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March 28, 2025

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

Re: Fourth 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 October 19, 2024 through January 23, 2025 and groundwater monitoring activities conducted in December 2024. 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 reduced amount of $75,690.24, including New Mexico gross receipts tax (NMGRT), for Deliverable ID #4339-5 to reflect a reduction in the number of samples collected. 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.

Grace Herrmann, P.E.
Project Engineer

GH/tg/rpf
Enclosure
cc: Katherine MacNeil, NMED PSTB

Fourth Quarter 2024 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

DBS&A
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March 28, 2025

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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 fourth quarter of operation and maintenance (O&M) for the dual-phase extraction (DPE) system from October 19, 2024 to January 23, 2025, as well as groundwater monitoring activities conducted at the site December 16 through 18, 2024. An annual site and remediation system evaluation is also provided. 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 New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (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) were 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 ¾-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 bib (for collection of groundwater samples), analog pressure gauge, and air release valve (ARV). Each well also includes a pressure transducer for remote monitoring of fluid levels and control of the pumps.

Utility services 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:

- October 28, November 11, and December 4, 18, and 27, 2024, and January 2 and 23, 2025: Recorded DPE system operations data; sampled process vapor and water for laboratory analysis.
- November 11 through 13, 2024: Repairs were made to the MW-16 piping configuration. Electrical concerns regarding the thermal oxidizer combustion blower motor were investigated and temporarily resolved by replacing a damaged wire.
- December 16, 2024: Additional electrical repairs performed on the thermal oxidizer combustion blower motor wiring.
- December 16 through 18, 2024: Performed quarterly groundwater monitoring. Gauged fluid levels in 9 site monitor wells and collected level data from the transducers of

5 remediation wells (the remaining transducers are inoperable). Groundwater samples were collected from 16 site monitor wells for laboratory analysis.

- January 3, 2025: Collected a groundwater sample from RW-2.

SVE operations experienced several interruptions during the fourth quarter. Most of the interruptions were due to components related to the combustion blower motor on the thermal oxidizer; each was addressed in a timely manner by the project electrician. Several interruptions were due to temporary electrical supply outages in the area. The groundwater extraction and treatment system operated throughout the entire quarterly period, although several wells were out of service. Because pumps were inoperative, quarterly groundwater samples could not be collected from wells RW-1 and RW-3 during the fourth quarter. There was insufficient water in the HydraSleeve to collect a groundwater sample from BW-7.

2. Remediation System Operation and Maintenance

Remediation system O&M included six regular visits for the reporting period, with system operation data and laboratory sample collection performed during each event, as well as four additional visits for system optimization and troubleshooting. Evaluation of the remediation system was performed continuously using daily updates and alarm notifications from the telemetry system. Vapor monitoring, including field screening and sampling for laboratory analysis, was performed during the six regular site visits. Water samples were collected at each regular O&M event. 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 data collected by 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 contaminant concentrations. 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 remediation system control panels.

As recorded from the SVE system control panel, total system air flow ranged from 535 to 603 standard cubic feet per minute (scfm) during the quarterly period (Table 1). Air flow measured using the VelociCalc has been higher throughout the operation of the system, but these measurements may be affected by the piping configuration or 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. Vacuum at the SVE blower ranged from 57 to 72 inches water column (inches H_2O) (Table 1).

The combined influent PID reading during system startup initially exceeded the capacity of the PID (greater than 15,000 parts per million by volume [ppmv]). PID readings during the fourth quarter of operation ranged from 373 to 1,560 ppmv. PID readings do not always correlate to laboratory concentrations. PID readings from the oxidizer discharge have been below 100 ppmv since January 16, 2024 (Table 1).

2.2 Wellhead Operation Data

2.2.1 SVE Operations

Air flow for individual zones of the source area wells (RW-1 through RW-4 and BW-8) ranged from approximately 33 to 75 scfm during the fourth quarter. These flow rates 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 and changes in well operation. Applied vacuum measured at the wellheads ranged from approximately 35 to 50 inches H_2O during the fourth quarter. Downgradient wells MW-7R, MW-11, MW-12, MW-13, and MW-16 were closed to the SVE system during the fourth quarter due to low hydrocarbon concentrations in recovered vapor.

PID results from field screening are presented in Figures 4 through 7 and 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). In the fourth quarter, PID readings from the deep zone of these source area wells ranged from 106 to 2,411 ppmv. Since startup, values have generally been between 1,000 and 3,000 ppmv. PID readings have also remained elevated for the intermediate and shallow zones of RW-2, consistently near or above 1,000 ppmv, while decreasing in these zones for other nested wells. The shallow and intermediate zones of RW-4 and BW-8 are generally trending below 100 ppmv. Based on vapor concentration trends in the next phase of operation, DBS&A may discontinue SVE operation in these zones.

Based on consistently low PID readings, DBS&A discontinued SVE operations at all downgradient wells (BW-7R, MW-11, MW-12, MW-13, and MW-16) during the third quarter. 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-producing wells to maximize removal of contaminants.

2.2.2 Groundwater Extraction

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. Due to pump starter and transducer failures, as well as well maintenance activities, source area wells RW-1, RW-2, and RW-3 were mostly offline during the fourth quarter. RW-4 operated for several weeks during the quarter, but a malfunction occurred with the flow meter transmitter device. A flow rate was calculated using the physical meter and the pump motor hours were used to calculate a total flow for the remainder of the quarter. This calculation was conservatively high in order to avoid under-reporting extracted volume to New Mexico Office of the State Engineer (OSE). Downgradient well MW-16 was operational for over half of the quarter after plumbing repairs were completed.

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. As noted in previous quarterly reports, groundwater extraction is decreasing for many of the site remediation wells due to biofouling of the well screens, conveyance, and flow metering instrumentation. A plan to address this issue is presented in the work plan submitted to PSTB on February 13, 2025 (DBS&A, 2025).

As of January 23, 2025, the remediation system has treated over 2.5 million gallons of petroleum-contaminated water. At the beginning of the quarter, DBS&A discovered that the treated water discharge flow meter was damaged. The total volume of discharged treated water was calculated based on the influent flow from the remediation wells. The total flow calculated is conservatively high in order to avoid the potential for under-reporting treated discharge to the City of Clovis (the City). The flow meter will be replaced and reset during the execution of the next work plan.

In accordance with existing discharge permits/agreements, DBS&A reports water flow meter readings to both the City and the OSE. As described previously, field audits show that when

individual well readings are in error, they are overestimates of actual withdrawals. DBS&A does not suspect that any under-reporting to OSE has occurred.

2.3 Laboratory Sampling

Laboratory samples were submitted to Eurofins Environment Testing (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 of the treatment system 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. Air sample analytical results are summarized in Table 4. Groundwater influent and treated water discharge analytical results are summarized in Table 5.

The analytical results for SVE combined influent air laboratory samples collected during startup showed total petroleum hydrocarbon gasoline-range organics (TPH GRO) concentrations of 36,000 and 34,000 micrograms per liter (µg/L) on November 1 and 3, 2023, respectively. TPH GRO concentrations in influent air samples ranged mostly from 12,600 to 5,300 µg/L in the fourth quarter; since startup, these concentrations have ranged from 36,000 to 1,800 µg/L. Concentrations fluctuated as SVE was turned off at additional wells throughout the quarter. Since December 2023, thermal oxidizer destruction efficiency has averaged nearly 99 percent.

During this period of operation, concentrations of all COCs varied for combined influent (raw) water samples based on which wells were in operation and the extraction flow rates at each well. Concentrations of 1,2-dibromoethane (EDB) in treated water samples exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard. However, treated water is routed to the City wastewater treatment plant for additional treatment. The influent EDB concentration showed a general decreasing trend this quarter which ranged from 1.4 µg/L in October to 0.011 µg/L in December (Table 5). Average benzene, EDB, and 1,2-dichloroethane (EDC) treatment efficiencies have been 98.3, 94.1, and 98.5 percent, respectively, which are typical for the various constituents based on the installed treatment equipment. Treatment efficiencies have been trending higher as operation continues.

Since remediation activities began, combined influent (raw) water concentrations have fluctuated, but are lower than startup concentrations. As more source area wells are brought back into operation, raw water concentrations are expected to increase initially and then decrease with continued operation.

Raw and treated water samples were also analyzed for a limited number of inorganic constituents. Average chloride, nitrate (as nitrogen), and sulfate concentrations for influent (raw) water samples collected this quarter were 70, 1.4, and 40 milligrams per liter (mg/L), respectively, which are below the NMWQCC standards. Average total dissolved solids (TDS) concentration was 427 mg/L (Table 6). The TDS concentration in the treated water sample has generally been similar to that of the influent (raw) water sample. These concentrations have been relatively consistent throughout system operation.

2.4 Contaminant Removal Performance

Calculations based on two methods (laboratory and PID analysis) were performed to estimate hydrocarbon mass removal by the SVE system (Appendix E). The laboratory analysis method indicated that hydrocarbon mass removal rates during the fourth quarter averaged approximately 12.1 pounds per hour (lb/hr). Results obtained from the PID analysis were lower (6.8 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 to mass concentrations measured with laboratory data.

Removal rates have fluctuated with short-term system operational changes but have generally decreased over time due to the decreased total flow rate as adjustments have been made to the SVE network, and generally decreasing hydrocarbon concentrations in recovered vapor. Based on calculations using the laboratory results, and considering removal from both air and water processes, a total mass of over 130,000 pounds of hydrocarbons (21,700 gallons liquid equivalent) 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 0.036 and 0.68 lb/hr, respectively, which are below applicable air permitting standards. Emission rates are generally 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 and lowering influent contaminant concentrations over time.

During this quarter, electricity was consumed at an average rate of 362 kilowatt-hours (kWh) per day, at an average daily cost of $31.81. Natural gas was consumed at an average rate of 240 therms per day, at an average daily cost of $135.26 (Table 7).

2.5 DPE System Maintenance

Bacterial growth has had a significant impact on groundwater extraction pump performance across the site. Pump motor starters and flow meter errors continued to be an issue during this quarter of operation. Further investigation and corrective actions are recommended in the work plan submitted to PSTB on February 13, 2025.

Troubleshooting and maintenance on the thermal oxidizer combustion blower motor occurred intermittently during this quarter. Permanent corrective actions, including balancing the blower wheel and replacing the motor, are recommended in the work plan (DBS&A, 2025).

DPE system and oxidizer maintenance were completed following the manufacturer-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. SVE blower oil was changed approximately monthly. The motor bearings were greased at each O&M event per the manufacturer's instructions.

3. Groundwater Monitoring

The December 2024 groundwater monitoring event included gauging water levels at all accessible site wells and collecting groundwater samples in 16 site monitor and remediation wells for laboratory analysis. Due to extraction pumps being out of service at the time of monitoring, quarterly groundwater samples could not be collected from wells RW-1 or RW-3 during the fourth quarter. Due to insufficient volume, no groundwater sample was collected from well BW-7 during fourth quarter. Wells BW-6, BW-9, and BW-10 were sampled during the current monitoring event in accordance with the approved work plan. Groundwater samples collected from the site monitor wells and remediation wells were analyzed for VOCs, including

benzene, toluene, ethylbenzene, and total xylenes (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 16 and 17, 2025, depth to water was measured with an electronic interface probe in monitor wells that do not contain a submersible pump. Due to the depth to groundwater and downhole plumbing, an electronic interface probe cannot be lowered to the water table in wells with pumps. For the 9 remediation wells with pumps, transducer data are used to estimate the 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 an approximate potentiometric surface map (Figure 9). Pumping water levels and estimated water levels were not used to construct the potentiometric surface. Due to ongoing system maintenance at the time of monitoring, a complete set of separate static and pumping water levels was not obtained during this quarter. The conditions of each water level measurement presented in Figure 9 are indicated in the figure legend.

Remediation wells equipped with operational pumps are sampled using the sample tap at the wellhead while the extraction pump is running. 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. 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 Eurofins. 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. Historical LNAPL recovery data are provided in Table 10.

3.3 Containment of Release

COCs were detected at concentrations above NMWQCC standards in the following monitor wells during the August 2024 sampling event:

- *Benzene:* BW-5, BW-8, MW-11, MW-15, MW-16, RW-2, RW-4
- *Toluene:* RW-4
- *EDB:* BW-5, BW-8, MW-12, MW-15, RW-2
- *EDC:* BW-5, BW-8, MW-11, MW-12, MW-13, MW-16, RW-2, RW-4
- *Total xylenes:* RW-2, RW-4
- Total naphthalenes: MW-11, RW-2

Benzene, EDB, and EDC are the COCs detected at the site 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. The plume is generally well defined near the source area, but is undefined southeast of MW-16 and south of MW-15.

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 322 to 333 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 6.54 feet, resulting in an average annual decline of approximately 0.62 foot per year. As operation of the remediation system continues, DBS&A will evaluate the impacts of regionally declining water levels and 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 has been present in this well for 9 of the 20 measurements recorded since 2014, at thicknesses up to 1.92 feet. LNAPL was absent during this monitoring event, and has generally been thin or absent in this well since the start of remediation activities. LNAPL has been absent in this well during the last two quarters. Concentrations of all detected COCs decreased significantly since last quarter, and represent the lowest concentrations recorded since the start of remediation activities. Benzene, EDB, and EDC concentrations remain above the NMWQCC standards.
- *BW-7:* A sample was not collected due to insufficient volume in the HydraSleeve. DBS&A will attempt to collect a groundwater sample during the next phase of operation.
- *BW-7R:* Concentrations of BTEX constituents continue to be below reporting limits for this well. For the first time since the beginning of remediation activities, EDB concentration was below the NMWQCC standard during this quarter. This is a positive indicator of ongoing remediation system effectiveness. During the current monitoring event, EDC (37 µg/L) was detected at the lowest concentration since remediation activities began, though the concentration is still above the NMWQCC standard. With ongoing extraction operations, it is likely that cleaner water from outside the plume area will continue moving toward this well.
- *BW-8:* The concentrations of BTEX constituents decreased by an order of magnitude since remediation activities began. COC concentrations in this well are currently at or near historical lows. Concentrations of EDB (0.29 µg/L) and EDC (14 µg/L) decreased since the last quarter. Benzene, EDB, and EDC concentrations remain above the NMWQCC standards. Toluene, ethylbenzene, total xylenes, MTBE, and total naphthalenes concentrations are now below the NMWQCC standards. These changes in COC concentrations are a positive indicator that consistent SVE operation will remediate the source area.
- *MW-11:* COC concentrations in this well have fluctuated markedly over time. This marks the first sampling of this well since December 2023 due to a faulty pump and inability to sample using a HydraSleeve. Benzene concentration has changed little overall since remediation started. Benzene, EDC, and total naphthalenes concentrations remain above the NMWQCC standards. Continuous operation of this well at an increased flow rate, once implemented, is expected to cause these COC concentrations to decrease.
- *MW-12:* Benzene concentration in this well is now below the NMWQCC standard for the first time since well installation. EDB and EDC concentrations continue to exceed the NMWQCC standards. Although the concentration of EDB has fluctuated overall, there has been a

general decreasing trend since this well was installed in 2019 (0.78 to 0.49 µg/L). Overall, most of the COC concentrations are currently at or near historical lows.

- *MW-13:* The benzene and EDB concentrations have dropped below laboratory reporting limits for the first time since remediation began, which is a positive indicator of ongoing remediation system effectiveness. The EDC concentration changed little since last quarter, and continues to exceed the NMWQCC standard.
- *MW-15:* The benzene concentration in this well decreased from 28 to 15 µg/L, but remained above the NMWQCC standard. The EDB concentration in this well is 0.18 µg/L (above the NMWQCC standard), a slight increase from last quarter's value of 0.13 µg/L. Benzene and EDB concentrations in this well were below laboratory reporting limits during the year following well installation in 2020, but have been consistently above the standards during recent sampling events. DBS&A will continue to monitor concentration trends in this downgradient well.
- *MW-16:* COC concentrations at the start of remediation were initially high, suggesting that contaminated water was pulled toward the well from the area to the west. A general decreasing trend is observed for concentrations of all COCs since system operation began, although concentrations of benzene (440 µg/L) and EDC (97 µg/L) continue to exceed the NMWQCC standards. The EDB concentration is below the laboratory reporting limit for the first time since the well was installed. Continuous operation of this remediation well is expected to contain the downgradient portion of the plume. DBS&A will continue to monitor the concentration trends in this remediation well.
- *RW-1:* A sample was not collected this quarter due to an inoperable pump.
- *RW-2:* This well is susceptible to contaminant fluctuations when the remediation system components are out of service. Concentrations of total xylenes (5,500 µg/L), EDB (19 µg/L), EDC (150 µg/L), and total naphthalenes (250 µg/L) are all at historical highs, likely due to rebound while the well pump was out of service. Concentrations of all other COCs are significantly lower than pre-remediation concentrations.
- *RW-3:* A sample was not collected this quarter due to an inoperable pump.
- *RW-4:* Benzene, toluene, total xylenes, and EDC concentrations continue to exceed the NMWQCC standards, but concentrations of benzene and EDB have decreased to historical lows since remediation began. Consistent operation of this source area remediation well is expected to pull contaminated groundwater from under the roadway and may be combining

with cleaner water migrating from the north and east. DBS&A will continue to monitor concentration trends in this well when the extraction pump returns to full-scale operation.

COC concentrations in wells BW-4, BW-6, BW-9, BW-10, MW-14, and MW-17 continue to be below laboratory reporting limits or the NMWQCC standards.

4. Annual Evaluation of Remediation System Performance

The DPE remediation system is showing a positive impact in the source area despite the equipment issues that have impacted the consistent operation of the groundwater extraction network and the SVE system. LNAPL has historically been present in well BW-5 at thicknesses up to 1.92 feet. Measurable LNAPL was only present in BW-5 during the second quarter monitoring event, but has otherwise been absent since remediation began. The extent and magnitude of the dissolved-phase concentration plumes have also generally decreased since the start of active remediation. Figures 14 through 16 provide time-series illustrations of the distribution of dissolved-phase benzene, EDB, and EDC, respectively, in groundwater beneath the site between March 2021 (prior to the start of remediation) and the fourth quarter monitoring event. The extension of the plume to MW-15 is suspected to have occurred following the groundwater monitoring event in 2021 and prior to the first quarter groundwater monitoring event in late 2023 following remediation system startup. Plume areas for benzene have changed to primarily surround the source area and downgradient extraction wells MW-11 and MW-16. Continued operation is expected to contain the plume from further migration and pull contaminated groundwater to extraction wells. Over time, cleaner water from outside the downgradient plume will move toward these wells.

A total mass of over 130,000 pounds (21,700 gallons) of hydrocarbons has been removed from the site using the installed remediation equipment. The SVE component of the remediation system has produced the vast majority of the overall recovered hydrocarbon mass compared to the groundwater treatment system, as anticipated. Optimization of the SVE system has included pulsing of wells with lower concentrations and increasing wellhead vacuum at source area wells. Oxygen is introduced to the subsurface when the SVE system is operating, which encourages aerobic biodegradation of the hydrocarbon mass. The removal of the residual hydrocarbon source mass through SVE operations will support continued mitigation of the dissolved-phase

contaminant plume in groundwater. DBS&A will continue to monitor system operations to maximize mass removal.

