available from the well log; if not, it will have to be collected by some other means. The inside diameter of the well can be measured at the top of the well casing, and the total depth of the well can be measured by sounding the bottom of the well with a weighted tape. The position and length of the well screen may have to be determined using a down-hole camera if a well log is not available. The water level in the well can be measured using any commonly available water-level gauge.

HydraSleeve Placement

The HydraSleeve is designed to collect a sample directly from the well screen. It fills by pulling it up through the screen a distance equivalent to the length of the sampler when correctly sized to the well diameter. This upward motion causes the top check valve to open, which allows the device to fill. To optimize sample recovery, it is recommended that the HydraSleeve be placed in the well so that the bottom weight rests on the bottom of the well and the top of the HydraSleeve is as close to the bottom of the well screen as possible. This should allow the sampler to fill before the top of the device reaches the top of the screen as it is pulled up through the water column, and ensure that only water from the screen is collected as the sample. In short-screen wells, or wells with a short water column, it may be necessary to use a top-weight on the HydraSleeve to compress it in the bottom of the well so that, when it is recovered, it has room to fill before it reaches the top of the screen.

Example

2" ID PVC well, 50' total depth, 10' screen at the bottom of the well, with water level above the screen (the entire screen contains water).

Correct Placement (figure 2): Using a standard HydraSleeve for a 2" well (2.5" flat width/1.5" filled OD x 30" long, 600 ml volume), deploy the sampler so the weight (a 5 oz., 2.5" long weight with a 2" long clip) rests at the bottom of the well. The top of the sleeve is thus set at ~34" above the bottom of the well. When the sampler is recovered, it will be pulled upward approximately 30" before it is filled; therefore, it is full (and the top check valve closes) at approximately 64" (5.3 feet) above the bottom of the well, which is well before the sampler reaches the top of the screen. In this example, only water from the screen is collected as a sample.

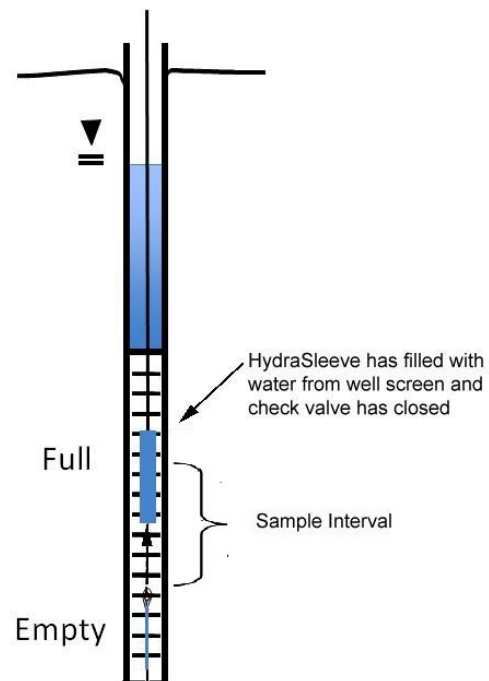


Figure 2. Correct Placement of HydraSleeve.

Incorrect Placement (figure 3): If the well screen in this example was only 5' long, and the HydraSleeve was placed as above, it would not fill before the top of the device reached the top of the well screen, so the sample would include water from above the screen, which may not have the same chemistry.

The solution? Deploy the HydraSleeve with a top weight, so that it is collapsed to within 6" of the bottom of the well. When the HydraSleeve is recovered, it will fill within 36" (3 feet) from the bottom of the well, or 2-feet before the sampler reaches the top of the screen, so it collects only water from the screen as the sample.

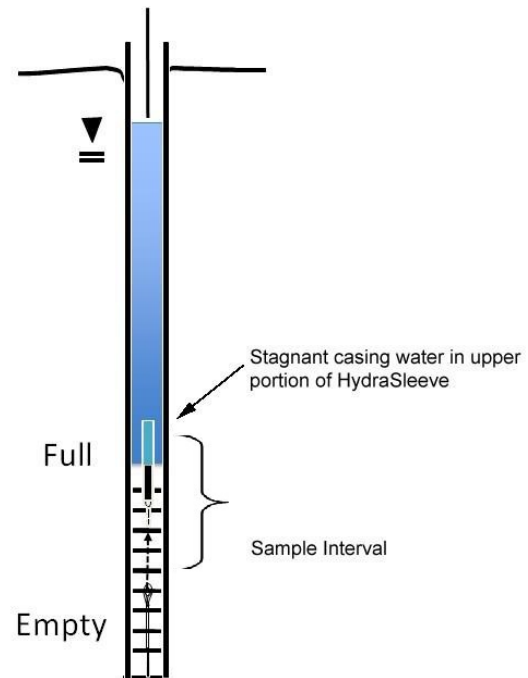


Figure 3. Incorrect placement of HydraSleeve.

This example illustrates one of many types of HydraSleeve placements. More complex placements are discussed in a later section.

NOTE: Using smaller diameter HydraSleeves (2-inch) in larger diameter wells (4-inch) causes a slower fill rate. Special retrieval methods are necessary if this is your set up (shown later in this document).

Procedures for Sampling with the HydraSleeve

Collecting a groundwater sample with a HydraSleeve is usually a simple one-person operation.

Note: Before deploying the HydraSleeve in the well, collect the depth-to-water measurement that you will use to determine the preferred position of the HydraSleeve in the well. This measurement may also be used with measurements from other wells to create a groundwater contour map. If necessary, also measure the depth to the bottom of the well to verify actual well depth to confirm your decision on placement of the HydraSleeve in the water column.

Measure the correct amount of tether needed to suspend the HydraSleeve in the well so that the weight will rest on the bottom of the well (or at your preferred position in the well). Make sure to account for the need to leave a few feet of tether at the top of the well to allow recovery of the sleeve.

Note: Always wear sterile gloves when handling and discharging the HydraSleeve.

I. Assembling the Basic HydraSleeve*

1. Remove the HydraSleeve from its packaging, unfold it, and hold it by its top.
2. Crimp the top of the HydraSleeve by folding the hard polyethylene reinforcing strips at the holes.
3. Attach the spring clip to the holes to ensure that the top will remain open until the sampler is retrieved.
4. Attach the tether to the spring clip by tying a knot in the tether.

Note: Alternatively, if spring clips are not being utilized, attach the tether to one (NOT both) of the holes at the top of the Hydrasleeve by tying a knot in the tether.

5. Fold the flaps with the two holes at the bottom of the HydraSleeve together to align the holes and slide the weight clip through the holes.
6. Attach a weight to the bottom of the weight clip to ensure that the HydraSleeve will descend to the bottom of the well.

*See Super/SkinnySleeve assembly manual and HydraSleeve Field Manual for other assembly instructions.

II. Deploying the HydraSleeve

1. Using the tether, carefully lower the HydraSleeve to the bottom of the well, or to your preferred depth in the water column

During installation, hydrostatic pressure in the water column will keep the self-sealing check valve at the top of the HydraSleeve closed, and ensure that it retains its flat, empty profile for an indefinite period prior to recovery.

Note: Make sure that it is not pulled upward at any time during its descent. If the HydraSleeve is pulled upward at a rate greater than 0.5'/second at any time prior to recovery, the top check valve will open and water will enter the HydraSleeve prematurely.

2. Secure the tether at the top of the well by placing the well cap on the top of the well casing and over the tether.

Note: Alternatively, you can tie the tether to a hook on the bottom of the well cap (you will need to leave a few inches of slack in the line to avoid pulling the sampler up as the cap is removed at the next sampling event).