Combined influent vapor concentrations have generally declined, but as groundwater extraction wells in the source area are brought back into service, vapor concentrations from the deep zone wells are expected to temporarily increase due to exposure of the smear zone as the water table is drawn down. DBS&A anticipates that influent vapor concentrations could be low enough to warrant installation of the catalyst by the end of the first quarter under the new work plan.

5. Conclusions and Recommendations

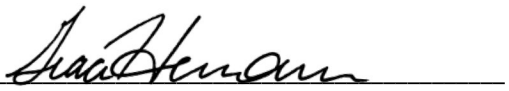
DBS&A recommends that the installed remediation system continue to operate in accordance with the work plan submitted to PSTB on February 13, 2025 (DBS&A, 2025). The scope of work consists of system maintenance and inspection tasks and four quarters of remediation system O&M and quarterly groundwater monitoring. O&M and evaluation of the remediation system will be performed on a biweekly, quarterly, and annual basis. This evaluation 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. Several significant maintenance tasks are outlined in the work plan, including system-wide annual maintenance. DBS&A recommended a groundwater extraction network restoration, including equipment and instrumentation replacement, and a well rehabilitation pilot test. The test includes well scrubbing, chemical treatment, and a limited pump test at RW-4 to address the bacteria bloom within the groundwater extraction wells. Based on the pilot test results, the rehabilitation strategy will be applied sitewide.

The downgradient area of the plume is relatively undefined east of MW-16 and south of MMW-15. PSTB may consider installing additional monitor wells to the east and south of the plume to further delineate the extent of the plume migration and plume capture.

DBS&A recommends performing quarterly groundwater monitoring events with collection of two sets of water level data (during pumping and static conditions) and collection of remediation well groundwater samples with the system operating. This procedure provides the clearest way to evaluate individual well concentrations and plume capture during ongoing system operation.

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: Grace Herrmann, P.E.

Affiliation: Daniel B. Stephens & Associates, Inc.

Title: Project Engineer

Date: March 28 , 2025

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.

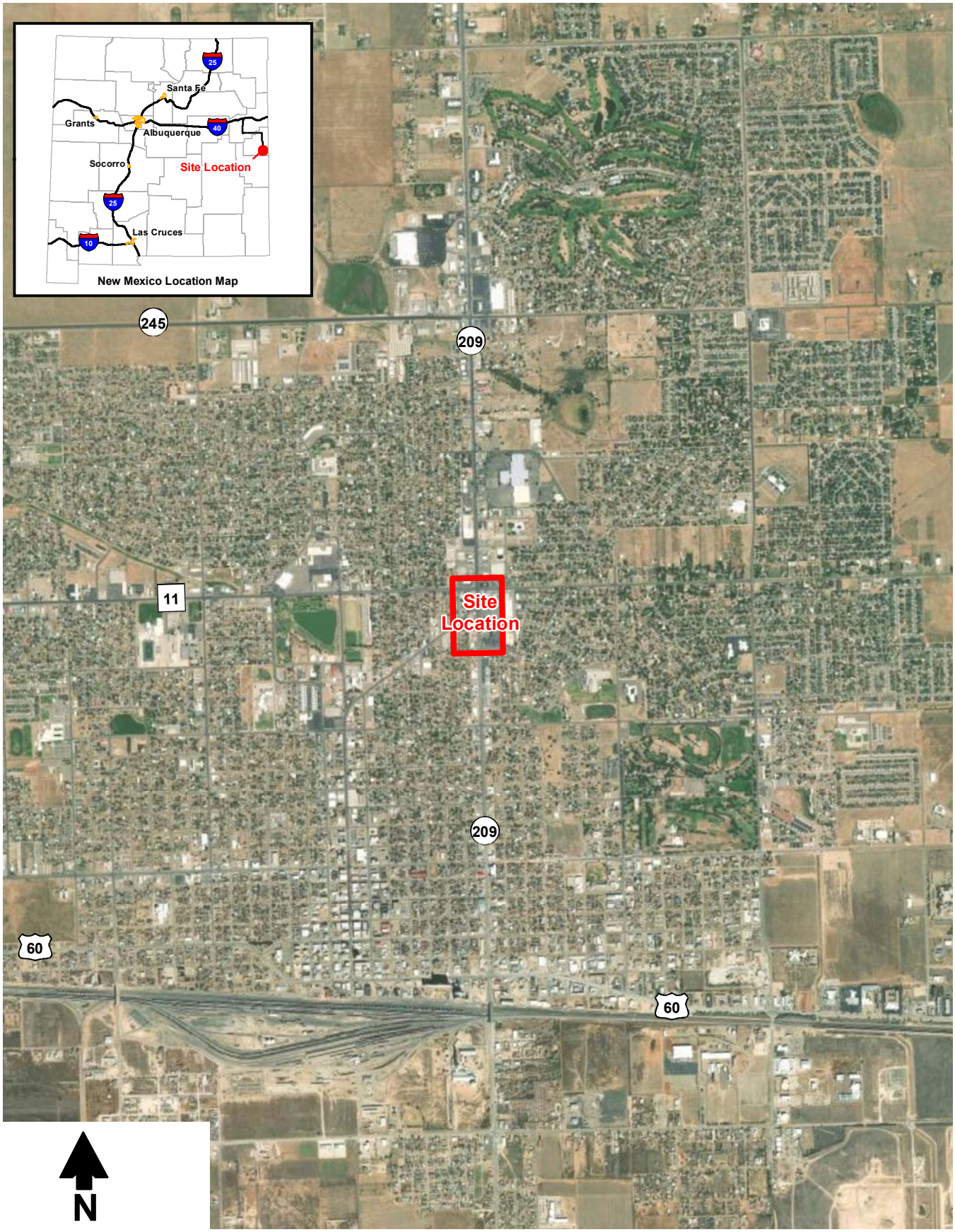
DBS&A. 2023. *Work plan for quarterly remediation system shakedown and startup, operation and maintenance, and groundwater monitoring, State Lead Remediation Services Contract (24-667-3200-27686), Former Y Station State Lead Site, Clovis, New Mexico, Facility #53742, Release ID #4746.* Transmitted by 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.

DBS&A. 2025. *Work Plan for remediation system 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 Grace Herrmann and James A. Kelsey to Renee Romero, New Mexico Environment Department Petroleum Storage Tank Bureau, regarding Revised work plan for quarterly remediation system operation and maintenance and groundwater monitoring, Former Y Station State Lead Site, 721 Commerce Way, Clovis, New Mexico, Facility #53742, Release ID #4746. February 13, 2025.

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



\\SS6ABQ\DATAS\PROJECTS\DB18.1157_FORMER_Y_STATION\GIS\MXDS\UPDATED_TEMPLATE\F01_AREA_MAP.MXD

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FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Area Map

Figure 1

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Aerial image: Google Earth Pro, 3/2022

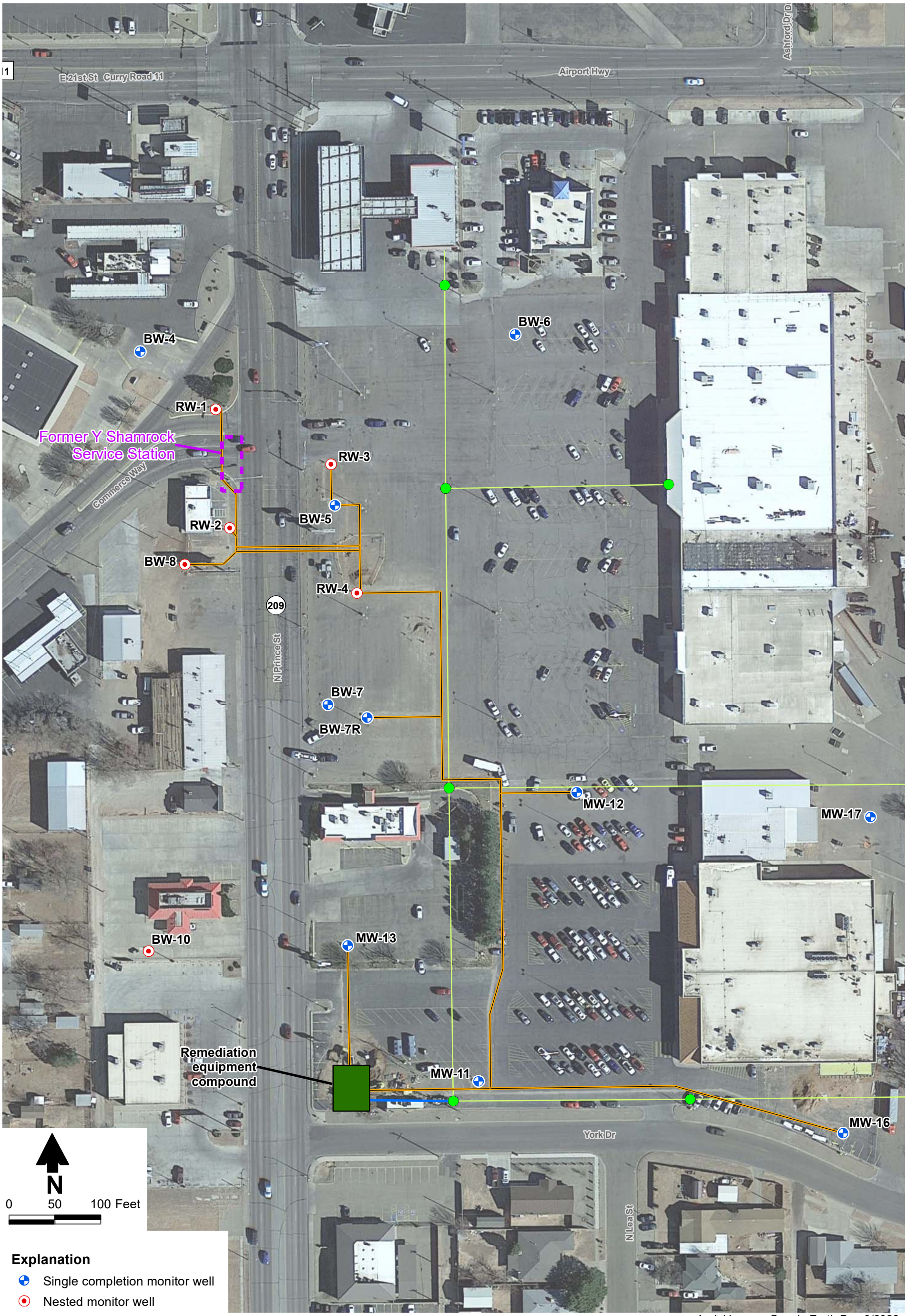
Figure 2

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

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\\SS6ABQ\DATAS\PROJECTS\DB18.1157_FORMER_Y_STATION\GIS\MXDS\ENGINEERING\F03 SYSTEM_LAYOUT.MXD



Aerial image: Google Earth Pro, 3/2022

Figure 3

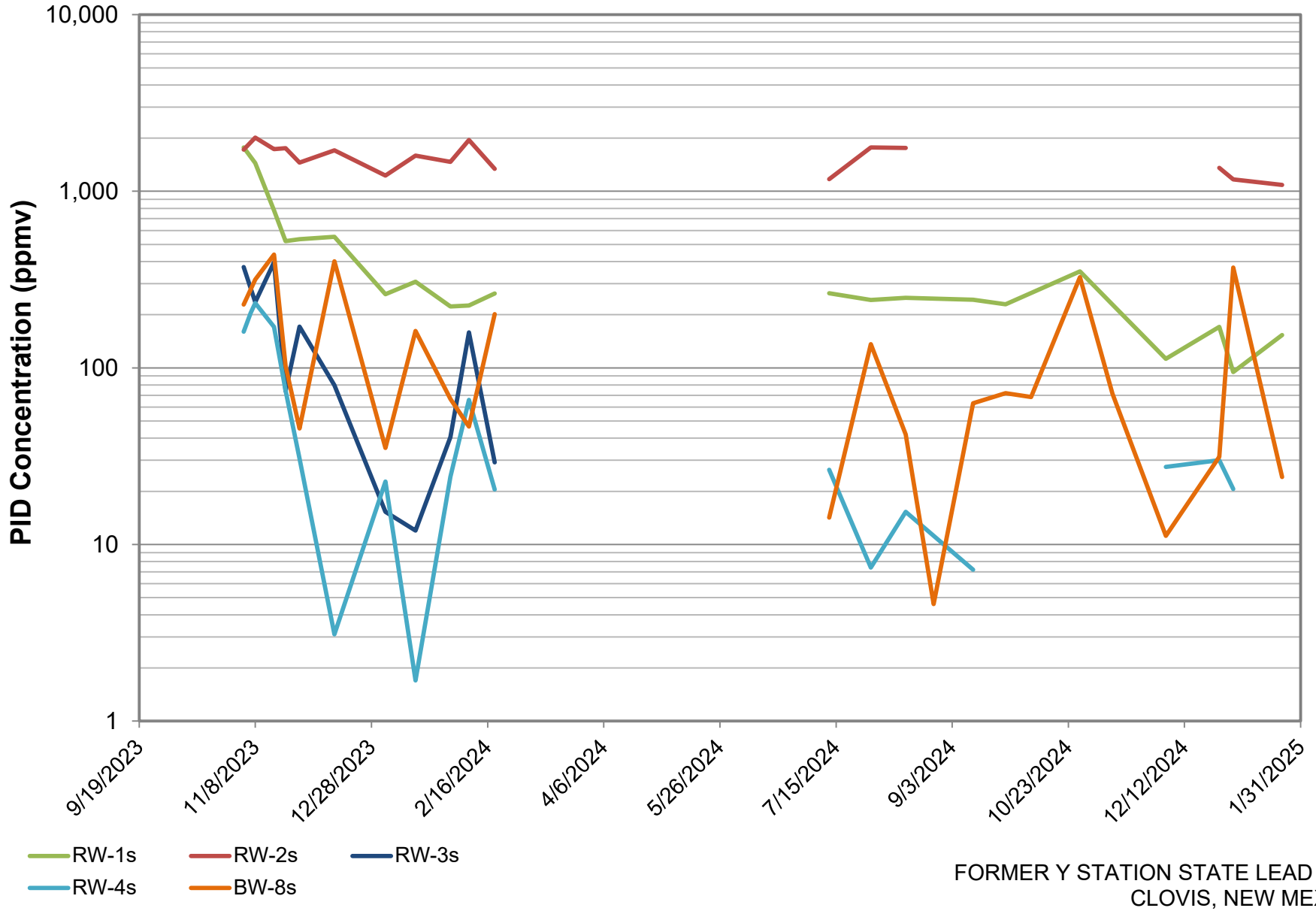
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1/5/2024 JN DB18.1157

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Remediation System Layout

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FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

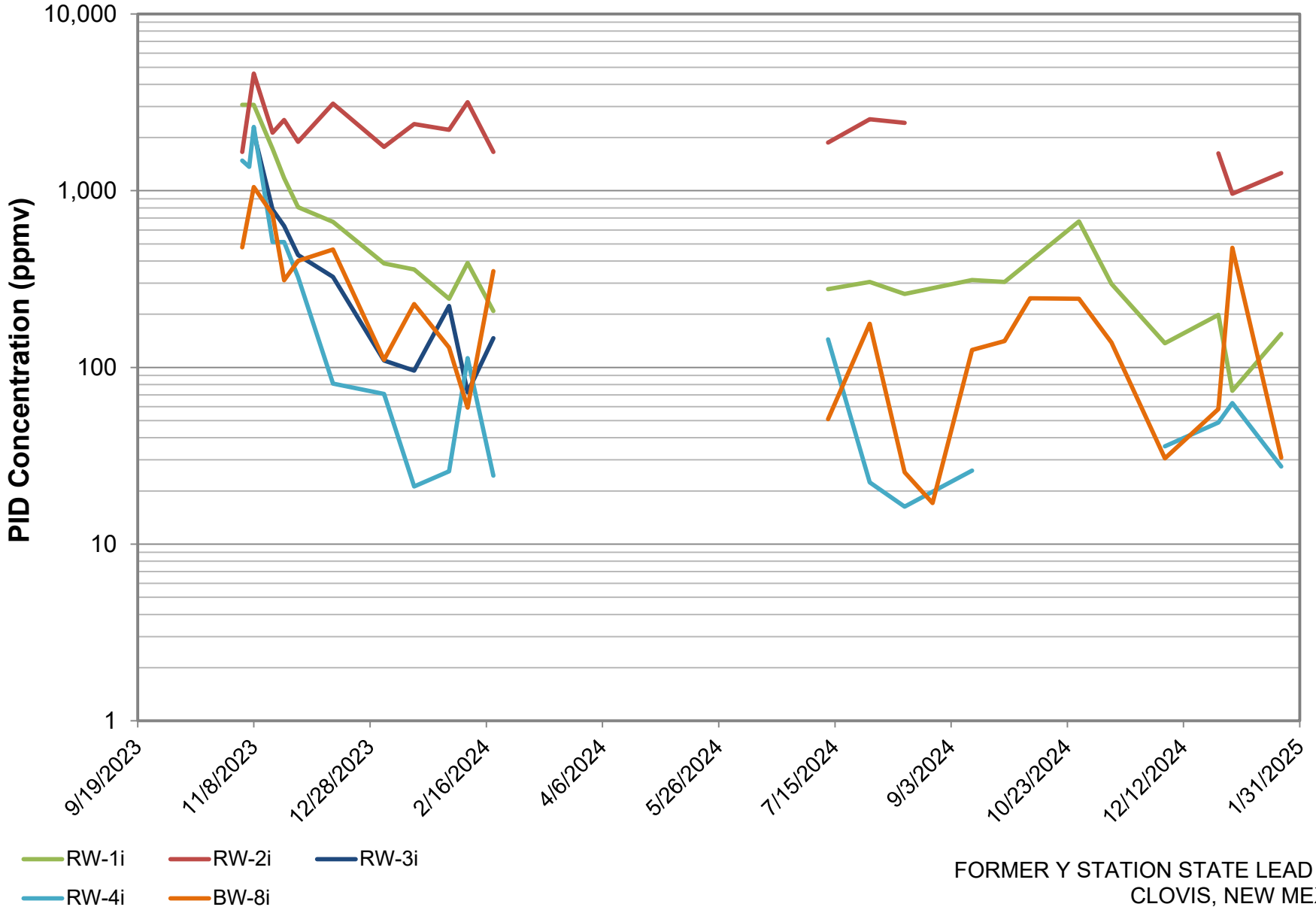
Field Screening PID Readings
Source Area Wells, Shallow Zone