III. Equilibrating the Well

The equilibration time is the time it takes for conditions in the water column (primarily flow dynamics and contaminant distribution) to restabilize after vertical mixing occurs (caused by installation of a sampling device in the well).

- **Situation:** The HydraSleeve is deployed for the first time or for only one time in a well

The basic HydraSleeve is very thin in cross section and displaces very little water (<100 ml) during deployment so, unlike most other sampling devices, it does not disturb the water column to the point at which long equilibration times are necessary to ensure recovery of a representative sample.

In some cases, like when using the SpeedBags, the HydraSleeve can be recovered immediately (with no equilibration time) or within a few hours. In regulatory jurisdictions that impose specific requirements for equilibration times prior to recovery of no-purge sampling devices, these requirements should be followed.

NOTE: If using top weights additional equilibration time is needed to allow the top weight time to compress the HydraSleeve into the bottom of the well.

- **Situation:** The HydraSleeve is being deployed for recovery during a future sampling event.

In periodic (i.e., quarterly, semi-annual, or annual) sampling programs, the sampler for the current sampling event can be recovered and a new sampler (for the next sampling event) deployed immediately thereafter, so the new sampler remains in the well until the next sampling event.

Thus, a long equilibration time is ensured and, at the next sampling event, the sampler can be recovered immediately. This means that separate mobilizations, to deploy and then to recover the sampler, are not required. HydraSleeves can be left in a well for an indefinite period of time without concern.

IV. HydraSleeve Recovery and Sample Collection

1. Hold on to the tether while removing the well cap.
2. Secure the tether at the top of the well while maintaining tension on the tether (but without pulling the tether upwards)
3. Measure the water level in the well.
4. Use one of the following 3 retrieval methods. In all 3 scenarios, when the HydraSleeve is full, the top check valve will close. You should begin to feel the weight of the HydraSleeve on the tether and it will begin to displace water. The closed check valve prevents loss of sample and entry of water from zones above the well screen as the HydraSleeve is recovered.
 - a. In one smooth motion, pull the tether up 30"-60" (the length of the sampler) at a rate of about 1 foot per second (or faster). The motion will open the top check valve and allow the HydraSleeve to fill (it should fill in about 1:1 ratio or the length of the HydraSleeve if the sleeve is sized to fit the well). This is analogous to coring the water column in the well from the bottom up.
 - b. There are times it is recommended that the HydraSleeve be oscillated in the screen zone to ensure it is full before leaving the screen area. Pull up 1-3 feet, let the sleeve assembly drop back down and repeat 3-5 times before pulling the sleeve to the surface. The collection zone will be the oscillation zone. ***When in doubt use this retrieval method.***
 - c. SpeedBags require check valve activation and oscillation during recovery: When retrieving the SpeedBag, pull up hard 1-2 feet to open the check valve; let the assembly drop back down to the starting point; REPEAT THIS PROCESS 4 TIMES; and then quickly recover the SpeedBag through the well screen to the surface.
5. Continue pulling the tether upward until the HydraSleeve is at the top of the well.
6. Discard the small volume of water trapped in the Hydrasleeve above the check valve by pinching it off at the top under the stiffeners (above the check valve).

v. Sample Discharge

NOTE: Sample collection should be done immediately after the HydraSleeve has been brought to the surface to preserve sample integrity.

Be sure you have discarded the water sitting above the check valve – see step #6 above.

1. Remove the discharge tube from its sleeve.
2. Hold the HydraSleeve at the check valve
3. Puncture the HydraSleeve at least 3-4 inches below the reinforcement strips with the pointed end of the discharge tube. NOTE: For some contaminants (VOC's/sinkers) the best location for discharge is the middle to bottom of the sampler. This would be representative of the deeper portion of the well screen.
4. Discharge water from the HydraSleeve into your sample containers. Control the discharge from the HydraSleeve by either raising the bottom of the sleeve, by squeezing it like a tube of toothpaste, or both.
5. Continue filling sample containers until all are full.

Measurement of Field Indicator Parameters

Field indicator parameter measurement is generally done during well purging and sampling to confirm when parameters are stable and sampling can begin. Because no-purge sampling does not require purging, field indicator parameter measurement is not necessary for the purpose of confirming when purging is complete.

If field indicator parameter measurement is required to meet a specific non-purging regulatory requirement, it can be done by taking measurements from water within a HydraSleeve that is not used for collecting a sample to submit for laboratory analysis (i.e., a second HydraSleeve installed in conjunction with the primary sample collection HydraSleeve [see Multiple Sampler Deployment below]).

Alternate Deployment Strategies

Deployment in Wells with Limited Water Columns

For wells in which only a limited water column needs to be sampled, the HydraSleeve can be deployed with an optional top weight in addition to a bottom weight. The top weight will collapse the HydraSleeve to a very short (approximately 6" to 24") length, depending on the length and volume of the sampler. This allows the HydraSleeve to fill in a water column only 3' to 10' in height (again) depending on the sampler size. Note the SuperSleeves accomplish the same thing but provide greater sample volume at a lower per sample cost.

Multiple Sampler Deployment

Multiple sampler deployment in a single well screen can accomplish two purposes:

1. It can collect additional sample volume to satisfy site or laboratory-specific sample volume requirements.
2. It can be used to collect samples from multiple intervals in the screen to allow identification of possible contaminant stratification.

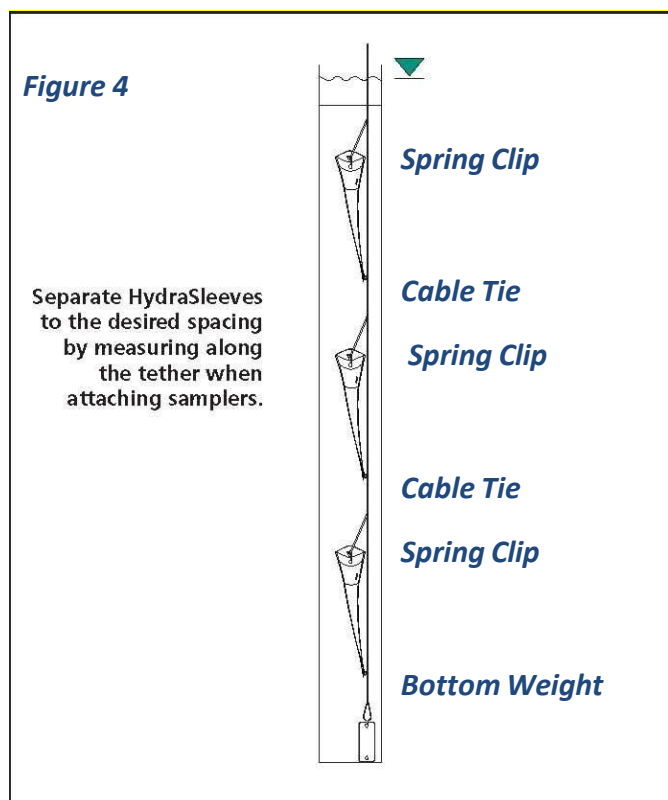


Figure 5. Multiple HydraSleeve deployment

If there is a need for only 2 samplers, they can be installed as follows. The first sampler can be attached to the tether as described above, a second attached to the bottom of the first using your desired length of tether between the two and the weight attached to the bottom of the second sampler (figure 6). This method can only be used with 2 samplers; 3 or more HydraSleeves in tandem need to be attached as described above.