Figure 4

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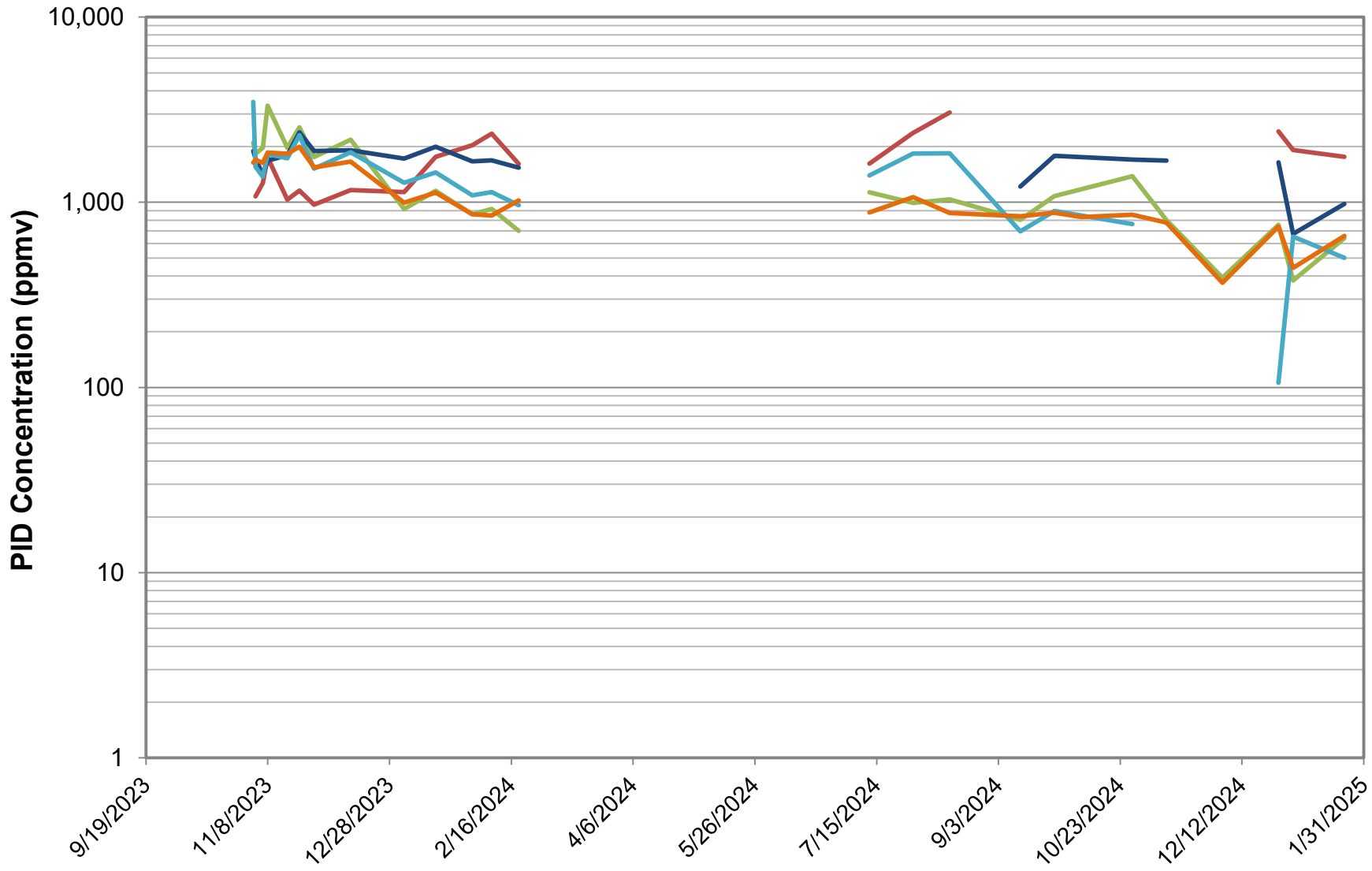
Field Screening PID Readings
Source Area Wells, Intermediate Zone

Figure 5

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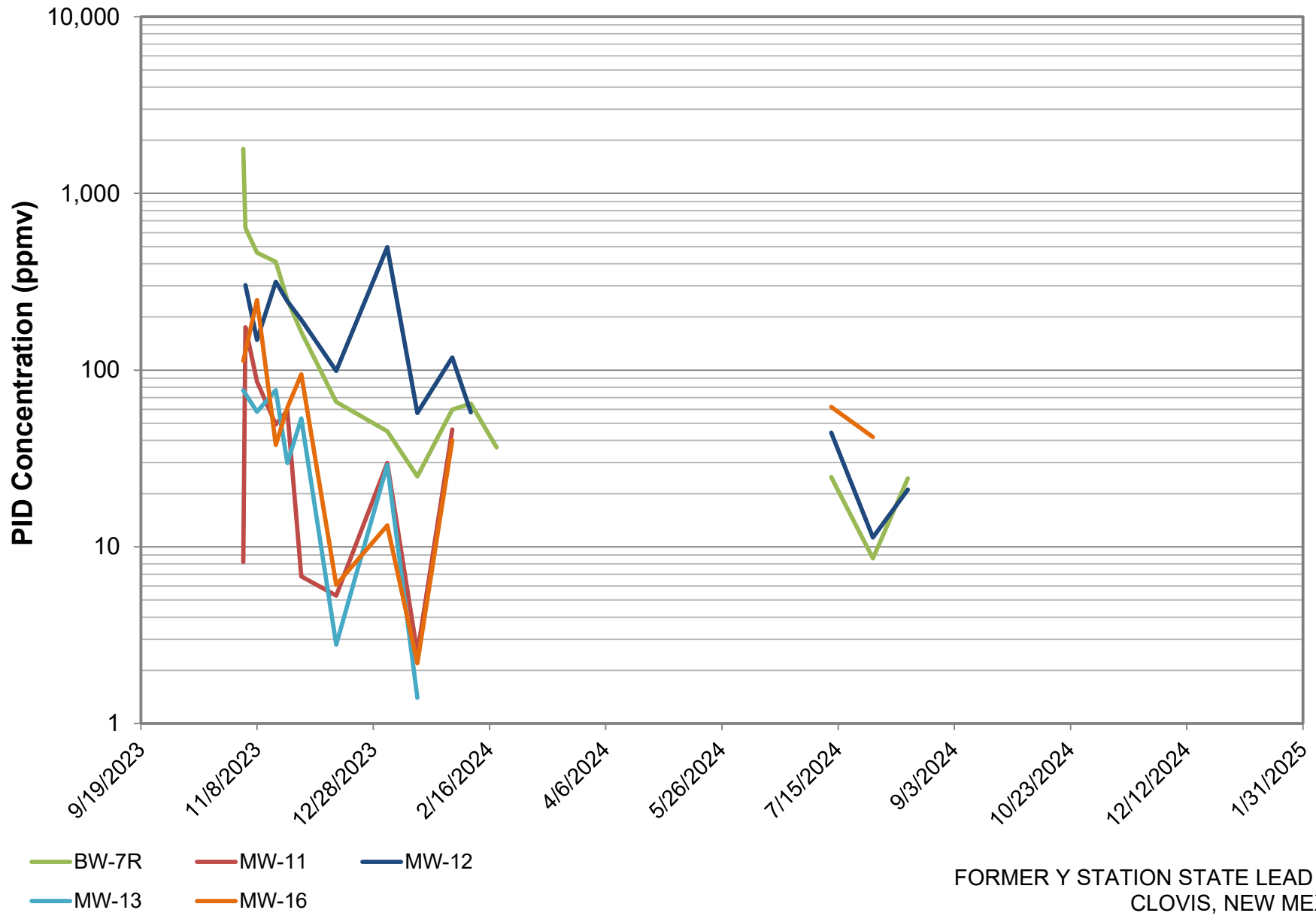
Field Screening PID Readings
Source Area Wells, Deep Zone

Figure 6

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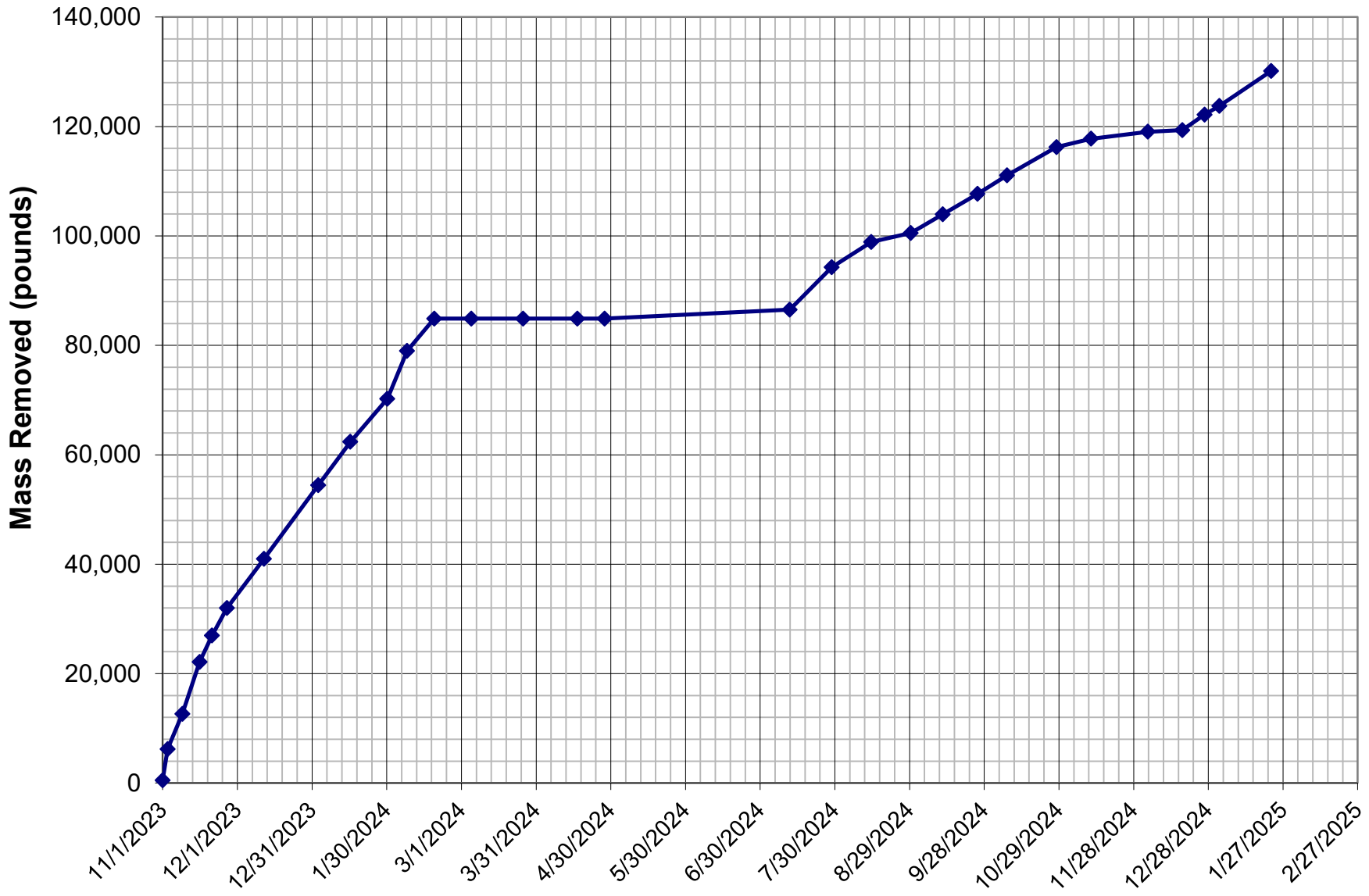
Field Screening PID Readings
Off-Site Wells

Figure 7

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Note: Laboratory results from the influent raw water and vapor phases are used to calculate cumulative mass removal.

Figure 8

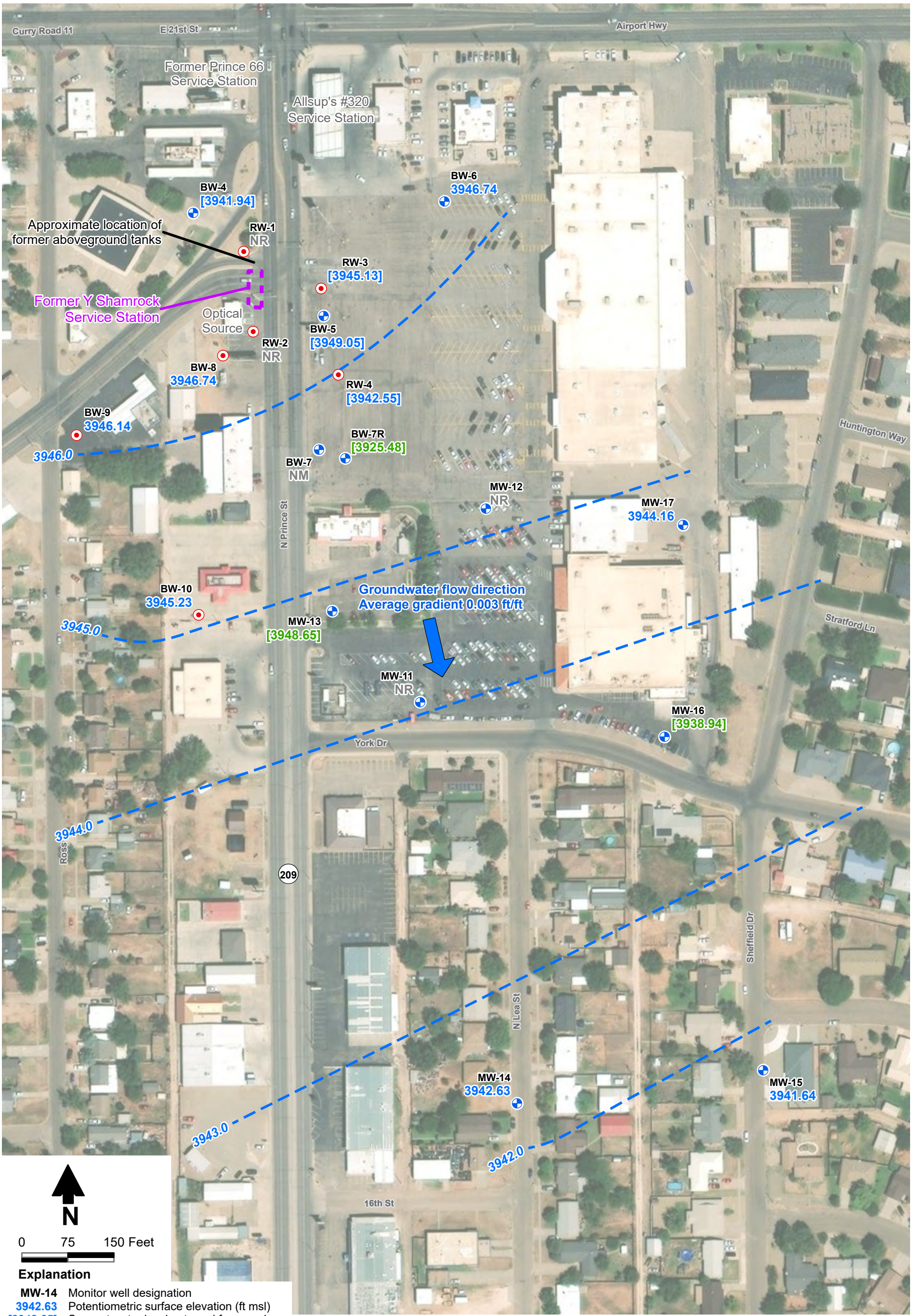
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3/27/2025 DB18.1157

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Cumulative Mass Removal

S:\PROJECTS\DB18.1157_FORMER_Y_STATION\GIS\ARCGIS_PRO\REPORTS\FOMER_Y_DECEMBER_2024\FORMER_Y_DECEMBER_2024.APRX ● FIG 09 POTIENTIOMETRIC SURFACE ELEVATION 16-17 DEC2024



Explanation

MW-14	Monitor well designation
3942.63	Potentiometric surface elevation (ft msl)
[3948.65]	Suspect water level not used for pumping
[3938.94]	Pumping well level
	Single completion monitor well
	Nested monitor well
	Approximate static potentiometric surface

Notes: 1. NR = No reading
2. NM = Not measured

Aerial image: Maxar, Vivid 9/3/2023

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Potentiometric Surface Elevations December 16-17, 2024

Figure 9

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3/19/2025 JN DB18.1157

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Aerial image: Maxar, Vivid 8/20/2023

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 on this figure were collected using HydraSleeve sampling devices.

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

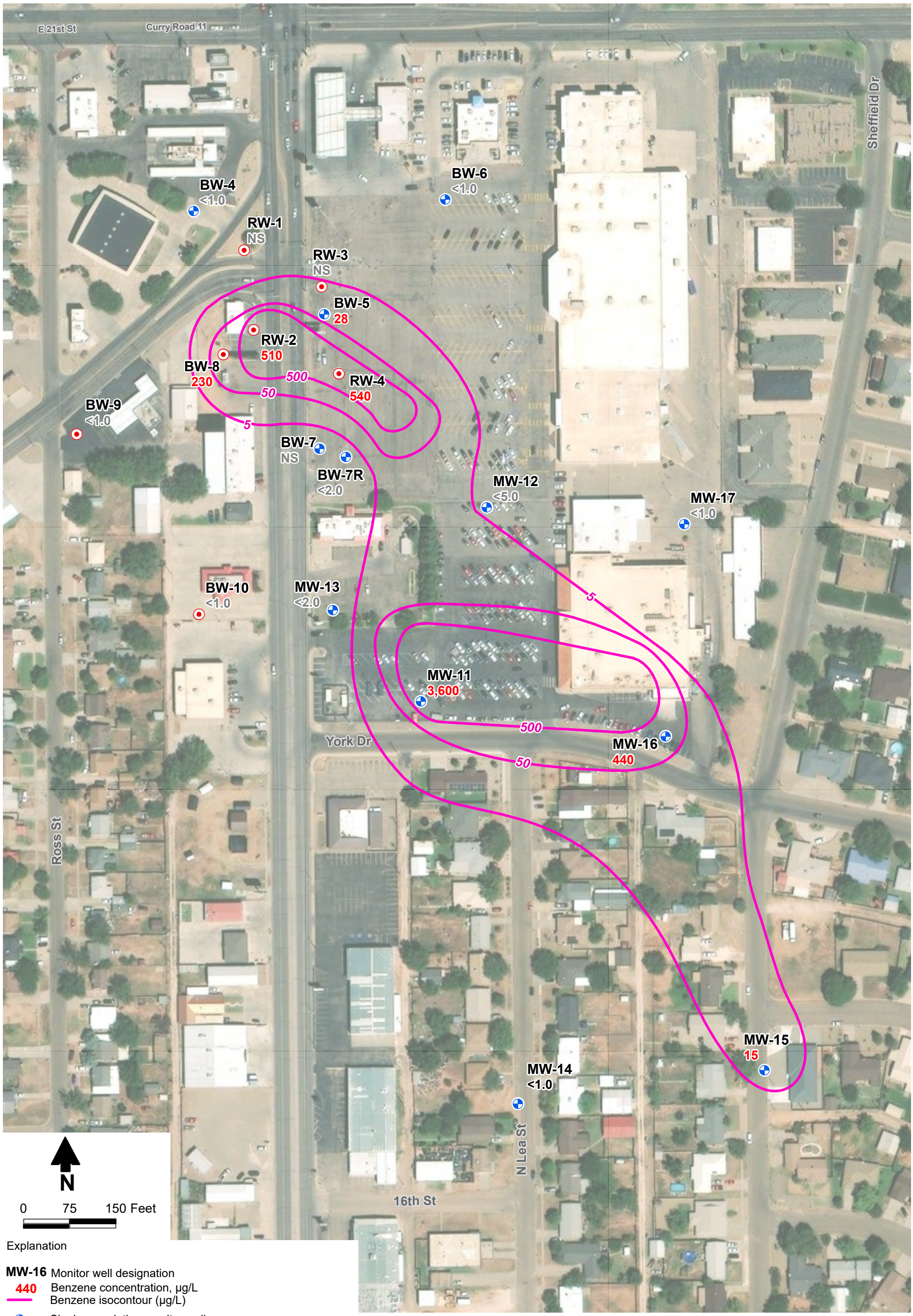
Distribution of Dissolved-Phase Contaminants
December 16-17, 2024 and January 3, 2025

Figure 10

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3/19/2025 JN DB18.1157

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Explanation

MW-16 Monitor well designation

440 Benzene concentration, µg/L

Benzene isocontour (µg/L)

Single completion monitor well

Nested monitor well

Aerial image: Maxar, Vivid 8/20/2023

Notes: 1. All concentrations reported in micrograms per liter (µg/L).
2. **RED** indicates concentration that exceeds NMWQCC standard.
3. Samples on this figure were collected using HydraSleeve sampling devices.
4. NS = Not sampled

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3/19/2025 JN DB18.1157

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Benzene Isoconcentration Map
December 16-17, 2024 and January 3, 2025

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Explanation

MW-15 Monitor well designation

0.18 EDB concentration, µg/L

EDB 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 on this figure were collected using HydraSleeve sampling devices.
4. NS = Not sampled

Aerial image: Maxar, Vivid 8/20/2023

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

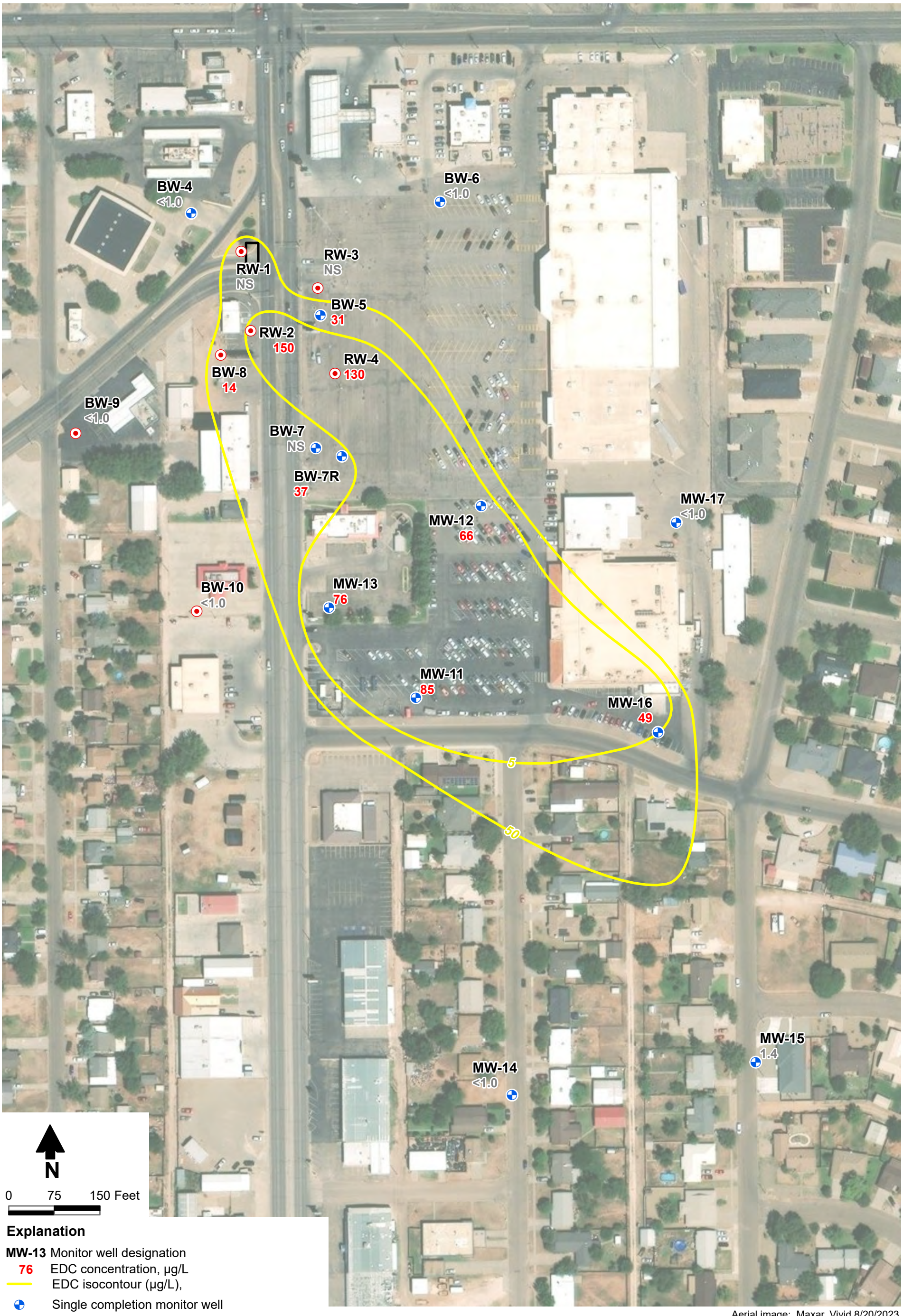
EDB Isoconcentration Map
December 16-17, 2024 and January 3, 2025

Figure 12

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3/19/2025 JN DB18.1157

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Explanation

MW-13 Monitor well designation

76 EDC concentration, µg/L

EDC isocontour (µg/L),

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 on this figure were collected using HydraSleeve sampling devices.
4. NS = Not sampled

Aerial image: Maxar, Vivid 8/20/2023

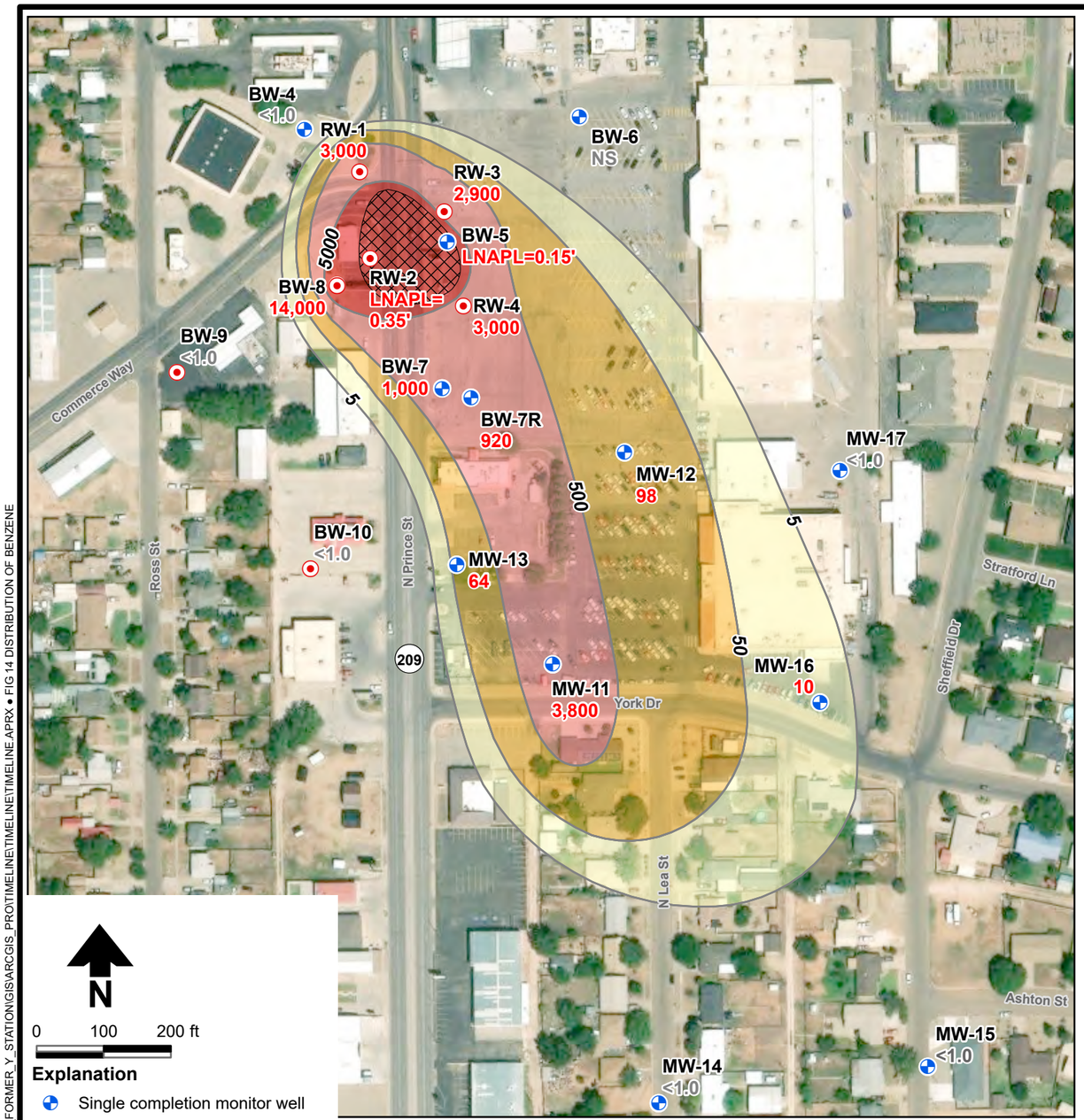
Figure 13

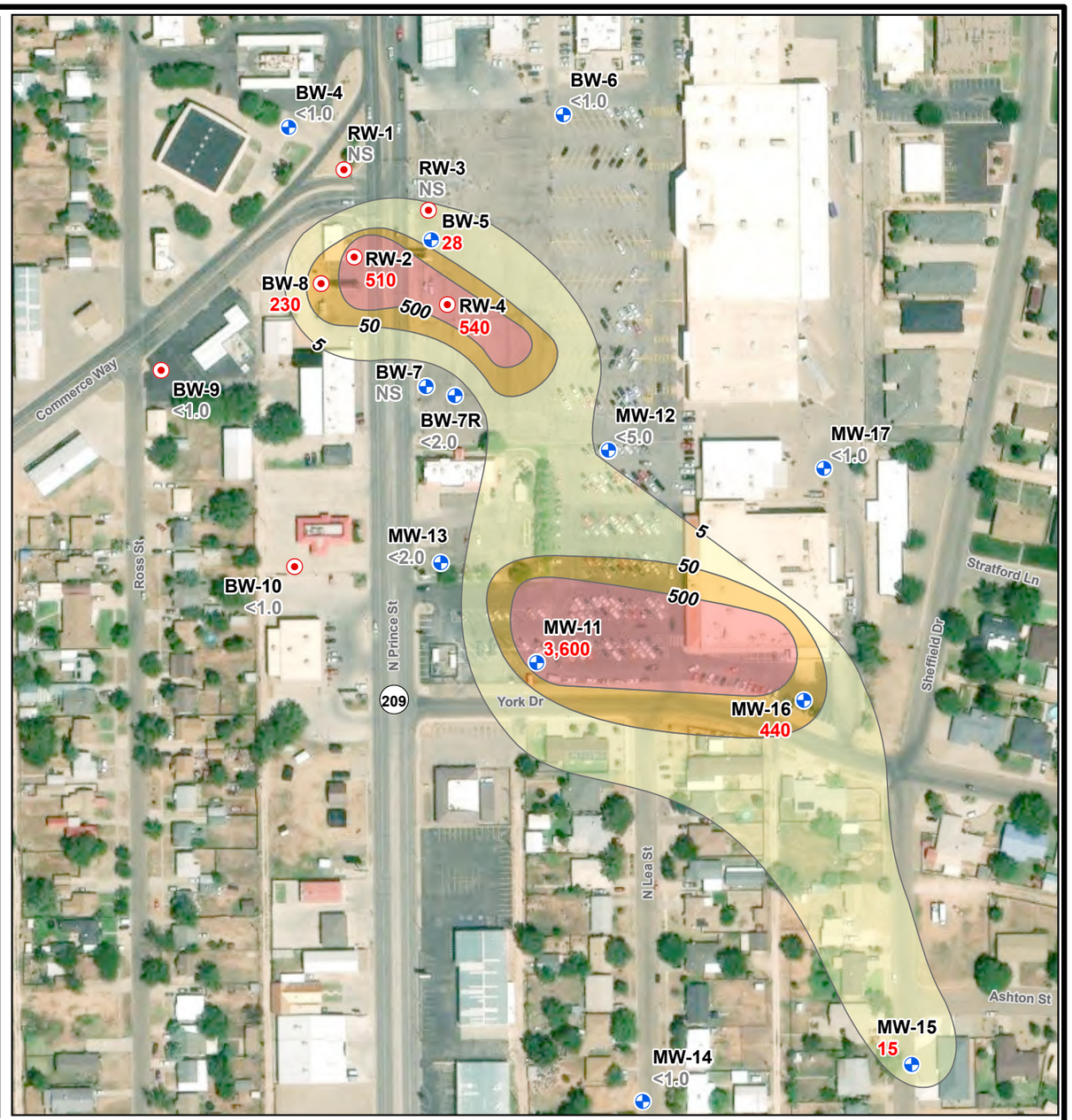
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FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

EDC Isoconcentration Map
December 16-17, 2024 and January 3, 2025





N

0 100 200 ft

Explanation

- Single completion monitor well
- Nested monitor well
  - **MW-11** Monitor well designation
  - **3,800** Benzene concentration, µg/L
  - **0.15'** LNAPL thickness
- Approximate extent of free-phase hydrocarbons

Notes:
1. LNAPL = Light nonaqueous-phase liquid
2. ND = Non-detect
3. NS = Not sampled

March 2021

December 2024

DBS&A a Geo-Logic Company

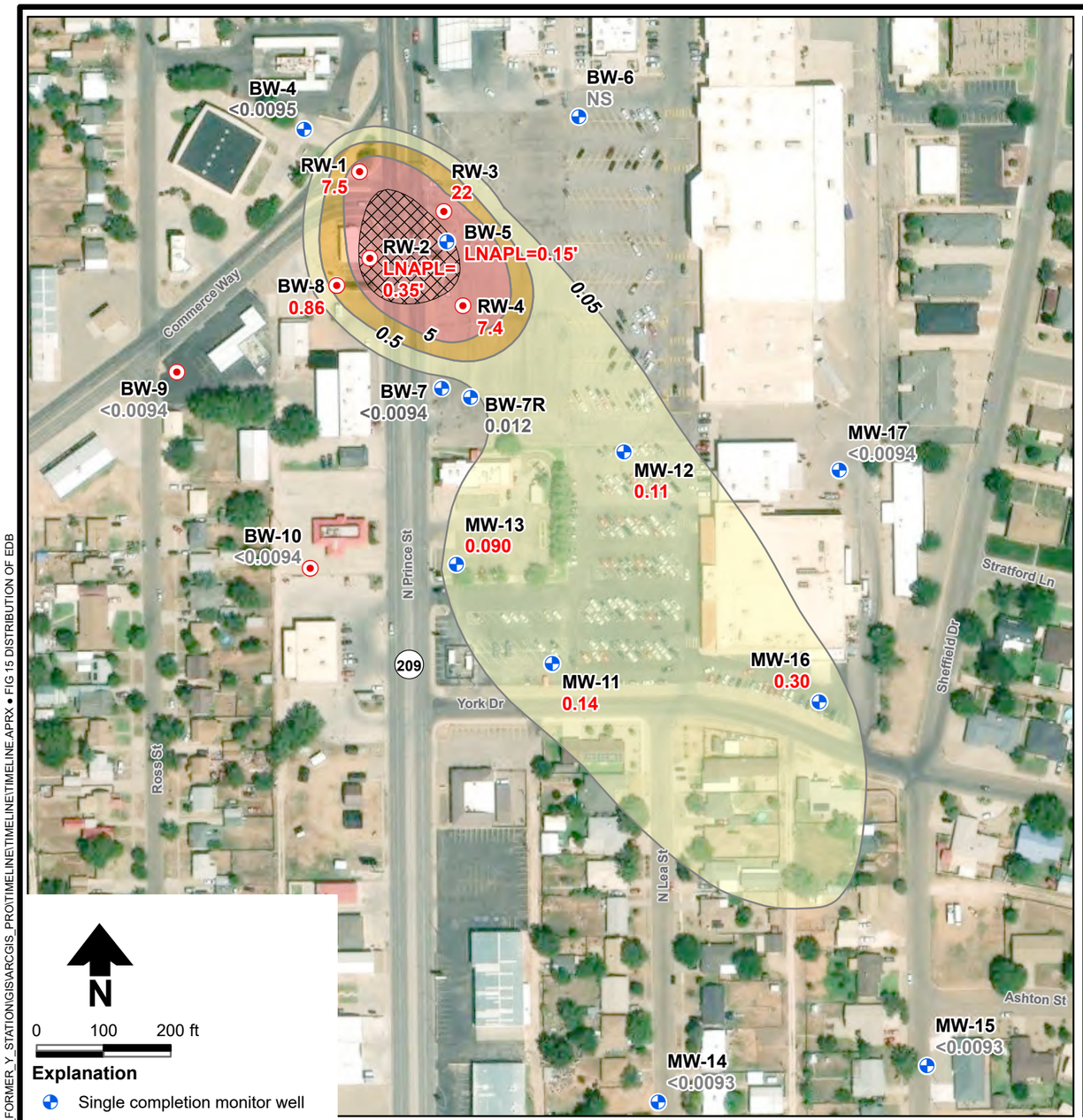
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FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Distribution of Benzene in Groundwater Over Time

Figure 14

\\DATA1ABQ\DATA\PROJECTS\DB18.1157_FORMER_Y_STATION\GIS\ARCGIS_PRO\TIMELINE\TIMELINE.APRX • FIG 14 DISTRIBUTION OF BENZENE





N

0 100 200 ft

Explanation

- Single completion monitor well
- Nested monitor well
- **MW-11** Monitor well designation
- **0.14** EDB concentration, µg/L
- **0.15'** LNAPL thickness

Notes:
1. LNAPL = Light nonaqueous-phase liquid
2. ND = Non-detect
3. NS = Not sampled