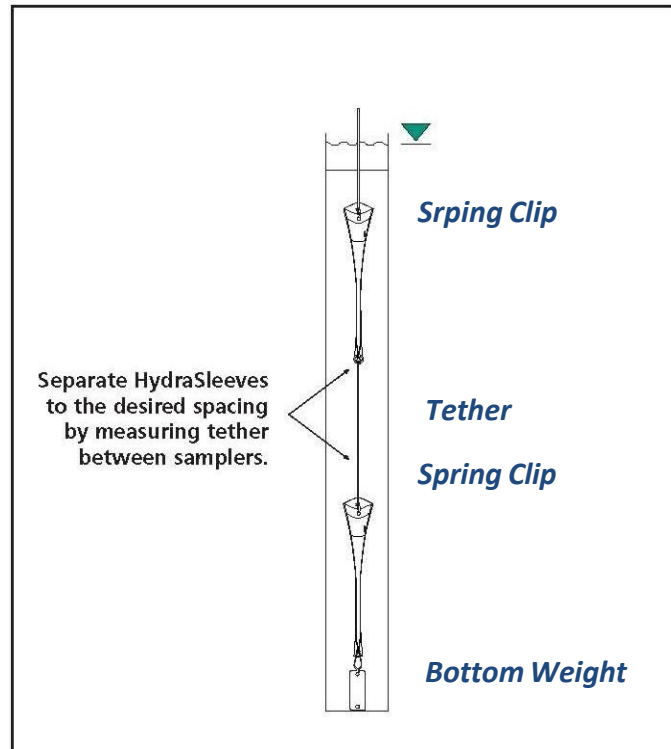


Figure 5. Alternative method for deploying multiple HydraSleeves.

In either case, when attaching multiple HydraSleeves in series, more weight will be required to hold the samplers in place in the well than would be required with a single sampler. Recovery of multiple samplers and collection of samples is done in the same manner as for single sampler deployments.

Post-Sampling Activities

The recovered HydraSleeve and the sample discharge tubing should be disposed as per the solid waste management plan for the site. To prepare for the next sampling event, a new HydraSleeve can be deployed in the well (as described previously) and left in the well until the next sampling event, at which time it can be recovered.

The weight and weight clip can be reused on this sampler after they have been thoroughly cleaned as per the site equipment decontamination plan. The tether may be dedicated to the well and reused or discarded at the discretion of sampling personnel.

References

McAlary, T. A. and J. F. Barker, 1987, Volatilization Losses of Organics During groundwater Sampling From Low-Permeability Materials, groundwater Monitoring Review, Vol. 7, No. 4, pp. 63-68

Parsons, 2005, Results Report for the Demonstration of No-Purge groundwater Sampling Devices at Former McClellan Air Force Base, California; Contract F44650-99-D-0005, Delivery Order DKO1, U.S. Army Corps of Engineers (Omaha District), U.S. Air Force Center for Environmental Excellence, and U.S. Air Force Real Property Agency

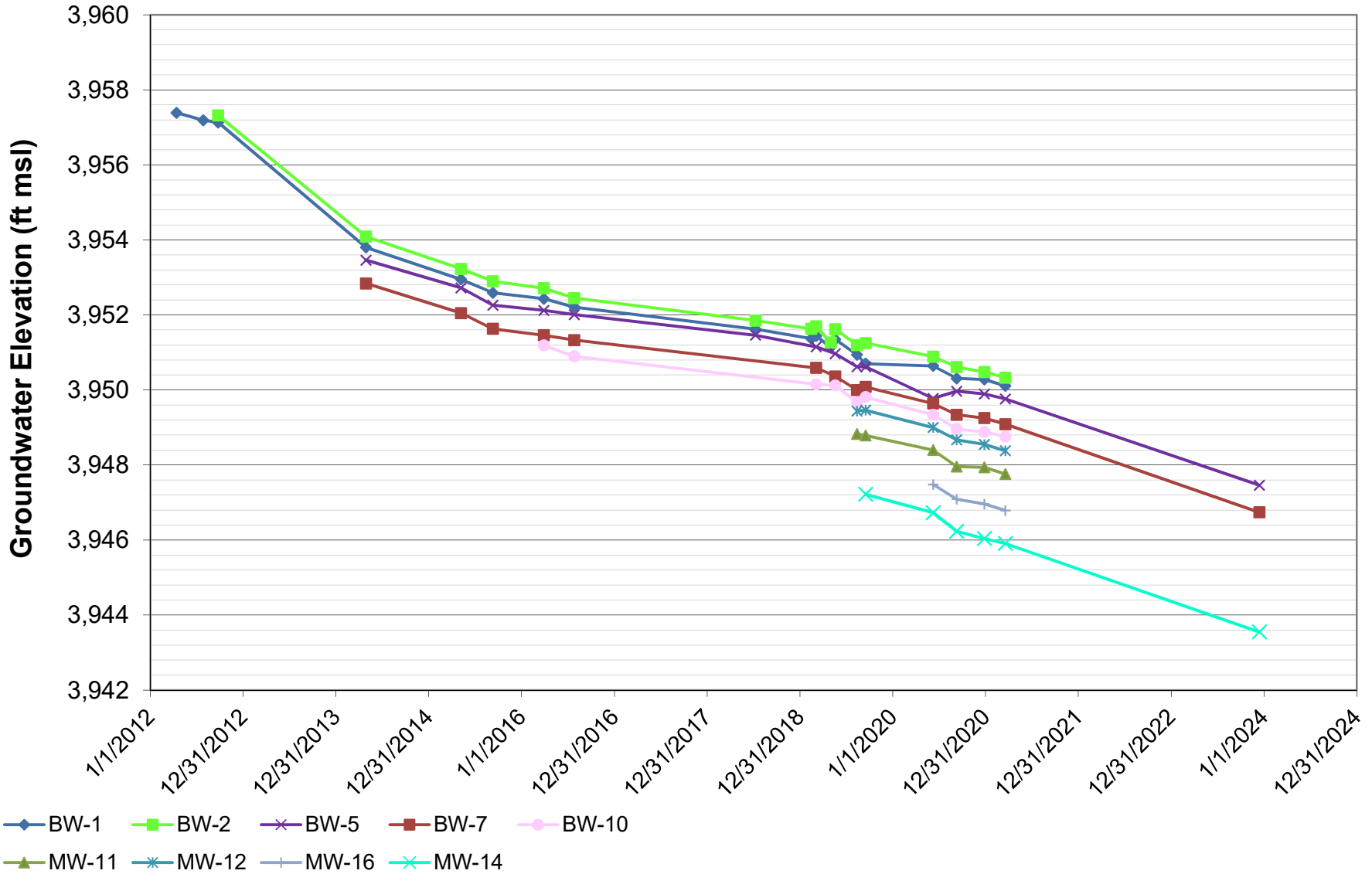
Robin, M. J. L. and R. W. Gillham, 1987, Field Evaluation of Well Purging Procedures, groundwater Monitoring Review, Vol. 7, No. 4, pp. 85-93