EDB concentration in groundwater µg/L

- 0.05
- 0.5
- 5
- Approximate extent of free-phase hydrocarbons

March 2021

December 2024

DBS&A a Geo-Logic Company

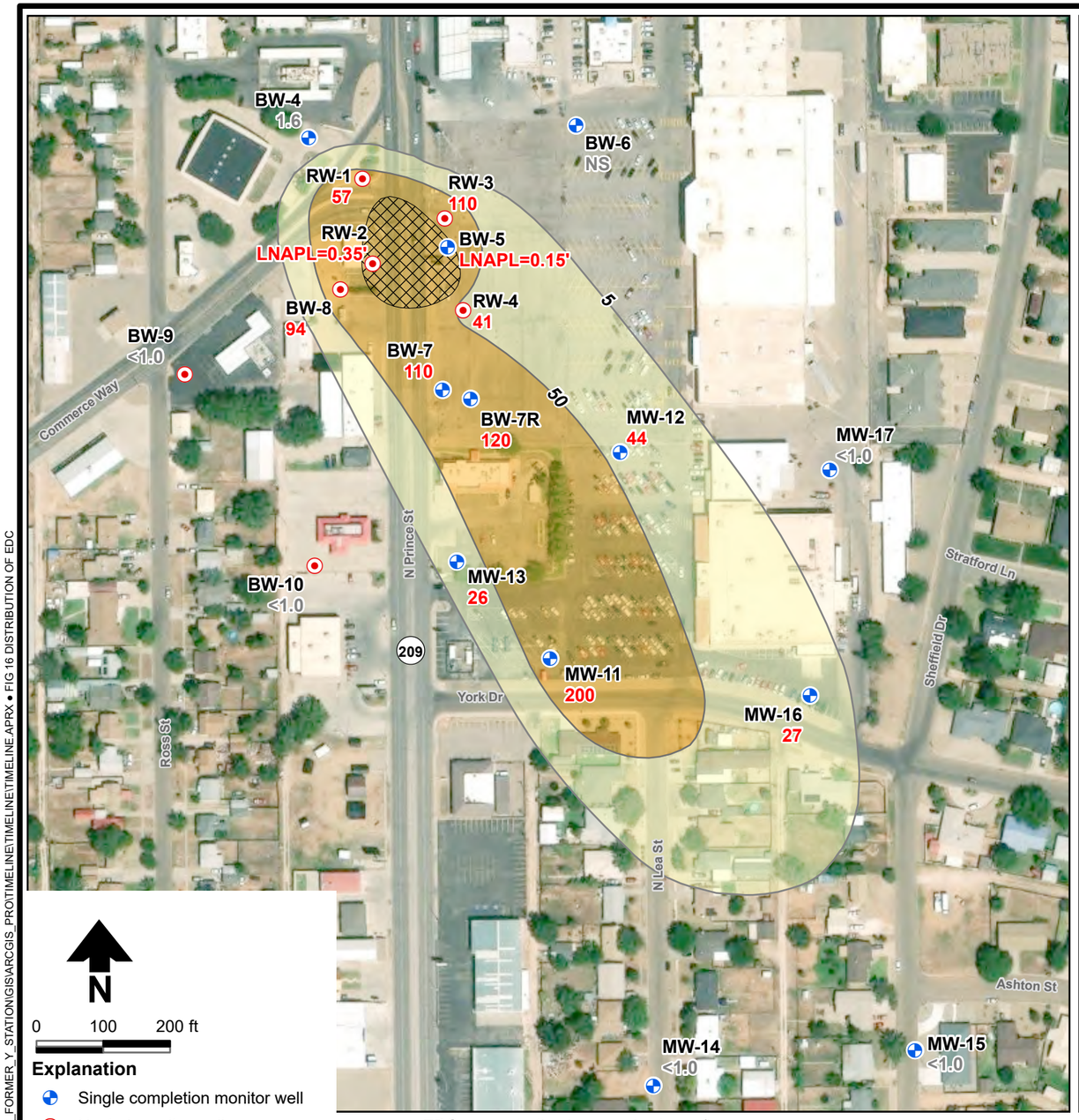
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FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Distribution of EDB in Groundwater Over Time

Figure 15

\\DATA1ABQ\DATAS\PROJECTS\DB18.1157_FORMER_Y_STATION\GIS\ARCGIS_PRO\TIMELINE\TIMELINE.APRX • FIG 15 DISTRIBUTION OF EDB



March 2021



December 2024

N

0 100 200 ft

Explanation

- Single completion monitor well
- Nested monitor well
- **MW-11** Monitor well designation
- **200** EDC concentration, µg/L
- **0.15'** LNAPL thickness

Notes:
1. LNAPL = Light nonaqueous-phase liquid
2. ND = Non-detect
3. NS = Not sampled

EDC concentration in groundwater µg/L

- 5
- 50
- Approximate extent of free-phase hydrocarbons

DBS&A a Geo-Logic Company

3/26/2025 DB18.1157

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Distribution of EDC in Groundwater Over Time

Figure 16

\\DATA1\ABQ\DATA\PROJECTS\DB18.1157_FORMER_Y_STATION\GIS\ARCGIS_PRO\TIMELINE\TIMELINE\TIMELINE_APRX • FIG 16 DISTRIBUTION OF EDC

Tables

Table 1. SVE System Manifold and Oxidizer Operation Data
Page 1 of 2

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_2O)	PID (ppmv)	Flow [a] (cfm)	Vac [b] (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac [b] (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac [b] (in. H_2O)	PID (ppmv)	Flow [c] (cfm)	Vac [d] (in. H_2O)
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
2/8/2024	2,301	8:40	1,329	1,290	59	119	287	59	Off			1,026	1,017	61	59	725	68
2/19/2024	2,568	13:00	776	1,633	66	64	301	65	Off			643	974	65	38	729	69
3/5/2024	SVE system off due to thermal oxidizer fault																
3/26/2024																	
4/17/2024																	
4/28/2024																	
7/12/2024	2,623	12:18	755	980	54	9	246	54	Off			394	1,045	54	27	777	48
7/29/2024	3,031	15:22	916	686	49	51	277	48	Off			750	1,004	49	56	754	51
8/14/2024	3,309	15:53	1,349	785	58	78	293	57	Off			948	962	59	73	755	57
8/26/2024	3,609	9:20	NR	717	66	NR	286	65	Off			NR	947	67	NR	727	63
9/12/2024	3,953	7:06	520	917	68	20	237	68	Off			399	961	68	44	739	65
9/26/2024	4,254	8:00	697	804	75	Off			Off			640	608	76	4	508	74
10/7/2024	4,541	7:10	621	468	71	Off			Off			562	468	71	48	513	74
10/28/2024	5,006	7:26	719	NR	52	Off			Off			719	NR	52	42	535	68
11/11/2024	5,450	13:45	595	815	54	Off			Off			595	815	54	16	600	57
12/4/2024	5,639	10:00	396	841	54	Off			Off			396	841	54	11	576	58
12/18/2024	5,680	10:52	NR	NR	NR	Off			Off			NR	NR	NR	NR	614	66
12/27/2024	5,845	11:30	1,560	NR	63	Off			Off			1,560	NR	63	NR	583	65
1/2/2025	6,013	7:30	373	1,014	61	Off			Off			373	1,014	61	15	603	65
1/23/2025	6,358	13:20	919	NR	67	Off			Off			919	NR	67	5	584	72

Notes are provided on the next page.

Table 1. SVE System Manifold and Oxidizer Operation Data
Page 2 of 2

[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. H_2O = Inches water column
NA = Not available
NR = No reading

Table 2. SVE System Wellhead Operation Data
Page 1 of 3

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_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (scfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (scfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (scfm)	Vac (in. H_2O)
11/2/2023	NR	NR	NR	NR	NR	NR	NR	2,106	59	29	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
11/3/2023	NR	1,773	NR	30	3,065	NR	30	1,829	55	30	1,719	NR	30	1,658	NR	29	1,075	31	29	373	NR	30	NR	NR	NR
11/6/2023	15:49	NR	NR	NR	NR	NR	NR	1,970	NR	31	NR	NR	NR	NR	NR	NR	1,269	NR	32	NR	NR	NR	NR	NR	NR
11/8/2023	7:26	1,445	NR	32	3,063	NR	32	3,321	NR	33	2,016	NR	37	4,609	NR	41	1,751	NR	45	236	NR	34	2,128	NR	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	NR	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
2/8/2024	8:40	226	58	37	390	35	38	921	60	37	1,951	52	39	3,166	46	37	2,344	33	37	159	41	43	72	34	42
2/19/2024	13:00	264	53	39	209	34	40	701	57	39	1,342	53	43	1,657	51	43	1,612	33	43	29	48	45	146	39	45
3/5/2024	SVE system off due to thermal oxidizer fault																								
3/26/2024																									
4/17/2024																									
4/28/2024																									
7/12/2024	14:50	265	49	31	277	34	31	1,131	52	31	1,170	53	34	1,874	48	32	1,617	32	33	36	35	27	55	27	27
7/30/2024	19:33	242	54	32	305	35	32	992	54	32	1,769	55	34	2,542	48	33	2,373	33	33	Off (valve closed)			Off (valve closed)		
8/14/2024	7:47	250	62	39	261	42	40	1,035	65	39	1,759	60	42	2,419	54	41	3,057	40	41	Off (valve closed)			Off (valve closed)		
8/26/2024	16:16	NR	68	42	NR	44	43	NR	NR	42	NR	76	46	NR	70	46	Off (valve closed)			Off (valve closed)			Off (valve closed)		
9/12/2024	10:30	243	65	45	312	43	45	805	68	45	Off (pump out of well)			Off (pump out of well)			Off (pump out of well)			35	53	48	17	43	48
9/26/2024	7:40	229	77	52	305	53	52	1,079	84	52	Off (pump out of well)			Off (pump out of well)			Off (pump out of well)			Off (valve closed)			Off (valve closed)		
10/7/2024	7:10	NR	67	49	NR	49	50	NR	80	49	Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)		
10/28/2024	NR	352	NR	34	670	NR	35	1383	NR	34	Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)		
11/11/2024	14:00	228	61	36	297	40	36	801	66	37	Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)		
12/4/2024	12:13	112	58	35	137	38	35	392	59	35	NR	58	38	NR	50.4	36.8	NR	45	37	Off (valve closed)			Off (valve closed)		
12/18/2024	11:30	NR	52	NR	NR	42	NR	NR	44	NR	NR	56	NR	NR	43	NR	NR	54	NR	Off (valve closed)			Off (valve closed)		
12/27/2024	11:40	171	NR	37	199	NR	37	755	NR	37	1,357	NR	40	1,627	NR	38	2,411	NR	38	Off (valve closed)			Off (valve closed)		
1/2/2025	7:30	95	59	36	74	37	37	378	61	36	1,168	57	40	962	50	39	1,913	47	39	Off (valve closed)			Off (valve closed)		
1/23/2025	13:20	154	58	37	155	33	38	640	57	37	1,086	61	42	1,258	56	40	1,758	50	40	Off (valve closed)			Off (valve closed)		

Notes are provided at the end of the table.

Table 2. SVE System Wellhead Operation Data
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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_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (scfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (scfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (scfm)	Vac (in. H_2O)
11/2/2023	NR	1,892	39	29	NR	NR	NR	NR	NR	NR	3,479	48	30	NR	NR	NR	NR	NR	NR	1,638	47	30	1,786	66	31
11/3/2023	NR	1,730	46	23	160	NR	35	1,483	NR	34	1,552	11	9	229	NR	27	479	NR	28	1,694	55	34	638	63	34
11/6/2023	15:49	1,398	NR	33	205	NR	37	1,365	NR	36	1,376	NR	34	NR	NR	NR	NR	NR	NR	1,631	NR	31	NR	NR	NR
11/8/2023	7:26	1,680	NR	34	232	NR	41	2,297	NR	39	1,819	NR	38	316	NR	33	1,051	NR	32	1,854	NR	33	463	NR	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
2/8/2024	8:40	1,682	46	42	66	62	47	113	54	44	1,136	53	44	47	65	37	59	43	37	847	44	37	65	83	48
2/19/2024	13:00	1,539	50	44	21	55	48	24	55	47	966	63	48	201	45	40	351	45	41	1,024	46	41	37	88	48
3/5/2024	SVE system off due to thermal oxidizer fault																								
3/26/2024																									
4/17/2024																									
4/28/2024																									
7/12/2024	14:50	138	NR	26	27	57	36	144	50	35	1,396	49	35	14	61	32	51	43	32	880	53	32	25	70	36
7/30/2024	19:33	Off (valve closed)			7	56	35	22	46	35	1,830	44	35	136	62	32	177	45	32	1,066	51	32	9	68	35
8/14/2024	7:47	Off (valve closed)			15	71	48	16	59	46	1841	59	46	42	72	39	26	52	39	875	59	39	24	80	43
8/26/2024	16:16	Off (valve closed)			NR	76	52	NR	60	51	NR	62	51	5	85	46	17	63	46	NR	70	46	NR	88	47
9/12/2024	10:30	1,215	64	48	7	74	50	26	62	48	695	57	48	63	77	44	126	58	44	842	68	44	Off (valve closed)		
9/26/2024	7:40	1,780	89	62	Off (valve closed)			Off (valve closed)			898	86	64	72	90	51	141	67	51	878	84	51	Off (valve closed)		
10/7/2024	7:10	NR	87	58	Off (valve closed)			Off (valve closed)			NR	92	63	68	84	48	246	62	48	833	72	48	Off (valve closed)		
10/28/2024	8:00	1,698	NR	43	Off (valve closed)			Off (valve closed)			763	NR	44	326	NR	35	245	NR	35	856	NR	35	Off (valve closed)		
11/11/2024	14:00	1,678	75	44	Off (valve closed)			Off (valve closed)			Off (valve closed)			71	74	36	138	64	36	776	65	36	Off (valve closed)		
12/4/2024	12:13	NR	60	44	28	64	43	36	57	42	NR	49	42	11	72	36	31	50	36	368	50	36	Off (valve closed)		
12/18/2024	11:30	NR	60	NR	NR	65	NR	NR	54	NR	NR	56	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Off (valve closed)		
12/27/2024	11:40	1,643	NR	44	30	NR	46	49	NR	45	106	NR	45	31	NR	37	58	NR	37	738	NR	37	Off (valve closed)		
1/2/2025	7:30	675	58	47	21	68	48	63	64	46	653	65	46	370	69	35	475	40	35	442	49	35	Off (valve closed)		
1/23/2025	13:20	980	60	49	Off (valve closed)			28	71	50	501	60	51	24	74	40	31	52	40	658	52	40	Off (valve closed)		

Notes are provided at the end of the table.

Table 2. SVE System Wellhead Operation Data
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Date	Time	MW-11			MW-12			MW-13			MW-16		
		PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)	PID (ppmv)	Flow [a] (cfm)	Vac (in. H_2O)
11/2/2023	NR	8	67	32	NR	NR	NR	Off (valve closed)			113	108	35
11/3/2023	NR	175	64	38	303	64	34	NR	NR	NR	127	98	34
11/6/2023	15:49	NR	NR	35	NR	NR	NR	NR	NR	33	NR	NR	33
11/8/2023	7:26	86	NR	39	148	NR	7	58	NR	36	249	NR	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	Off (valve closed)			40	109	36
2/8/2024	8:40	Off (valve closed)			58	92	49	Off (valve closed)			Off (valve closed)		
2/19/2024	13:00	Off (valve closed)			NR	NR	NR	Off (valve closed)			Off (valve closed)		
3/5/2024	SVE system off due to thermal oxidizer fault												
3/26/2024													
4/17/2024													
4/28/2024													
7/12/2024	14:50	Off (valve closed)			44	73	37	Off (valve closed)			62	105	36
7/30/2024	19:33	Off (valve closed)			11	71	36	Off (valve closed)			42	115	35
8/14/2024	7:47	Off (valve closed)			21	83	44	Off (valve closed)			NR (well inaccessible)		
8/26/2024	16:16	Off (valve closed)			NR	87	47	Off (valve closed)			NR	125	48
9/12/2024	10:30	Off (valve closed)			NR	NR	NR	Off (valve closed)			37	NR	51
9/26/2024	7:40	Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)		
10/7/2024	7:10	Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)		
10/28/2024	8:00	Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)		
11/11/2024	14:00	Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)		
12/4/2024	12:13	Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)		
12/18/2024	11:30	Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)		
12/27/2024	11:40	Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)		
1/2/2025	7:30	Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)		
1/23/2025	13:20	Off (valve closed)			Off (valve closed)			Off (valve closed)			Off (valve closed)		

[a] Vapor flow reading measured with a VelociCalc flow meter.

SVE = Soil vapor extraction
PID = Photoionization detector
ppmv = Parts per million by volume
cfm = Cubic feet per minute
in. H_2O = Inches water column
NR = Not reading

Table 3. Water Flow Meter Readings for Individual Wells and Treated Discharge
Page 1 of 4

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]
OSE POD Number		*CC-02536 POD1*		*CC-02536 POD2*		*CC-02536 POD3*		*CC-02536 POD4*		*CC-02536 POD5*		*CC-02536 POD6*		*CC-02536 POD7*	
Meter Serial Number		*20 006378 NL*		*20 006383 NL*		*20 006383 NL*		*20 006382 NL*		*20 006376 NL*		*20 006379 NL*		*20 006585 NL*	
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
2/8/2024	08:40	211,117	12.1	52,968	26.9	384,197	33.4	337,494	28.3	81,024	22.6	227,235	25.9	210,897	25.0
2/19/2024	13:00	235,686	10.3	69,679	42.8	393,974	33.9	363,939	29.3	91,615	27.8	238,678	25.4	233,831	24.3
2/21/2024	07:00	237,460	15.3	69,905	22.7	394,889	34.8	368,428	29.1	92,638	21.2	240,227	25.4	235,580	24.7
2/29/2024	17:30	252,793	NR	75,128	NR	402,886	NR	391,988	NR	102,965	NR	248,485	NR	248,798	NR
3/5/2024	15:00	260,565	9.0	80,874	50.1	408,305	33.9	402,619	29.0	108,118	22.9	248,485	29.8	254,856	24.8
3/24/2024	10:00	291,302	NR	81,136	NR	422,501	NR	438,280	NR	113,783	NR	248,492	NR	272,667	NR
3/25/2024	10:00	292,910	NR	81,136	NR	422,501	NR	440,844	NR	113,783	NR	248,492	NR	273,521	NR
3/26/2024	08:00	294,511	8.7	81,136	28.6	422,579	34.3	443,438	31.6	113,783	23.8	248,492	30.1	274,530	24.5
3/31/2024	10:45	295,988	NR	81,142	NR	423,420	NR	444,681	NR	113,783	NR	248,539	NR	275,840	NR
4/8/2024	10:00	303,198	NR	81,143	NR	423,540	NR	474,054	NR	113,834	NR	249,057	NR	295,708	NR
4/9/2024	10:00	304,513	NR	81,143	NR	423,540	NR	480,553	NR	113,834	NR	249,057	NR	299,502	NR
4/17/2024	11:20	314,353	7.7	81,143	28.9	423,540	31.8	527,098	22.7	113,834	22.6	249,057	NR	322,605	23.4
4/28/2024	07:30	314,506	25.3	81,143	28.7	423,540	31.7	564,930	25.7	113,834	27.7	249,058	NR	345,816	23.8
4/30/2024	09:45	314,506	NR	81,190	NR	423,540	NR	565,803	NR	113,834	NR	249,057	NR	346,461	NR
5/31/2024	09:50	314,937	NR	81,373	NR	423,540	NR	565,803	NR	113,834	NR	249,057	NR	347,490	NR

Notes are provided at the end of the table.

Table 3. Water Flow Meter Readings for Individual Wells and Treated Discharge
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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]
OSE POD Number		*CC-02536 POD1*		*CC-02536 POD2*		*CC-02536 POD3*		*CC-02536 POD4*		*CC-02536 POD5*		*CC-02536 POD6*		*CC-02536 POD7*	
Meter Serial Number		*20 006378 NL*		*20 006383 NL*		*20 006383 NL*		*20 006382 NL*		*20 006376 NL*		*20 006379 NL*		*20 006585 NL*	
6/17/2024	10:00	314,937	25.4	81,373	26	423,547	31.8	565,803	33.9	113,834	28	249,057	NR	347,490	27
6/30/2024	10:00	314,937	NR	81,373	NR	423,547	NR	565,803	NR	113,834	NR	249,057	NR	347,490	NR
7/12/2024	10:01	315,316	NR	81,393	25.8	423,547	NR	565,803	19.7	115,131	9.3	249,057	NR	347,620	26.1
7/13/2024	10:01	315,470	NR	81,394	25.6	423,547	NR	565,803	19.3	116,848	8.5	249,058	NR	347,651	26.1
7/14/2024	10:01	315,470	NR	81,394	25.7	423,547	NR	565,803	23.7	118,518	14.7	249,058	NR	347,652	26.1
7/15/2024	10:01	315,470	NR	81,394	25.7	423,547	NR	566,580	23.8	120,205	12.0	249,058	NR	347,654	26.1
7/16/2024	10:01	315,470	NR	81,394	25.7	423,547	NR	570,673	23.3	121,894	6.1	249,058	NR	347,655	26.1
7/17/2024	10:01	315,470	NR	81,399	25.6	423,547	NR	574,754	23.9	123,575	6.4	249,058	NR	347,656	26.0
7/30/2024	10:01	351,470	NR	81,402	25.9	423,547	NR	606,055	33.5	145,061	6.5	249,058	NR	347,664	26.0
7/31/2024	09:07	351,470	NR	81,402	25.9	423,547	NR	606,055	33.6	146,614	6.7	249,058	NR	347,664	26.1
8/14/2024	08:03	351,470	NR	81,402	25.9	423,547	NR	606,055	33.5	168,515	7.3	249,059	NR	352,274	17.7
8/26/2024	11:00	315,470	NR	81,402	25.9	423,547	NR	606,055	33.5	188,038	6.6	249,059	NR	364,186	26.0
8/31/2024	11:00	315,470	NR	81,404	NR	423,561	NR	606,055	33.4	190,522	13.3	252,090	NR	364,186	11.3
9/25/2024	12:45	315,470	NR	81,404	NR	423,629	NR	606,055	33.5	221,156	14.6	268,168	NR	470,118	25.5
9/30/2024	11:00	315,470	NR	81,404	NR	423,629	NR	606,055	NR	226,364	NR	268,168	NR	470,616	NR
10/7/2024	13:26	315,470	NR	81,404	NR	423,629	NR	606,055	NR	234,011	6.8	268,168	NR	470,616	31.2
10/28/2024	10:00	315,470	NR	81,444	NR	423,629	32.6	606,055	7.6	256,369	5.6	274,041	NR	470,616	26.3
10/31/2024	11:00	315,470	NR	81,444	NR	423,629	NR	697,087 [c]	NR	259,518	NR	274,041	NR	470,616	NR
11/11/2024	11:00	315,470	NR	81,513	NR	423,686	NR	760,759 [c]	NR	271,069	NR	274,056	NR	470,616	NR
11/30/2024	10:00	315,470	NR	81,541	NR	423,717	NR	865,591 [c]	NR	290,137	NR	286,506	NR	470,616	NR
12/4/2024	10:00	315,470	NR	81,547	NR	423,717	32.5	889,399 [c]	25.9	294,406	7.6	291,631	NR	470,616	27
12/18/2025	12:00	315,470	NR	81,547	NR	423,717	31.9	968,503 [c]	32.9	308,338	7.8	308,456	NR	470,161	NR
12/31/2024	10:20	315,470	NR	81,664	NR	423,717	NR	1,044,127 [c]	NR	321,265	NR	317,024	NR	470,616	NR
1/2/2025	07:30	315,470	NR	81,675	NR	423,717	32.4	1,055,071 [c]	33.3	323,106	13.6	318,619	NR	470,616	NR
1/23/2025	12:46	315,470	NR	81,687	NR	423,722	32.3	1,060,807 [c]	33.1	343,678	6.0	330,757	NR	470,616	NR

Notes are provided at the end of the table.

Table 3. Water Flow Meter Readings for Individual Wells and Treated Discharge
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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)
OSE POD Number		*CC-02536 POD8*		*CC-02548 POD3*		*NA*
Meter Serial Number		*20 004229 NL*		*20 006384 NL*		*20 004230 NL*
11/1/2023	—	Remediation system started				
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
2/8/2024	08:40	121,031	22.3	111,464	21.5	1,084,400
2/19/2024	13:00	122,485	22.2	112,054	20.2	1,131,900
2/21/2024	07:00	122,496	22.7	112,054	20.5	NR
2/29/2024	17:30	122,496	NR	112,417	NR	1,203,600
3/5/2024	15:00	122,496	22.6	122,417	20.8	1,226,300
3/24/2024	10:00	126,744	NR	112,417	NR	1,306,800
3/25/2024	10:00	127,551	NR	112,417	NR	1,310,700
3/26/2024	08:00	128,349	21.6	112,417	21.1	1,314,700
3/31/2024	10:45	128,502	NR	112,417	NR	1,318,500
4/8/2024	10:00	139,578	NR	112,417	NR	1,368,900
4/9/2024	10:00	141,542	NR	112,417	NR	1,378,600
4/17/2024	11:20	152,884	21.3	112,417	21.1	1,439,700
4/28/2024	07:30	166,807	21.3	112,417	20.6	1,490,100
4/30/2024	09:45	167,173	NR	112,417	NR	1,491,600
5/31/2024	09:50	167,173	NR	112,417	NR	1,493,600
6/17/2024	10:00	167,173	22	112,417	26	1,493,600

Notes are provided at the end of the table.

Table 3. Water Flow Meter Readings for Individual Wells and Treated Discharge
Page 4 of 4

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)
OSE POD Number		*CC-02536 POD8*		*CC-02548 POD3*		*NA*
Meter Serial Number		*20 004229 NL*		*20 006384 NL*		*20 004230 NL*
6/30/2024	10:00	167,173	NR	112,417	NR	1,493,600
7/12/2024	10:01	168,787	19.1	112,417	28.1	1,503,000
7/13/2024	10:01	171,043	18.7	112,417	28.4	1,510,000
7/14/2024	10:01	173,309	18.7	112,417	28.7	1,516,300
7/15/2024	10:01	175,591	18.8	112,417	27.9	1,522,200
7/16/2024	10:01	177,869	18.7	112,417	28.5	1,528,300
7/17/2024	10:01	180,159	18.6	112,417	26.2	1,534,500
7/30/2024	10:01	200,492	20.6	112,417	26.3	1,587,100
7/31/2024	09:07	201,561	20.5	112,417	26.3	1,589,100
8/14/2024	08:03	212,865	20.9	112,417	26.3	1,620,400
8/26/2024	11:00	219,180	21.0	112,417	26.4	1,652,400
8/31/2024	11:00	220,680	21.3	112,417	26.7	1,674,900
9/25/2024	12:45	232,669	21.7	112,417	26.2	1,804,700
9/30/2024	11:00	240,473	NR	112,417	NR	1,810,600
10/7/2024	13:26	250,650	20	112,417	NR	1,828,500 [d]
10/28/2024	10:00	270,734	21.2	112,417	25.3	1,951,309 [d]
10/31/2024	11:00	273,743	NR	112,417	NR	1,974,000 [d]
11/11/2024	11:00	281,532	NR	112,417	NR	2,057,200 [d]
11/30/2024	10:00	281,631	NR	112,575	NR	2,193,900 [d]
12/4/2024	10:00	281,631	21.4	112,575	21.3	2,227,108 [d]
12/18/2025	12:00	281,631	21.4	113,200	21.9	2,337,139 [d]
12/31/2024	10:20	281,631	NR	114,838	NR	2,436,500 [d]
1/2/2025	07:30	281,631	21.7	114,938	21.8	2,450,991 [d]
1/23/2025	12:46	281,631	21.5	156,955	21.4	2,531,471 [d]

[a] Flow meters are all Pulsafeeder Multijet Model PME.

[b] Height of water column above the installed pressure transducer.

[c] Flow total is calculated using pump motor runtime hours and a measured flow rate of 4 gallons per minute.

[d] Totalized flow calculated using the influent flow totals from wells due to flow meter malfunction.

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 4

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	<0.25	180
	11/28/2023	16	15	1.6	17	50	<0.25	160
	2/19/2024	1.5	1.0	0.20	1.7	4.4	<0.25	17
	3/26/2024	0.13	<0.10	<0.10	<0.20	0.13	NR	<5.0
	7/29/2024	<0.10	<0.10	<0.10	<0.20	<0.50	<0.25	<5.0
	8/26/2024	<0.10	0.76	0.23	1.6	2.6	NR	14
	9/26/2024	<0.10	0.19	<0.10	0.51	0.70	NR	<5.0
	1/3/2025	1.2	0.89	0.41	2.4	4.90	<0.25	19
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	34	730	<1.0	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

Notes are provided at the end of the table.

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

Sampling Point	Date Sampled	Concentration [a] (µg/L)						
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	TPH GRO
SVE Combined Influent (cont.)	2/8/2024	150	630	56	280	1,116	<25	14,000
	2/19/2024	68	320	33	160	581	<12	6,700
	3/5/2024	SVE system off due to thermal oxidizer fault						
	3/26/2024							
	4/17/2024							
	4/28/2024							
	7/12/2024	65	250	22	110	447	<13	7,200
	7/29/2024	56	240	23	110	429	<13	5,600
	8/14/2024	38	160	16	77	291	<13	4,700
	8/26/2024	20	68	9.3	36	133	<13	1,800
	9/12/2024	21	130	18	87	256	<13	3,100
	9/26/2024	33	230	34	160	457	<13	5,200
	10/8/2024 [b]	0.067	0.50	0.068	0.18	0.82	<0.25	15
	10/28/2024	32	210	27	120	389	<13	4,600
	11/11/2024	30	230	37	180	477	<13	5,300
	12/4/2024	17	130	16	61	224	<13	2,600
	12/18/2024	15	8.6	<5.0	<10	24	<13	2,700
	1/3/2025	18	170	27	120	335	<13	3,500
	1/24/2025	25	240	34	150	449	<13	7,200

Notes are provided at the end of the table.

Table 4. Analytical Organic Chemistry Data for the Remediation System, Air
Page 3 of 4

Sampling Point	Date Sampled	Concentration [a] (µg/L)						
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	TPH GRO
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
	12/12/2023	8.3	5.0	0.36	1.2	15	<0.25	55
	1/3/2024	6.0	3.6	0.24	0.80	11	<0.25	36
	1/16/2024	6.8	6.3	0.48	2.0	16	<0.20	74
	1/31/2024	4.3	6.5	1.0	6.1	18	<0.20	76
	2/8/2024	3.7	9.4	2.0	12	27	<0.25	110
	2/19/2024	2.9	2.6	0.32	1.9	7.7	<0.25	27
	3/5/2024	SVE system off due to thermal oxidizer fault						
	3/26/2024							
	4/17/2024							
	4/28/2024							
	7/12/2024	3.5	1.7	0.12	0.39	5.7	<0.25	21
	7/29/2024	3.4	2.0	0.15	0.56	6.1	<0.25	21
	8/14/2024	2.5	3.0	0.43	2.3	8.2	<0.25	38
	8/26/2024	1.1	1.4	0.23	1.4	4.1	<0.25	19

Notes are provided at the end of the table.

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

Sampling Point	Date Sampled	Concentration [a] (µg/L)						
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	TPH GRO
Oxidizer Effluent (cont.)	9/12/2024	0.30	0.63	0.17	1.0	2.1	<0.25	11
	9/26/2024	0.41	0.47	0.15	0.94	2.0	<0.25	8
	10/8/2024	0.56	5.8	0.64	2.4	9.4	<0.25	64
	10/28/2024 [b]	0.55	5.2	1.4	8.1	15.3	<0.25	54
	11/11/2024	0.18	0.18	0.070	0.50	0.9	<0.25	4.7
	12/4/2024	0.30	1.9	0.60	3.4	6.2	<0.25	22
	12/18/2024	0.15	0.93	0.067	0.13	1.3	<0.25	13
	1/3/2025	0.39	1.7	0.60	3.7	6.4	<0.25	28
	1/24/2025	0.15	0.065	<0.10	<0.20	0.22	<0.25	<5.0

[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 4

Well Name	Date Sampled	Concentration [a] (µg/L)									TPH GRO (mg/L) [c]
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB [b]	EDC	PAHs	
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*	*NA*
GW Combined Influent	11/1/2023	**640**	260	30	170	1,100	<1.0	**2.3**	**55**	8.2	3.8
	11/3/2023	**1,100**	750	71	440	2,361	<1.0	**14**	**97**	**33.2**	6.9
	11/9/2023	**1,300**	**1,020**	48	523	2,891	<13.9	<10 [d]	**115**	<13.5 [e]	6.09
	11/16/2023	**1,400**	**1,000**	70	590	3,060	<20	**21**	**180**	<200 [d]	7.8
	11/22/2023	**1,200**	840	58	560	2,658	<2.0	**15**	**120**	**32.8**	7.0
	11/28/2023	**2,000**	950	58	**620**	3,628	<20	**22**	**230**	<200 [d]	8.2
	12/14/2023	**1,700**	**1,700**	110	**1,100**	4,610	<20	**42**	**210**	**46**	11
	1/3/2024	**990**	470	31	320	1,811	<20	**12**	**140**	<200 [d]	5.3
	1/16/2024	**850**	590	35	370	1,845	<20	**12**	**140**	<200 [d]	5.6
	1/31/2024	**36**	21	0.80	12	69.80	<1.0	**12**	**6.1**	<10	4.0
	2/8/2024	**820**	400	19.00	260	1,499	1.3	**9.1**	**130**	27.3	4.2
	2/19/2024	**1,100**	310	18.00	280	1,708	<5.0	**7.6**	**160**	14	4.5
	3/5/2024	**31**	<1.0	<1.0	6.9	37.9	<1.0	**1.2**	**85**	<10	0.35
	3/26/2024	**130**	24	<1.0	35	189	<1.0	**5.9**	**91**	2.6	0.71
	4/17/2024	**290**	270	<5.0	130	690	<5.0	**9.3**	**95**	<50	2.0
	4/28/2024	**490**	410	7.5	200	1,108	<5.0	**9.5**	**130**	13	3.2
	7/12/2024	**160**	130	<5.0	120	410	<5.0	**2.8**	**45**	<50 [d]	1.2
	7/29/2024	**13**	<5.0	<5.0	23	36	<5.0	0.025	**82**	<50 [d]	0.67
	8/14/2024	**130**	<2.0	<2.0	19	149	<2.0	**0.71**	**130**	<20	1.1
	8/26/2024	<5.0	<5.0	<5.0	<7.5	<22.5	<5.0	**0.75**	**130**	<50 [d]	0.22

Notes are provided at the end of the table.

Table 5. Analytical Organic Chemistry Data for the Remediation System, Water
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Well Name	Date Sampled	Concentration [a] (µg/L)									TPH GRO (mg/L) [c]
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB [b]	EDC	PAHs	
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*	*NA*
GW Combined Influent (cont.)	9/12/2024	**120**	<5.0	<5.0	28	148	<5.0	**1.8**	**110**	<50 [d]	0.85
	9/26/2024	**8.9**	<5.0	<5.0	<7.5	8.9	<5.0	**0.52**	**96**	1.3	0.17
	10/7/2024 [f]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095	0.3	<10	<0.050
	10/28/2024	**880**	590	10	470	1,950	<5.0	**210**	<5.0	**30**	6.3
	11/11/2024	**950**	990	50	780	2,770	<5.0	**33**	**160**	**40**	8.4
	12/4/2024	**370**	120	17	190	697	<5.0	**6.3**	**87**	6.8	1.7
	12/18/2024	**690**	6.2	18	42	756	<5.0	**0.14**	**100**	5.7	3.0
	1/2/2025	**1,100**	68	48	120	1,336	<5.0	**2.0**	**83**	17	3.8
	1/24/2025	**770**	92	45	120	1,027	<10	**3.1**	**66**	19	3.2
OWS Effluent	11/3/2023	**1,100**	770	65	450	2,385	<1.0	**14**	**97**	**37.2**	6.7
GW Treated Effluent	11/1/2023	**19**	9.1	1.0	7.2	36.3	<1.0	**0.58**	**9.3**	3.8	0.16
	11/3/2023	**42**	28	2.1	18	90.1	<1.0	**3.8**	**18**	9.3	0.38
	11/9/2023	**31**	23.6	1.1	14.3	69.9	<1.39	**4.5**	**15.5**	7.69 [e]	<1.08
	11/16/2023	**59**	38	2.4	25	124.4	<1.0	**6.3**	**30**	12	0.45
	11/22/2023	**39**	26	1.5	19	85.5	<1.0	**3.4**	**19**	7.9	0.36
	11/28/2023	**58**	29	1.3	20	108.3	<1.0	**5.4**	**25**	8.0	0.46
	12/14/2023	**21**	15	<1.0	11	47	<1.0	**4.4**	**19**	4.9	0.24
	1/3/2024	**5.4**	2.6	<1.0	2.5	10.5	<1.0	**1.4**	**5.5**	2.6	0.12
	1/16/2024	**8.2**	5.9	<1.0	4.8	18.9	<1.0	**1.8**	**10**	2.6	0.17
	1/31/2024	3.0	1.9	<1.0	1.6	6.5	<1.0	**1.2**	**5.0**	<10	0.09

Notes are provided at the end of the table.

Table 5. Analytical Organic Chemistry Data for the Remediation System, Water
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Well Name	Date Sampled	Concentration [a] (µg/L)									TPH GRO (mg/L) [c]
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB [b]	EDC	PAHs	
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*	*NA*
GW Treated Effluent (cont.)	2/8/2024	2.1	1.0	<1.0	<1.5	3.1	<1.0	**0.73**	4.1	<10	0.097
	2/19/2024	1.1	<1.0	<1.0	<1.5	1.1	<1.0	**0.40**	1.7	2.9	0.098
	3/5/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	0.031	<1.0	<10	<0.050
	3/26/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	**0.18**	1.1	<10	<0.050
	4/17/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	**0.55**	2.2	<10	0.073
	4/28/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	**0.22**	1.5	<10	<0.050
	7/12/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	**0.087**	1.1	<10	<0.050
	7/29/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095	<1.0	<10	<0.050
	8/14/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.10 [d]	2.2	<10	<0.050
	8/26/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	0.0093	<1.0	<10	<0.050
	9/12/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	**0.13**	3.0	<10	<0.050
	9/26/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095	<1.0	<10	<0.050
	10/7/2024 [f]	**7.6**	<1.0	0.6	15	23.2	<1.0	<0.051 [d]	**86**	1.3	0.41
	10/28/2024	2.8	1.9	<1.0	2.5	7.2	<1.0	**1.4**	**5.2**	5.0	0.15
	11/11/2024	2.3	1.5	<1.0	2.0	5.8	<1.0	**0.95**	3.6	1.6	0.09
	12/4/2024	0.6	0.4	<1.0	0.9	1.9	<1.0	**0.41**	1.6	0.62	0.05
	12/18/2024	0.7	<1.0	<1.0	<1.5	0.7	<1.0	0.011	1.0	0.43	0.03
	1/2/2025	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	0.014	0.7	<10	0.02
	1/24/20025	<2.0	<2.0	<2.0	<3.0	<9.0	<2.0	0.046	0.6	0.62	0.04

Notes are provided on the next page.

Table 5. Analytical Organic Chemistry Data for the Remediation System, Water
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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] Analyzed using EPA method 8015D.

[d] Reporting limit is equal to or greater than the standard.

[e] Reported as naphthalene only.

[f] Data not believed to be representative of actual field conditions based on other sample results.