Appendix G

Graphs

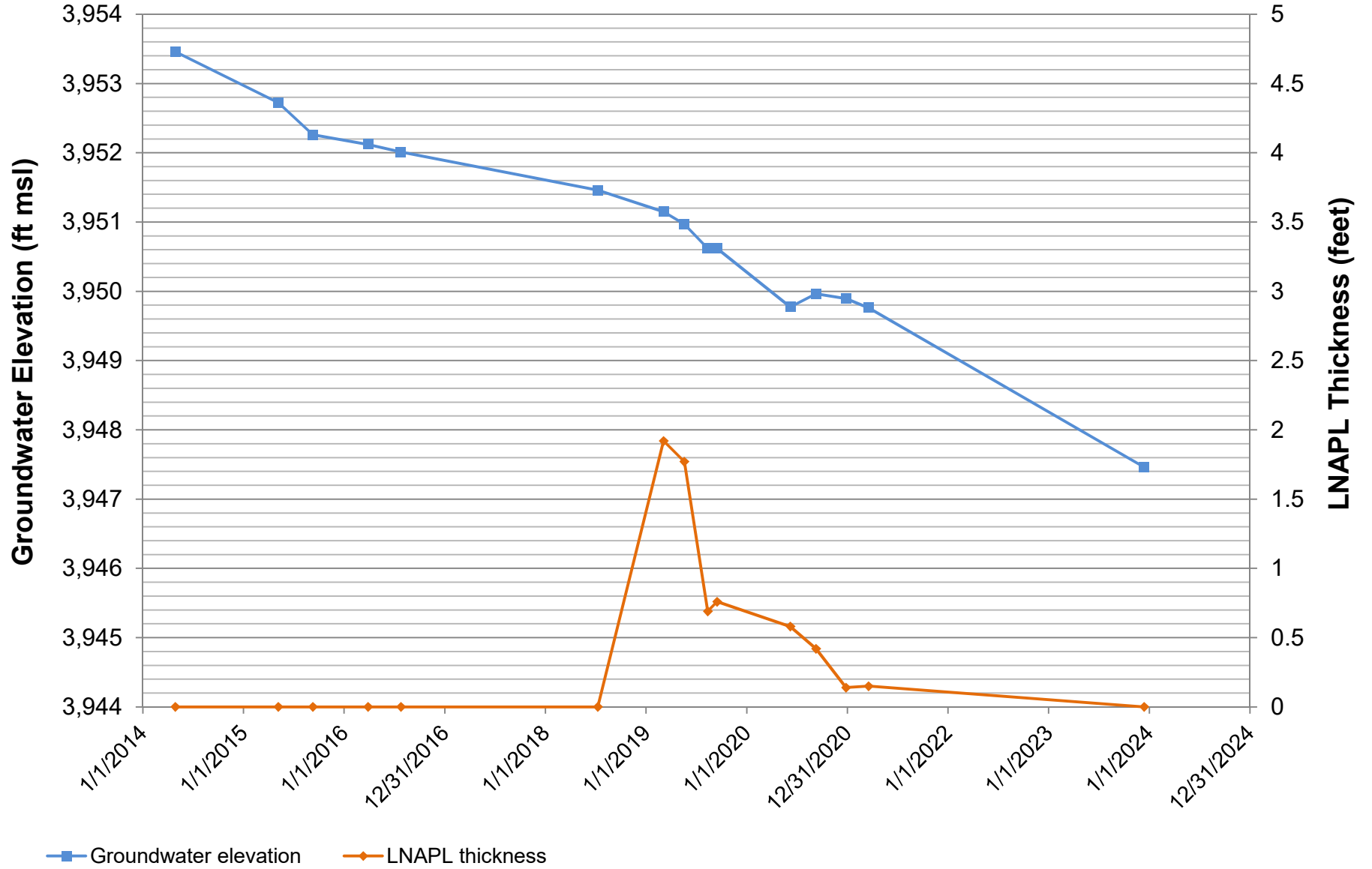
Groundwater Elevations

Former Y Station State Lead Site, Clovis, New Mexico



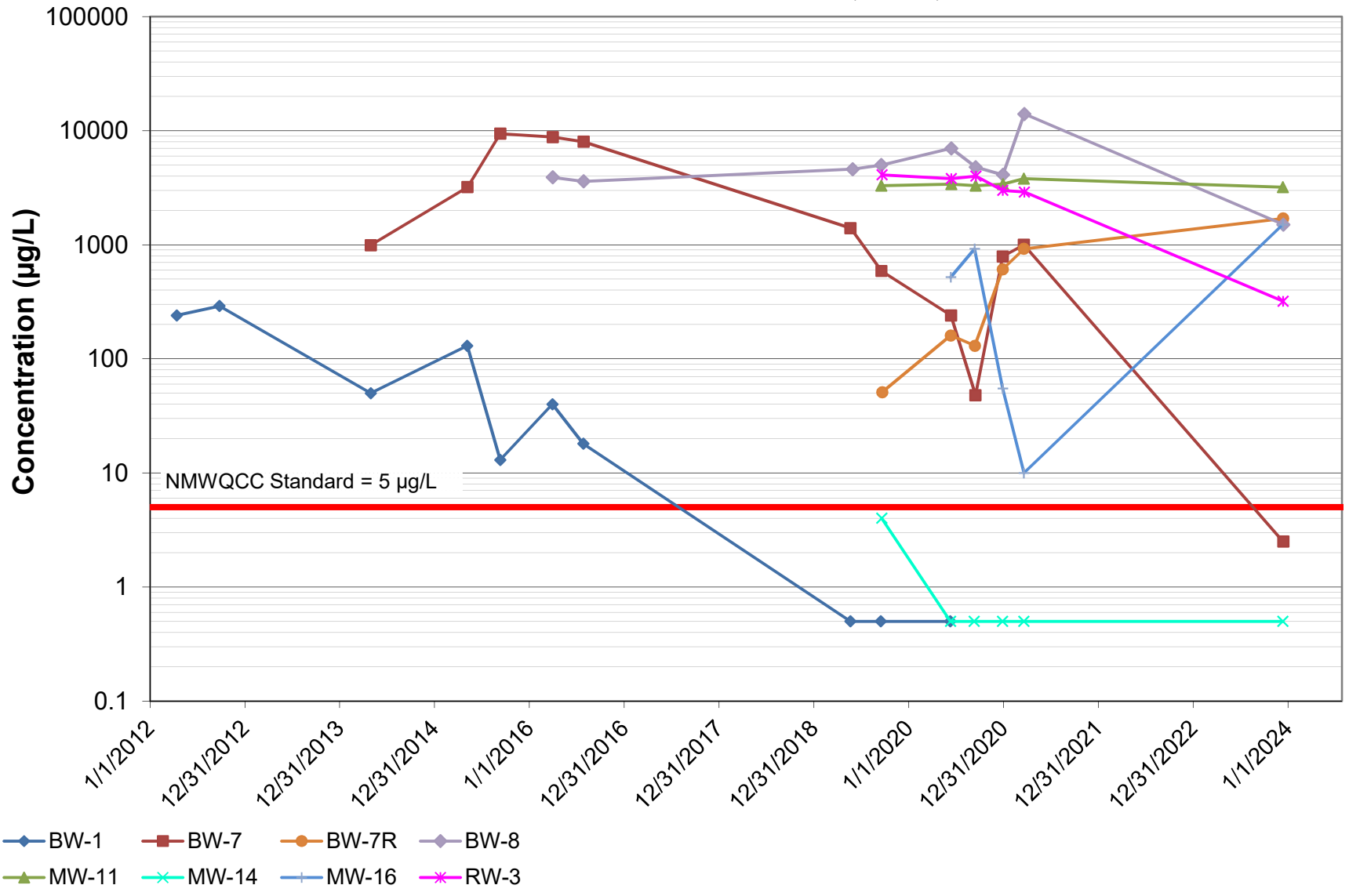
BW-5 Fluid Levels

Former Y Station State Lead Site, Clovis, New Mexico



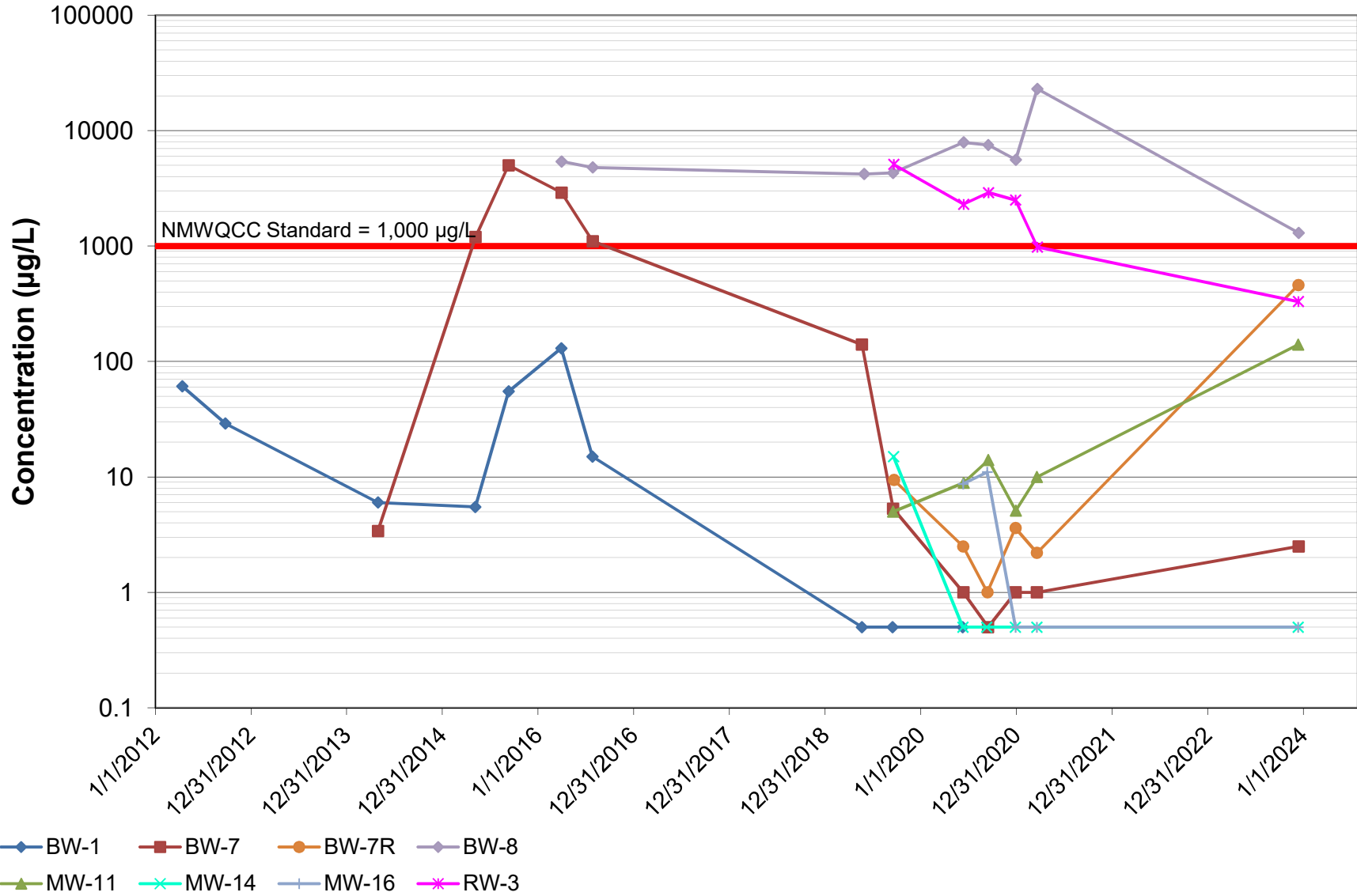
Benzene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



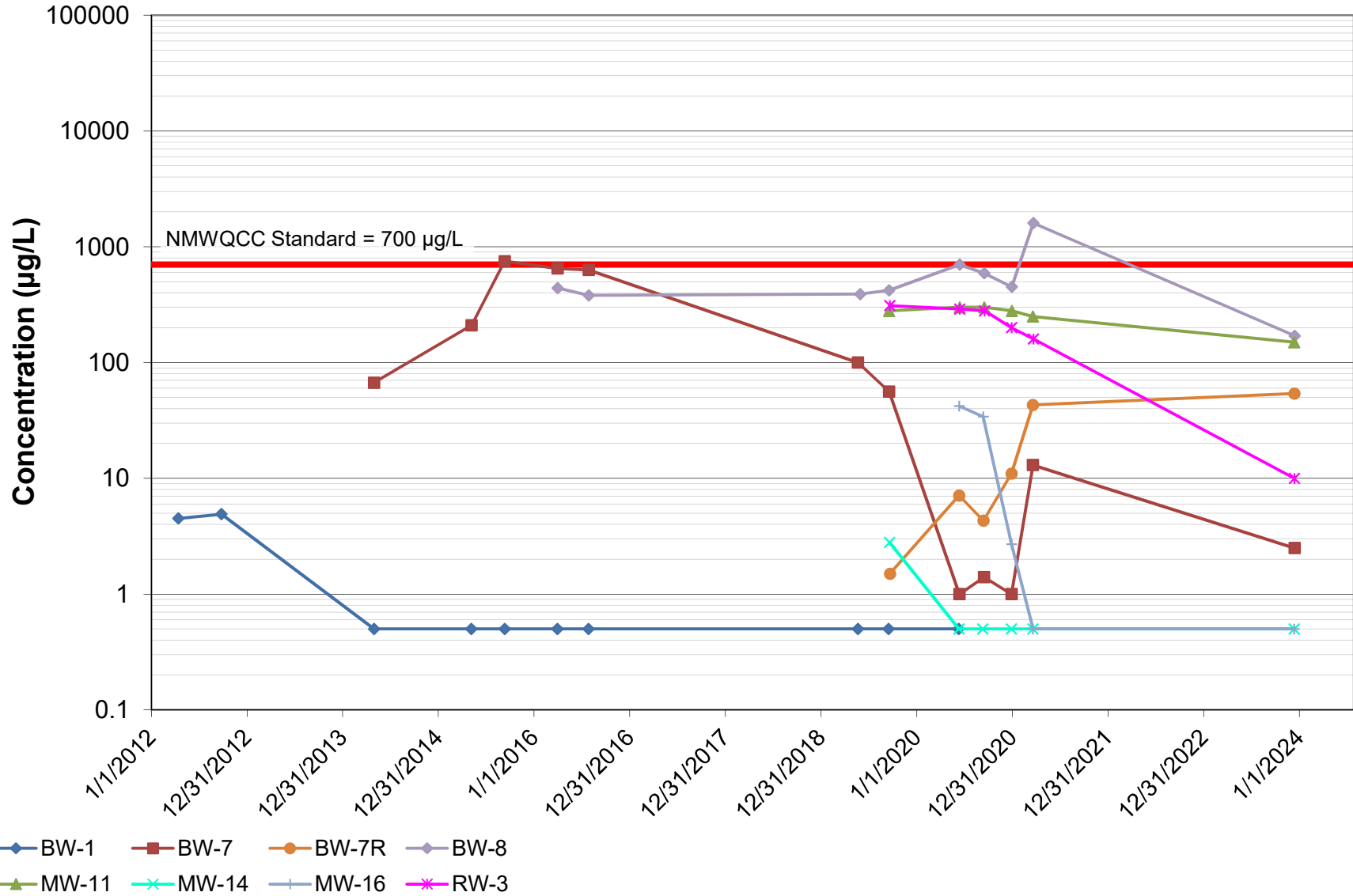
Toluene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