µg/L = Micrograms per liter
mg/L = Milligrams 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 (total naphthalenes = naphthalene + 1-methylnaphthalene + 2-methylnaphthalene)
TPH = Total petroleum hydrocarbons
GRO = Gasoline-range organics

Table 6. Analytical Inorganic Chemistry Data for the Remediation System
Page 1 of 4

Well Name	Date Sampled	Concentration [a] (mg/L)			
		Chloride	Nitrate (as N)	Sulfate	TDS [b]
NMWQCC Standard		*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
	2/8/2024	84	1.8	44	492
	2/19/2024	86	<1.0	37	438
	3/5/2024	66	1.3	33	420
	3/27/2024	77	2.0	41	510
	4/17/2024	72	2	47	490
	4/28/2024	64	<1.0	43	470
	7/12/2024	67	1.9	46	490
	7/29/2024	86	1.7	48	550
	8/14/2024	69	1.3	47	480

Notes are provided at the end of the table.

Table 6. Analytical Inorganic Chemistry Data for the Remediation System
Page 2 of 4

Well Name	Date Sampled	Concentration [a] (mg/L)			
		Chloride	Nitrate (as N)	Sulfate	TDS [b]
NMWQCC Standard		*250*	*10*	*600*	*1,000*
GW Combined Influent (cont.)	8/26/2024	79	1.6	43	520
	9/12/2024	68	1.4	39	470
	9/26/2024	96	1.2	47	520
	10/7/2024 [c]	86	0.3	46	470
	10/28/2024	76	1.5	46	460
	11/11/2024	73	1.4	39	480
	12/4/2024	71	1.4	40	460
	12/18/2024	67	1.6	42	400
	1/2/2025	62	0.9	33	390
	1/24/2025	68	1.8	41	370
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
	1/16/2024	80	2.0	43	529

Notes are provided at the end of the table.

Table 6. Analytical Inorganic Chemistry Data for the Remediation System
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Well Name	Date Sampled	Concentration [a] (mg/L)			
		Chloride	Nitrate (as N)	Sulfate	TDS [b]
NMWQCC Standard		*250*	*10*	*600*	*1,000*
GW Treated Effluent (cont.)	1/31/2024	78	1.9	42	505
	2/8/2024	85	1.7	44	508
	2/19/2024	79	<1.0	35	424
	3/5/2024	78	1.3	38	460
	3/27/2024	78	1.9	41	510
	4/17/2024	77	1.6	43	520
	4/28/2024	65	<1.0	43	460
	7/12/2024	77	1.3	45	470
	7/29/2024	88	1.6	48	480
	8/14/2024	70	1.5	48	480
	8/26/2024	83	1.5	45	470
	9/12/2024	69	1.5	40	440
	9/26/2024	84	0.4	47	440
	10/7/2024 [c]	93	0.3	50	530
	10/28/2024	74	1.7	45	460
	11/11/2024	69	1.4	43	440
	12/4/2024	74	1.3	44	470
	12/18/2024	66	1.1	37	400

Notes are provided at the end of the table.

Table 6. Analytical Inorganic Chemistry Data for the Remediation System
Page 4 of 4

Well Name	Date Sampled	Concentration [a] (mg/L)			
		Chloride	Nitrate (as N)	Sulfate	TDS [b]
NMWQCC Standard		*250*	*10*	*600*	*1,000*
GW Treated Effluent	1/2/2025	65	1.1	37	400
(cont.)	1/24/2025	73	1.2	38	380

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

[b] Analyzed using SM 2540C Mod.

[c] Data not believed to be representative of actual field conditions based on other sample results.

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
3/13/2024	31	12,780	$1,107.80	3/7/2024	30	5,712	$3,816.73
4/11/2024	29	6,328	$767.09	4/8/2024	32	0	$31.35
5/10/2024	29	4,468	$551.73	5/7/2024	29	0	$31.35
6/11/2024	32	800	$281.78	6/6/2024	30	382	$133.43
7/11/2024	30	232	$134.73	7/8/2024	32	78	$55.29
8/9/2024	29	14,224	$882.49	8/6/2024	29	12,025	$4,982.00
9/10/2024	32	14,395	$990.10	9/6/2024	31	11,164	$4,520.87
10/9/2024	29	13,544	$1,076.23	10/7/2024	29	11,036	$4,310.55
11/7/2024	29	10,247	$800.45	11/6/2024	32	6,859	$3,867.65
12/8/2024	23	9,354	$878.77	12/7/2024	31	7,188	$4,140.66
1/8/2025	31	11,318	$1,032.46	1/7/2025	31	6,685	$4,612.35
2/9/2025	32	7,644	$792.01	2/6/2025	30	4,902	$3,763.04

Notes are provided at the end of the table.

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
Daily average		368	$29.83			210	$124.94
Daily average, 1Q		705	$47.96			387	$282.41
Daily average, 2Q		406	$34.68			340	$146.12
Daily average, 3Q		284	$23.02			230	$97.65
Daily average, 4Q		362	$31.81			240	$135.26

Table 8. Fluid Level Measurements
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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 17

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
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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
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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
			3/29/2024	332.26	—	0.00	3,947.76
			8/25/2024	332.73	—	0.00	3,947.29

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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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 (cont.)	275–345	4,280.02	8/29/2024	332.37	—	0.00	3,947.65
			12/16/2024	338.08	—	0.00	3,941.94
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
			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

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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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	3/29/2024	332.03	332.01	0.02	3,946.98
			8/25/2024	332.18	—	0.00	3,946.81
			8/29/2024	331.84	—	0.00	3,947.15
			12/17/2024	329.94	—	0.00	3,949.05
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
			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

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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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	3/29/2024	332.01	—	0.00	3,948.23
			8/25/2024	333.23	—	0.00	3,947.01
			8/29/2024	332.99	—	0.00	3,947.25
			12/18/2024	333.50	—	0.00	3,946.74
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
			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
			12/14/2023	330.73	—	0.00	3,946.74
			3/29/2024	331.22	—	0.00	3,946.25

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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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	8/25/2024	331.39	—	0.00	3,946.08
			8/29/2024	331.11	—	0.00	3,946.36
			12/18/2024	No reading			
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
			3/29/2024 [f]	331.0	—	0.00	3,946.58
			3/29/2024 [f]	331.1	—	0.00	3,946.48
			8/25/2024 [f]	353.0	—	0.00	3,924.58
			8/29/2024 [f]	331.1	—	0.00	3,946.48
			12/16/2024	352.1	—	0.00	3,925.48
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
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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
			3/29/2024	331.02	—	0.00	3,946.87
			8/25/2024	330.90	—	0.00	3,946.99
			8/29/2024	330.87	—	0.00	3,947.02
			12/16/2024	331.15	—	0.00	3,946.74
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

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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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	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
			3/19/2021	328.62	—	0.00	3,949.69
			12/13/2023	331.43	—	0.00	3,946.88
			3/29/2024	331.36	—	0.00	3,946.95
			8/25/2024	331.98	—	0.00	3,946.33
			8/29/2024	331.69	—	0.00	3,946.62
			12/16/2024	332.17	—	0.00	3,946.14
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

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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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-10 (cont.)	306–346	4,275.11	12/13/2023	329.14	—	0.00	3,945.97
			3/29/2024	329.07	—	0.00	3,946.04
			8/25/2024	329.70	—	0.00	3,945.41
			8/29/2024	329.43	—	0.00	3,945.68
			12/16/2024	329.88	—	0.00	3,945.23
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
		4,273.83 [e]	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
			12/13/2023 [f]	336.1	—	0.00	3,937.73
			12/14/2023 [f]	328.5	—	0.00	3,945.33
			3/29/2024 [f,g]	328.5	—	0.00	3,945.33
			8/25/2024 [f]	No reading			
			8/29/2024 [f]				
			12/16/2024				
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

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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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-12 (cont.)	286.5–356.7	4,277.60	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
			3/29/2024 [f]	331.4	—	0.00	3,945.92
			8/25/2024 [f]	332.0	—	0.00	3,945.32
			8/29/2024 [f]	324.3	—	0.00	3,953.02
			12/17/2024	No reading			
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
			3/30/2024 [f]	329.7	—	0.00	3,945.65
			8/25/2024 [f]	330.3	—	0.00	3,945.05

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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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-13 (cont.)	287–357	4,275.35 [e]	8/29/2024 [f]	326.0	—	0.00	3,949.35
			12/17/2024	326.7	—	0.00	3,948.65
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
			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
			3/29/2024	321.86	—	0.00	3,943.39
			8/25/2024	326.47	—	0.00	3,938.78
			8/29/2024	322.13	—	0.00	3,943.12
			12/17/2024	322.62	—	0.00	3,942.63
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
			3/29/2024	326.13	—	0.00	3,942.45
			8/25/2024	323.26	—	0.00	3,945.32

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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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-15 (cont.)	282.0–352.3	4,268.58	8/29/2024	326.40	—	0.00	3,942.18
			12/16/2024	326.94	—	0.00	3,941.64
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
			3/29/2024 [f]	331.2	—	0.00	3,944.84
			8/25/2024 [f]	330.2	—	0.00	3,945.84
			8/29/2024 [f]	331.1	—	0.00	3,944.94
			12/16/2024	337.1	—	0.00	3,938.94
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
			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
			3/29/2024	332.49	—	0.00	3,944.93
			8/25/2024	332.87	—	0.00	3,944.55

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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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	8/29/2024	332.66	—	0.00	3,944.76
			12/16/2024	333.26	—	0.00	3,944.16
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
			12/13/2023 [f]	343.4	—	0.00	3,936.16
			12/14/2023 [f]	331.7	—	0.00	3,947.86
			3/29/2024 [f]	331.9	—	0.00	3,947.66
		4,279.56 [e]	8/25/2024 [f]	No reading			
			8/29/2024 [f]				
			12/16/2024				
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

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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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-2 (cont.)	289.8–360.1	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
			3/29/2024 [f]	330.7	—	0.00	3,948.27
			8/25/2024 [f]	333.4	—	0.00	3,945.57
			8/29/2024 [f]	No reading			
			12/16/2024				
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
			3/29/2024 [f]	330.9	—	0.00	3,947.63
			8/25/2024 [f]	357.7	—	0.00	3,920.83
			8/29/2024 [f]	332.2	—	0.00	3,946.33
			12/16/2024	333.4	—	0.00	3,945.13
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

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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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-4 (cont.)	291.2–361.5	4,278.84	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
			3/29/2024 [f]	331.5	—	0.00	3,946.60
			8/25/2024 [f]	332.0	—	0.00	3,946.10
			8/29/2024 [f]	331.4	—	0.00	3,946.70
			12/17/2024	336.3	—	0.00	3,941.80

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 = Top of Casing Elevation – (DTW – [LNAPL thickness x 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.

[g] Depth to water recorded while remediation system was operating.

bgs = Below ground surface
msl = Above mean sea level
btoc = Below top of casing
LNAPL = Light nonaqueous-phase liquid

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
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
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*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
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
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

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-4 (cont.)	12/14/2023 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	3/29/2024 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
	8/26/2024 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
	12/17/2024 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
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
	3/29/2024 [e]	**90**	660	88	**1,800**	2,638	<20	**13** [d]	**21**	**1,260**
	8/26/2024 [e]	**550**	180	69	**1,300**	2,099	<10	**9.2** [d]	**110**	**326**
	12/17/2024 [e]	**28**	9.1	0.73	51	89	<2.0	**0.53**	**31**	2.9
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

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-6 (cont.)	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
	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
	12/17/2024 [e]	<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

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-7 (cont.)	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]
	3/29/2024 [e]	<2.0	<2.0	<2.0	<3.0	<9.0	<2.0	**0.36** [d]	**240**	<20
	8/26/2024 [e]	<2.0	<2.0	<2.0	<3.0	<9.0	<2.0	**0.17** [d]	**190**	<20
	12/17/2024	No sample collected due to insufficient volume								
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
	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**
	3/28/2024 [f]	**5.8**	<2.0	<2.0	9.4	15.2	<2.0	**3.3** [d]	**190**	<20
	8/26/2024 [f]	<2.0	<2.0	<2.0	<3.0	<9.0	<2.0	**1.1** [d]	**120**	<20
	12/17/2024 [f]	<2.0	<2.0	<2.0	<3.0	<9.0	<2.0	<0.0095 [d]	**37**	<20
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**

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-8 (cont.)	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]
	3/29/2024 [e]	**8,000**	**12,000**	**810**	**4,600**	25,410	<50	**0.53** [d]	<20 [b]	**220**
	8/26/2024 [e]	**1,800**	**2,100**	**250**	**1,100**	5,250	<5.0	**7.3** [d]	**25**	**105**
	12/17/2024 [e]	**230**	310	53	270	863	<10	**0.29** [d]	**14**	17
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**
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

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-9 (cont.)	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
	12/17/2024 [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
	12/17/2024 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
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**

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
MW-11 (cont.)	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**
	3/28/2024	Well not sampled due to faulty pump; unable to collect with HydraSleeve								
	8/26/2024	Well not sampled due to faulty pump; unable to collect with HydraSleeve								
	12/17/2024 [f]	**3,600**	91	250	520	4,461	<10	<0.0095 [d]	**85**	**48**
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]
	3/26/2024 [f]	**44**	<10	<10	20	64	<10	**1.4** [d]	**89**	<100 [b]

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
MW-12 (cont.)	8/26/2024 [f]	**250**	<1.0	<1.0	50	300	1.5	**0.26** [d]	**77**	2.5
	12/17/2024 [f]	<5.0	<5.0	<5.0	2.2	2.2	<5.0	**0.49**	**66**	<50
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
	3/26/2024 [f]	**190**	<2.0	<2.0	33	223	<2.0	**0.064** [d]	**110**	<20
	8/25/2024 [f]	2.3	<1.0	<1.0	21	23	<1.0	**0.061** [d]	**85**	<10
	12/17/2024 [f]	<2.0	<2.0	<2.0	4.8	4.8	<2.0	<0.0095 [d]	**76**	2.1
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
	3/29/2024 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
MW-14 (cont.)	8/26/2024 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
	12/17/2024 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [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
	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
	3/29/2024 [e]	**33**	<1.0	<1.0	3.8	36.8	<1.0	**0.087** [d]	<1.0	<10
	8/26/2024	**28**	<1.0	<1.0	<1.5	28	<1.0	**0.13** [d]	1.1	<10
	12/17/2024 [e]	**15**	<1.0	<1.0	0.8	16	<1.0	**0.18**	1.4	<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

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
MW-16 (cont.)	12/12/2023 [e]	**1,500**	<1.0	<1.0	39	1,539	<1.0	**0.74** [d]	**77**	7.7
	3/26/2024 [e]	**640**	<2.0	<2.0	8.8	648.8	<2.0	**0.49** [d]	**97**	<20
	8/26/2024	Well not sampled due to faulty plumbing; unable to collect with HydraSleeve								
	12/17/2024 [f]	**440**	<10	<10	9.8	450	<10	<0.0095 [d]	**49**	<100
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
	3/29/2024 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0096 [d]	<1.0	<10
	8/26/2024	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	12/17/2024 [e]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [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
	3/27/2024 [f]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	**15**	<10

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
RW-1 (cont.)	8/26/2024	Well not sampled due to well pump and transducer issues; unable to collect with HydraSleeve								
	12/17/2024									
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]
	4/28/2024 [f]	**100**	690	130	**1,600**	2,520	<5.0	**16** [d]	**26**	**250**
	8/26/2024	Well not sampled due to well pump issues; unable to collect with HydraSleeve								
	12/17/2024									
	1/3/2025 [f,g]	**510**	320	510	**5,500**	6,840	<5.0	**19** [d]	**150**	**526**
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]

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
RW-3 (cont.)	3/26/2024 [f]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	**0.36** [d]	2.7	<10
	8/30/2024 [f]	**7.6**	1.6	<1.0	<1.5	9.2	<1.0	<0.0091 [d]	2.4	<10
	12/17/2024	Well not sampled due to well pump issues; unable to collect with HydraSleeve								
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**
	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**
	3/26/2024 [f]	**990**	960	27	560	2,537	<20	**33** [d]	**130**	<200 [b]
	8/26/2024	Well not sampled due to well pump issues; unable to collect with HydraSleeve								
	12/17/2024 [f]	**540**	**1,000**	45	**930**	2,515	<20	<0.0094 [d]	**130**	21

Notes are provided on the next page.

Table 9. Groundwater Analytical Organic Chemistry Data
Page 15 of 15

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)
Cumulative volume of LNAPL recovered by DBS&A is approximately 3.8 gallons, as tabulated below.								
BW-5								
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
RW-2								
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 x 0.75).

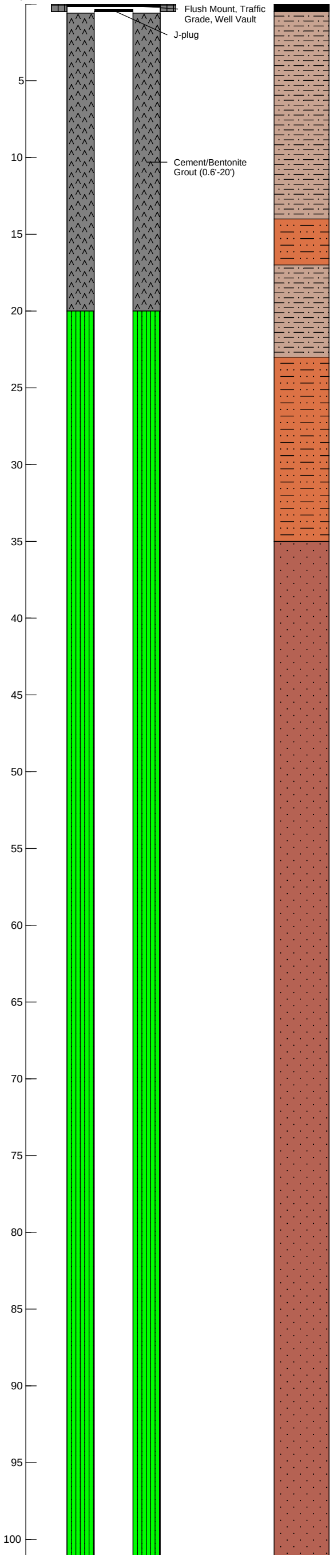
btoc = Below top of casing

Appendix A

Well Boring Logs

DBS&A
a Geo-Logic Company

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	0.5	100	0-15	NA	0-0.5	Asphalt.
				CL	0.5-14	Sandy clay - yellowish red (5YR 5/6), fine grained, well sorted, subrounded, moderate to high plasticity, medium dense, slightly moist, odorless.
				CL		Sandy clay - as above.
				CL		Sancy clay - as above with calcium carbonate.
				SC	14-17	Clayey sand - dry, otherwise as above.
	0.0	100	15-25	SC		Clayey sand - as above with less calcium carbonate.
				CL	17-23	Sandy clay - yellowish red (5YR 5/6), fine grained, well sorted, subrounded, moderate plasticity, medium dense, dry, odorless, trace calcium carbonate.
				SC	23-35	Clayey sand - increased calcium carbonate concentrations, otherwise as above.
	0.0	100	25-35	SC		Clayey sand - reddish yellow (5YR 6/6), loose to partially cemented, otherwise as above.
	0.3	100	35-45	SP	35-137	Sand - reddish yellow (5YR 6/6), fine grained, well sorted, subrounded, non-plastic, loose, dry, odorless, trace silt, calcium carbonate concretions.
	0.0	100	45-55	SP		Sand - as above.
				SP		Sand - as above with high amounts of calcium carbonate.
	1.3	100	55-65	SP		Sand - as above.
				SP		Caliche.
	0.6	100	65-75	SP		Sand - as above.
				SP		Sand - as above with lower amounts of calcium carbonate.
	0.0	100	75-85	SP		Clayey sand - reddish brown (7.5YR 6/6), fine grained, well sorted, subrounded to subangular, low plasticity, loose, dry, odorless, trace calcium carbonate.
				SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless.
	4.8	100	85-95	SP		Sand - as above.
				SP		Sand - light gray (10YR 7/2), fine grained, well sorted, subrounded, non-plastic, loose, dry, pulverized, odorless, trace silt.
				SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless.
	0.3	100	95-105	SP		Sand - as above.
				SP		Sand - light gray (10YR 7/2), fine grained, well sorted, subrounded, non-plastic, loose, dry, pulverized, odorless, trace silt.
				SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless.