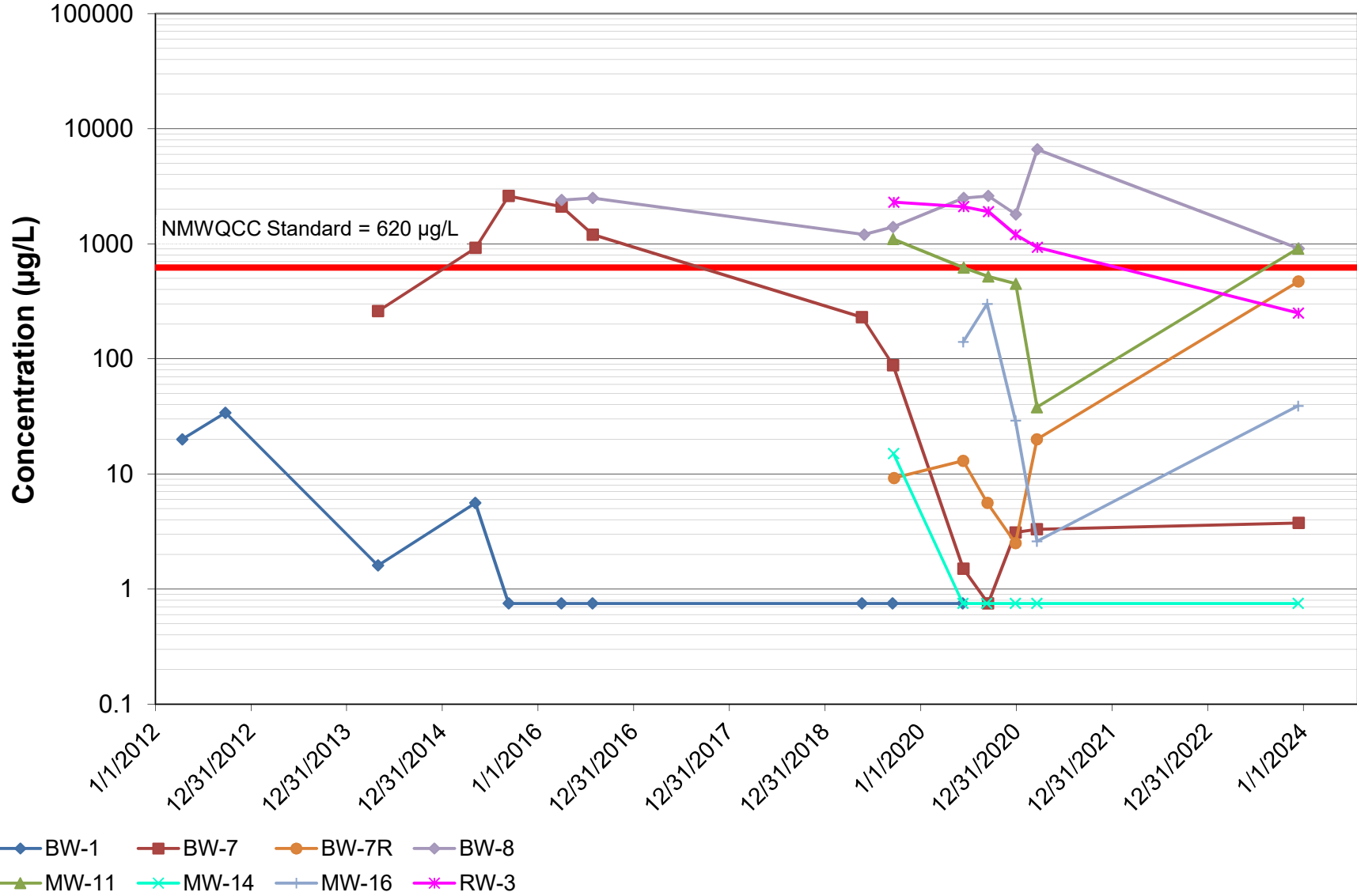
Ethylbenzene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



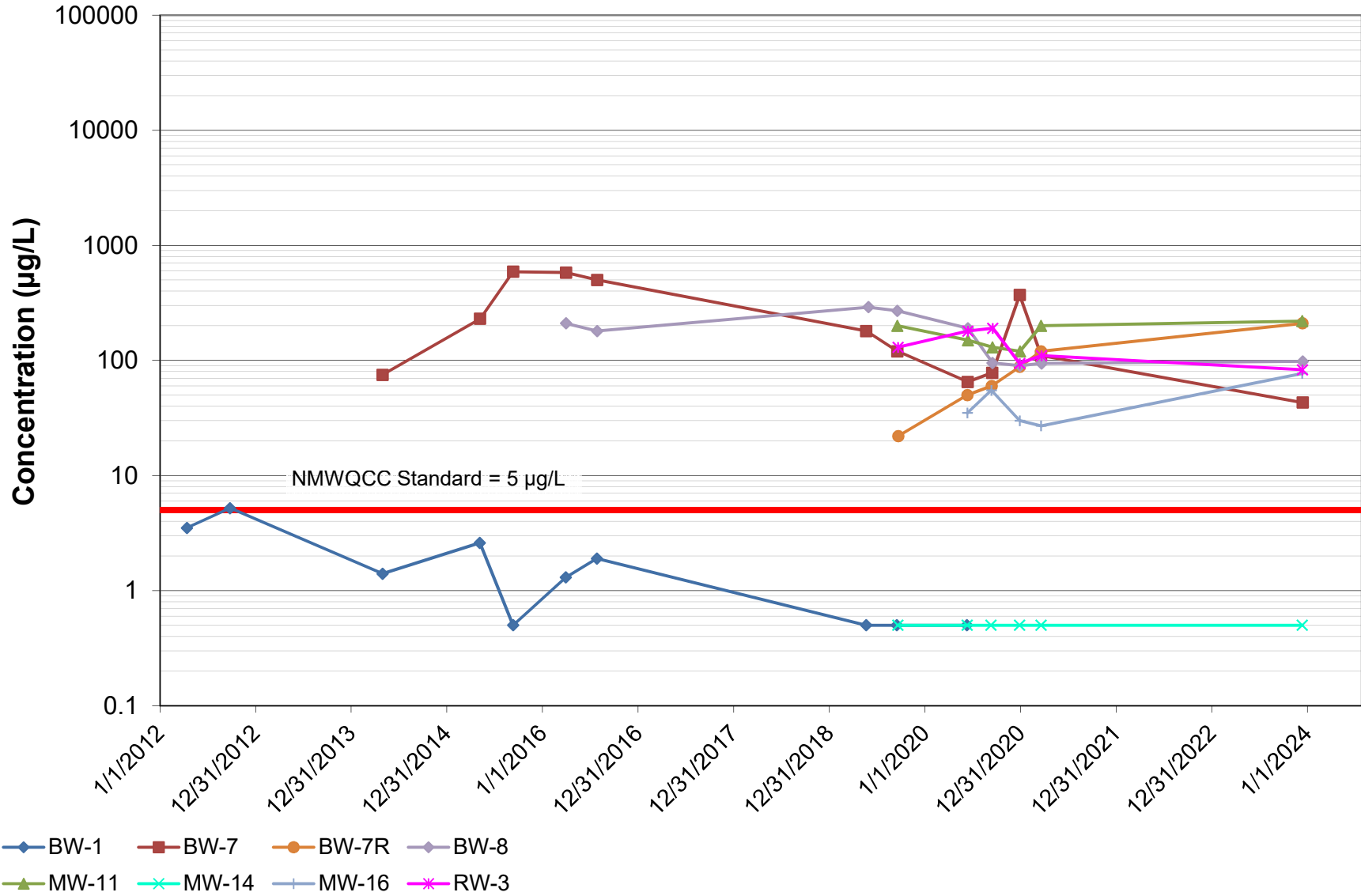
Total Xylene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



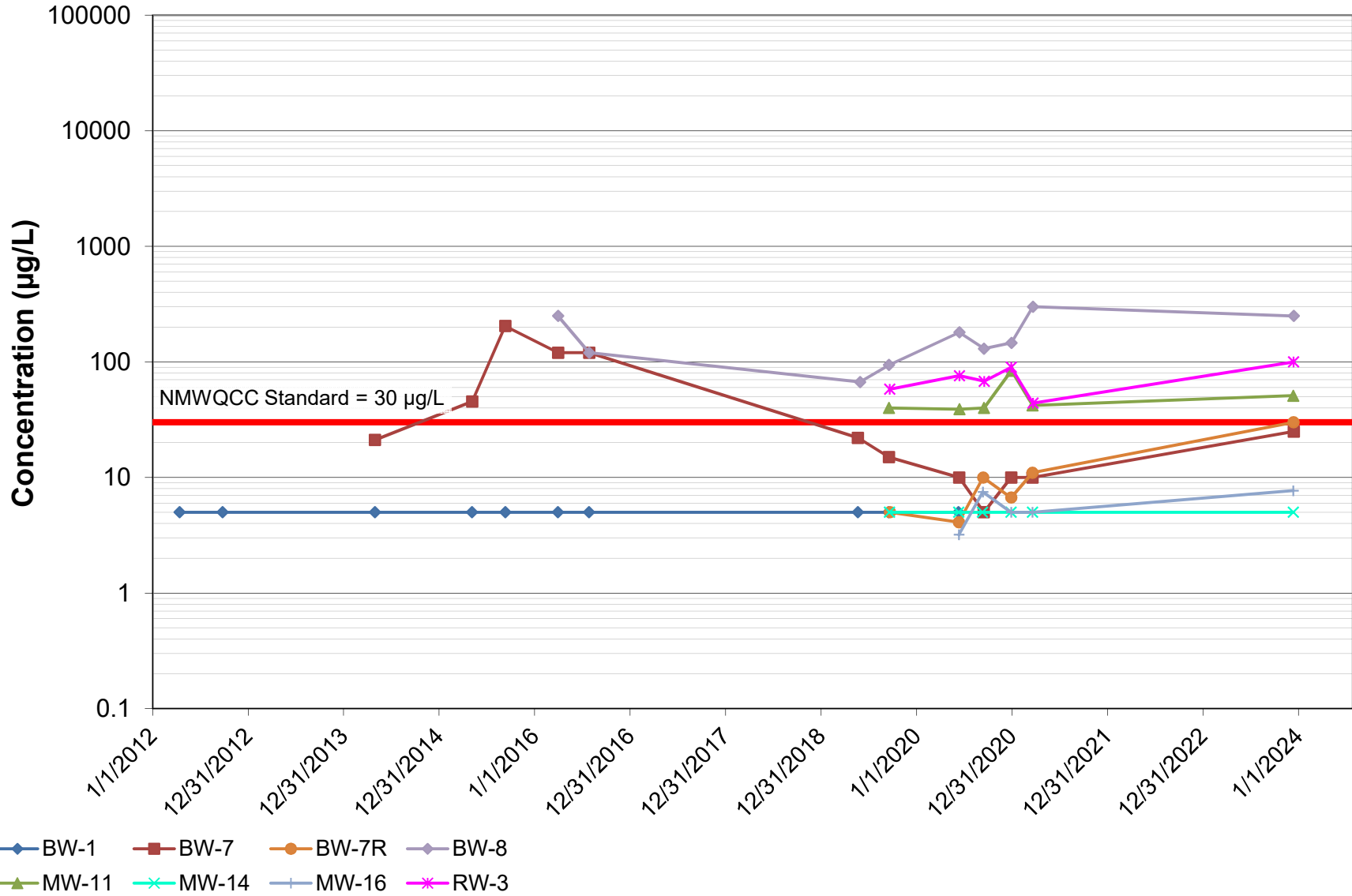
EDC Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



Total Naphthalene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico

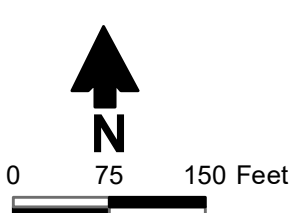


Appendix H

Baseline Plume Maps



FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
**Distribution of Dissolved-Phase
Contaminants - March 2021**

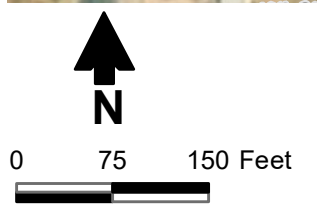
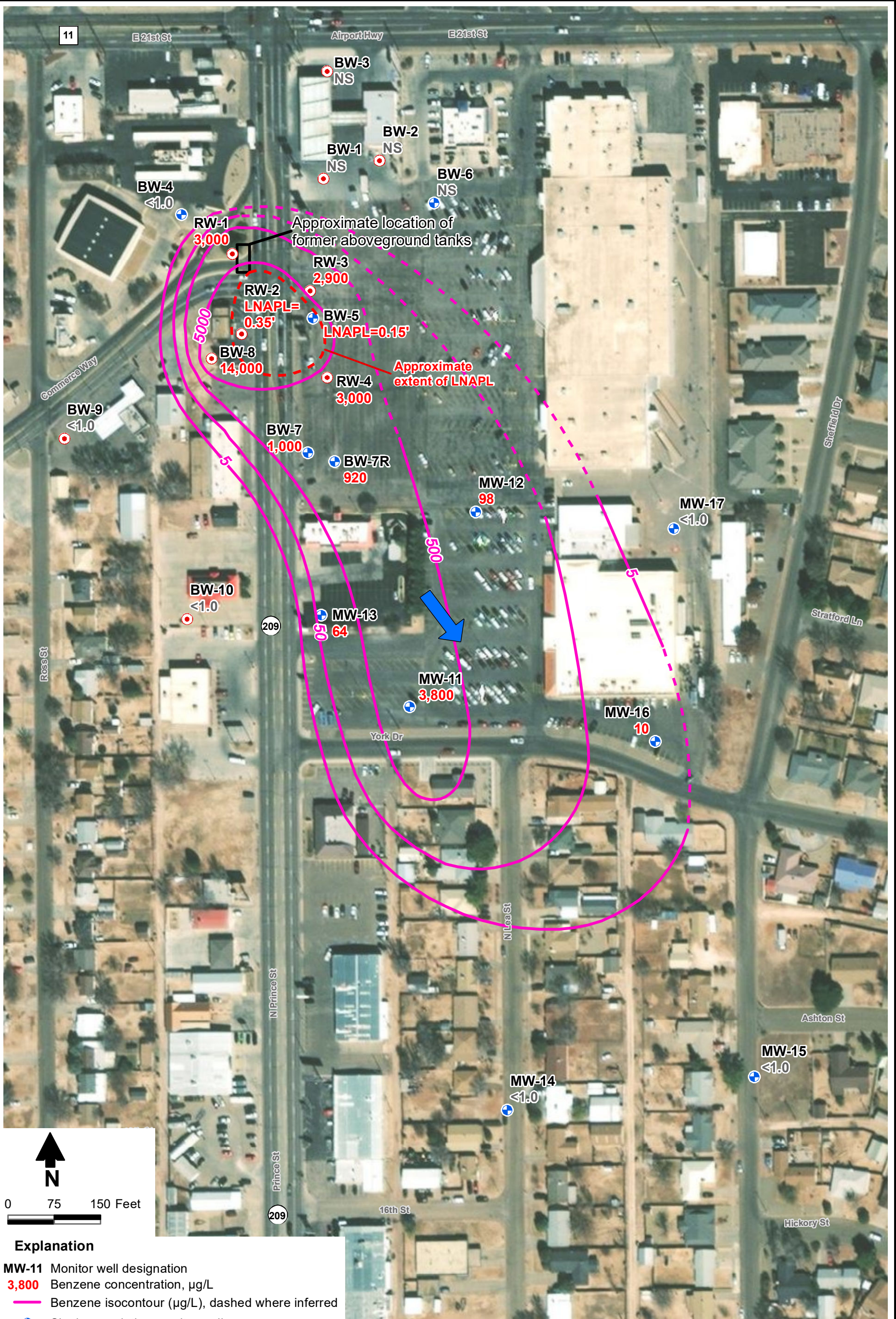


Explanation

- Single completion monitor well
- Nested monitor well

Location designation		Sample Date	
Benzene	Toluene	Ethylbenzene	Total Xylenes
BTEX	EDB	EDC	Total Naphthalenes
MTBE			

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
 2. **RED** indicates concentration that exceeds NMWQCC standard.
 3. ^a Laboratory reporting limit is equal to or greater than the applicable standard.
 4. Samples presented on this figure were collected using HydraSleeve sampling devices.



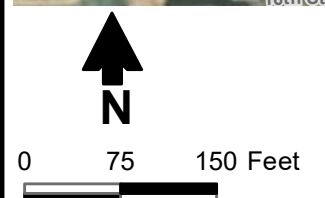
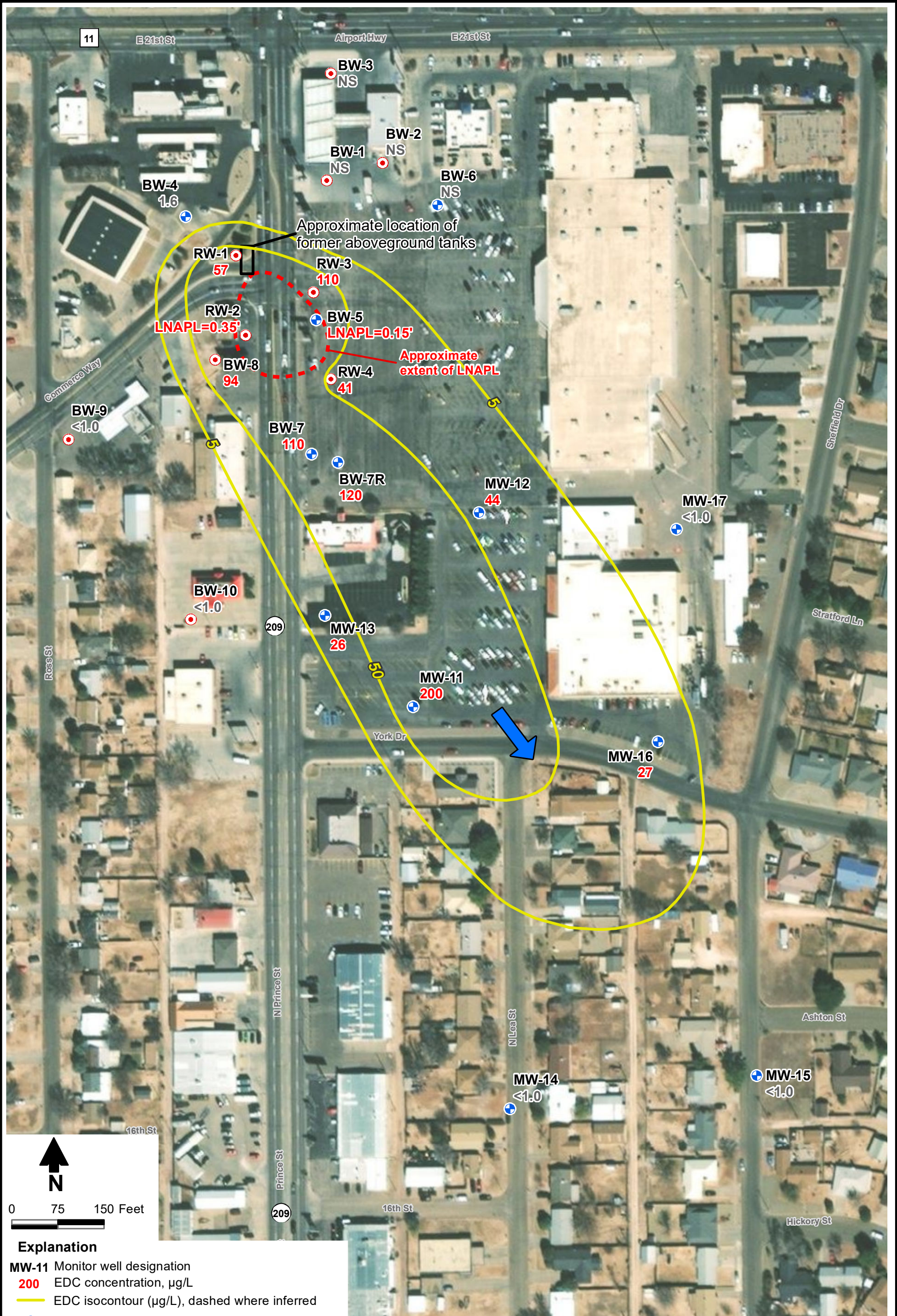
Explanation

- MW-11** Monitor well designation
- 3,800** Benzene concentration, µg/L
- Benzene isocontour (µg/L), dashed where inferred
- +** Single completion monitor well
- Nested monitor well

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
 2. **RED** indicates concentration that exceeds NMWQCC standard.
 3. Samples collected on this figure were collected using HydraSleeve sampling devices.

FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
Benzene Isoconcentration Map
March 2021





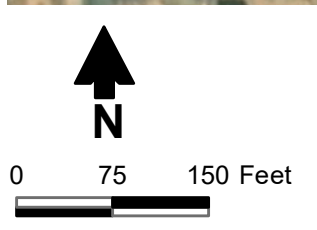
Explanation

- MW-11 Monitor well designation
- 200** EDC concentration, µg/L
- EDC isoconcentration (µg/L), dashed where inferred
- ⊕ Single completion monitor well
- ⊙ Nested monitor well

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
 2. **RED** indicates concentration that exceeds NMWQCC standard.
 3. Samples collected on this figure were collected using HydraSleeve sampling devices.

FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
EDC Isoconcentration Map
 March 2021





Explanation

- MW-11 Monitor well designation
- 0.14 EDB concentration, $\mu\text{g/L}$
- EDB isoconcentration ($\mu\text{g/L}$), dashed where inferred
- ⊕ Single completion monitor well
- ⊙ Nested monitor well

Notes: 1. All concentrations reported in micrograms per liter ($\mu\text{g/L}$).
 2. RED indicates concentration that exceeds NMWQCC standard.
 3. Samples collected on this figure were collected using HydraSleeve sampling devices.

FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
EDB Isoconcentration Map
 March 2021