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

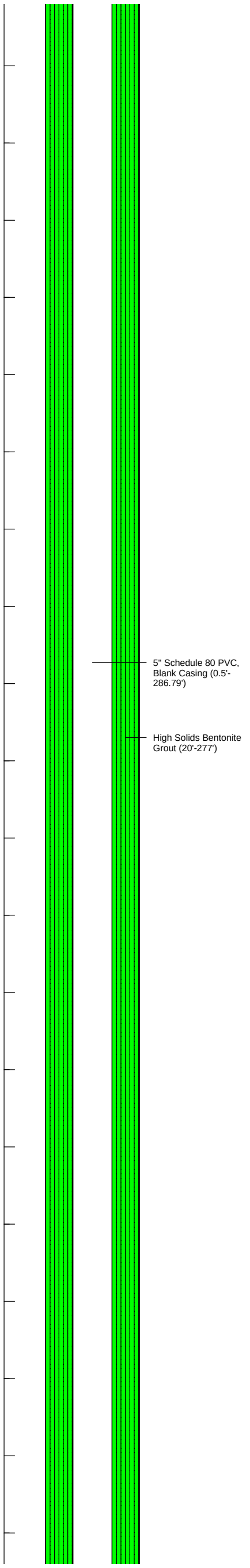
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

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

Daniel B. Stephens & Associates, Inc.
9/5/2019 JN DB18.1157.00

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
					SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless.
					SP		Sand - as above with increased calcium carbonate concentrations.
	105	0.0	100	105-115	SP		Sand - as above without calcium carbonate.
	110				SP		Sand - as above with calcium carbonate, loose to partially cemented.
					SP		Sand - as above, pinkish gray (7.5YR 7/2), calcium carbonate.
					SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless.
	115	0.0	100	115-125	SP		Sand - as above, no calcium carbonate, light reddish brown (5YR 6/4), 2" layer light grey sand layer at 117' bgs.
	120						
	125	0.0	100	125-135	SP		Sand - as above.
	130						
	135	0.2	100	135-145	SP		Sand - as above.
					SM	137-145	Silty sand - pinkish white (5YR 8/2), fine grained, well sorted, rounded, loose, dry, calcium carbonate rich, pulvurized.
	140						
	145	0.0	100	145-155	SP	145-354	Sand - reddish yellow (5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless, little to no calcium carbonate.
	150						
	155	0.0	100	155-165	SP		Sand - as above.
					SP		Sand - as above with increased calcium carbonate content.
	160						
	165	0.0	100	165-175	SP		Sand - as above with little to no calcium carbonate content.
					SP		Sand - as above mottled with light gray (10YR 7/2).
	170				SP		Sand - as above with little to no calcium carbonate content.
	175	0.0	100	175-185	SP		Sand - as above.
					SP		Sand - light gray (10YR 7/2), fine grained, well sorted, subrounded, non-plastic, loose, dry, pulverized, odorless, trace silt.
					SP		Sand - reddish yellow (5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless, little to no calcium carbonate.
					SP		Sand - light gray (10YR 7/2), fine grained, well sorted, subrounded, non-plastic, loose, dry, pulverized, odorless, trace silt.
	180				SP		Sand - reddish yellow (5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless, little to no calcium carbonate.
	185	0.0	100	185-195	SP		Sand - as above.
	190						
					SP		Sand - light gray (10YR 7/2), fine grained, well sorted, subrounded, non-plastic, loose, dry, pulverized, odorless, trace silt.
					SP		Sand - reddish yellow (5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless, little to no calcium carbonate.
	195	0.0	100	195-205	SP		Sand - as above.
	200						

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

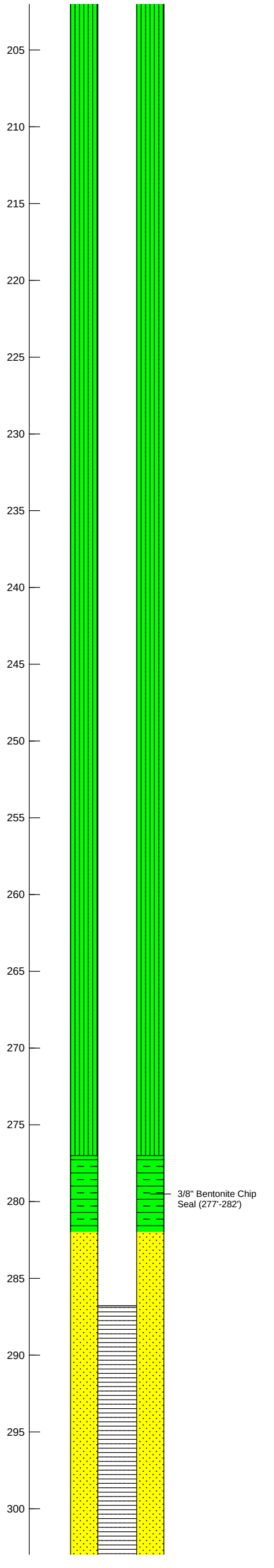
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

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

Daniel B. Stephens & Associates, Inc.
9/5/2019 JN DB18.1157.00

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	205	4.4	100	205-215	SP		Sand - as above.
	210				SP		Sand - as above, pinkish gray, calcium carbonate rich.
					SP		Sand - as above, reddish yellow (5YR 6/6), no calcium carbonate.
					SP		Sand - as above, pinkish gray, calcium carbonate rich.
					SP		Sand - as above, reddish yellow (5YR 6/6), no calcium carbonate.
	215	2.1	100	215-225	SP		Sand - as above.
	220						
	225	1.0	100	225-235	SP		Sand - as above.
	230				SP		Sand - as above.
	235	0.7	100	235-245	SP		Sand - as above with calcium carbonate.
	240						
	245	1.1	100	245-255	SP		Sand - as above with little to no calcium carbonate.
	250						
	255	0.7	100	255-265	SP		Sand - as above.
	260						
	265	6.3	100	265-275	SP		Sand - as above.
	270						
	275	4.7	100	275-285	SP		Sand - as above with increased calcium carbonate.
	280						
	285	5.3	100	285-295	SP		Sand - as above.
	290						
	295	5.8	100	295-305	SP		Sand - as above but slightly moist.
	300						

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

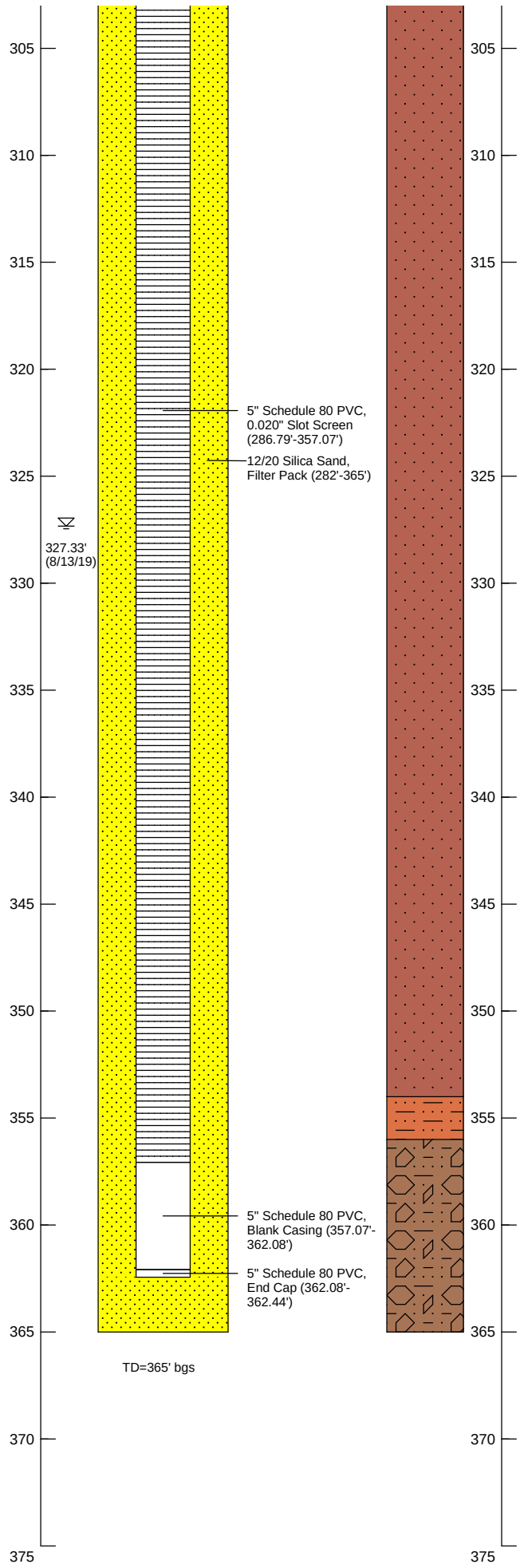
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

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

Daniel B. Stephens & Associates, Inc.
9/5/2019 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	1.7	100	305-315	SP		Sand - as above, dry.
	2.2	100	315-325	SP		Sand - as above but slightly moist and trace silt.
	15.5	100	325-335	SP		Sand - as above. Saturated at 330'.
	NA	100	335-345	SP		Sand - as above, saturated.
				SP		Sand - as above with trace low plasticity clay.
	NA	100	345-355	SP		Sand - as above.
				SP		Sand - as above, loose to partially cemented with calcium carbonate, dry.
				SC	354-356	Clayey sand - yellowish red (5YR 4/6), fine grained, well sorted, rounded, low plasticity, medium dense, slightly moist, no odor.
	NA	100	355-365	SC		Clayey sand - as above.
				SW-SC	356-356.5	Wackestone.
				SW	356.5-365	Gravelly sand with clay - light reddish brown (5YR 6/3), fine grained, poorly sorted, subrounded, fine gravels, low plasticity, loose, dry, no odor, calcium carbonate rich.

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

Daniel B. Stephens & Associates, Inc.
9/5/2019 JN DB18.1157.00

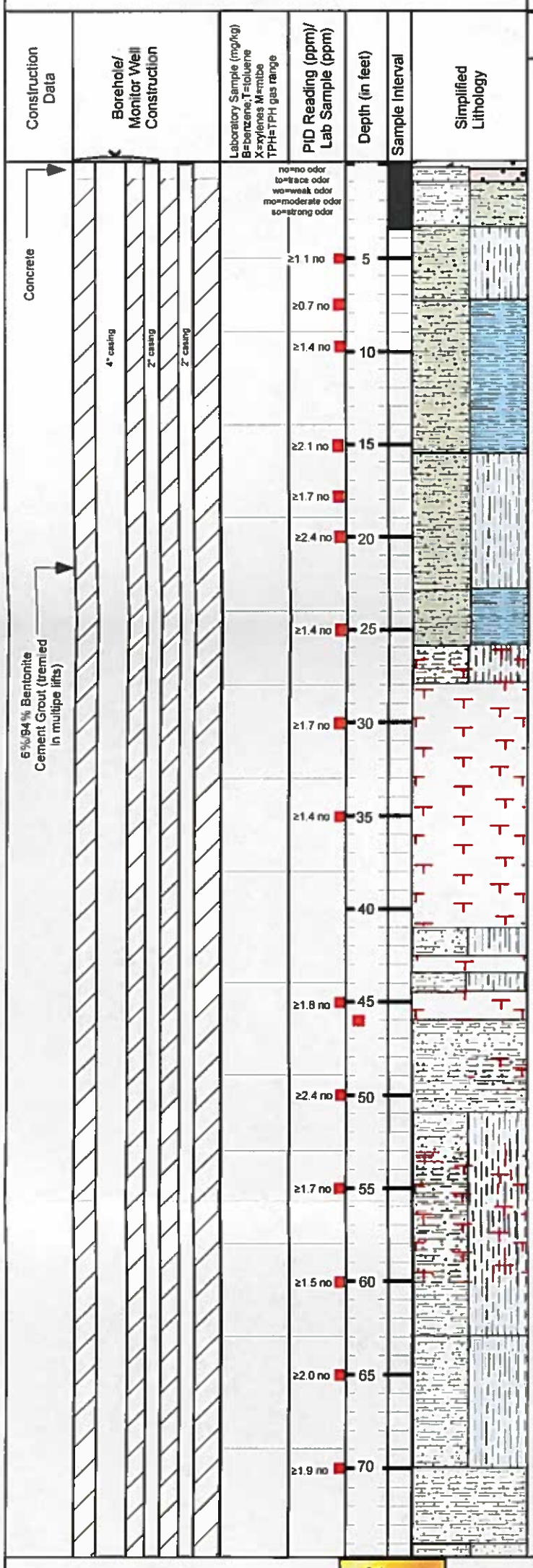
ALLSUPS #320

CLIENT: Allsups 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

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.

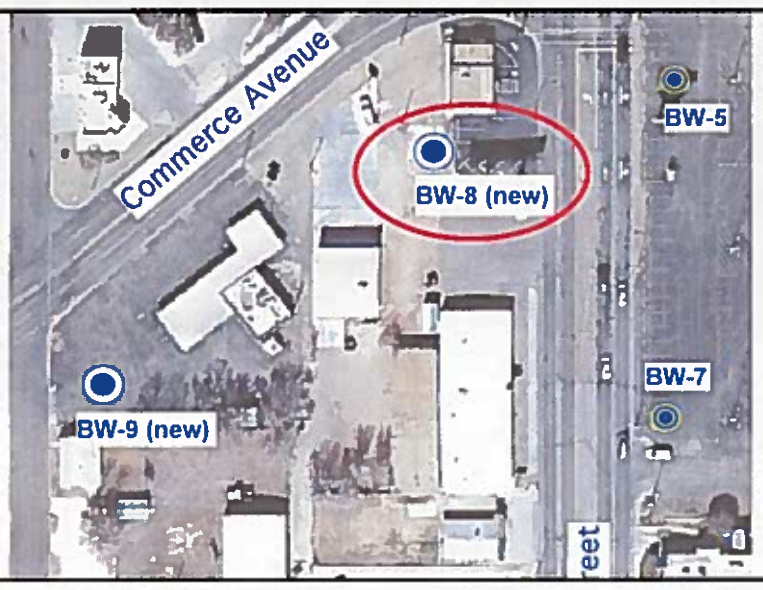
BROWN ENVIRONMENTAL, INC
P.O. BOX 886 PLACITAS, NM 87043

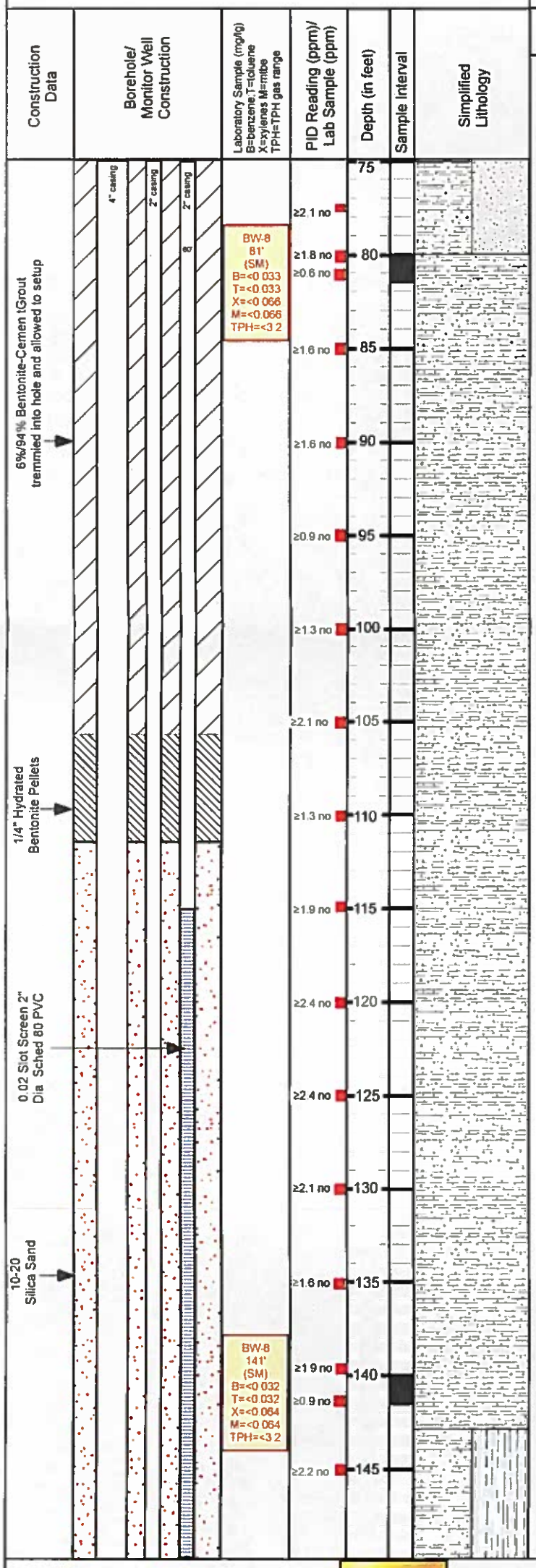
ALLSUPS #320

CLIENT: Allsups 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

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

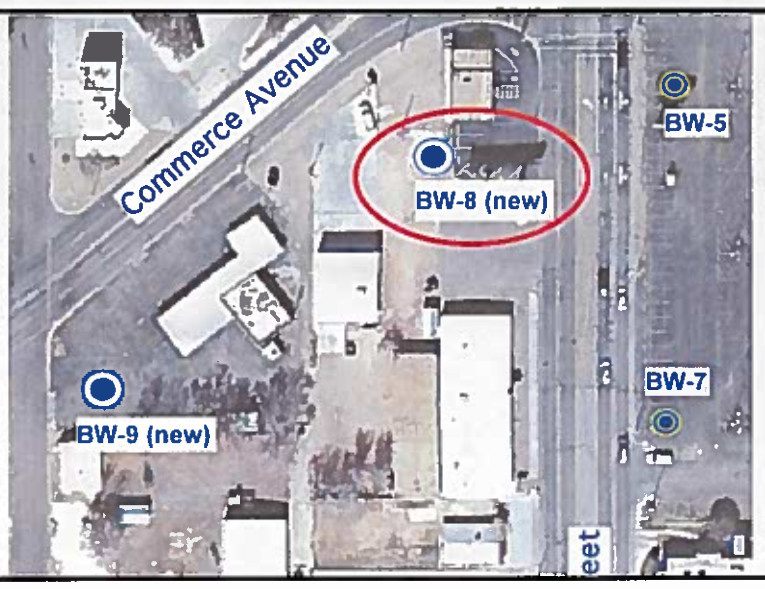
P.O. BOX 886 PLACITAS, NM 87043

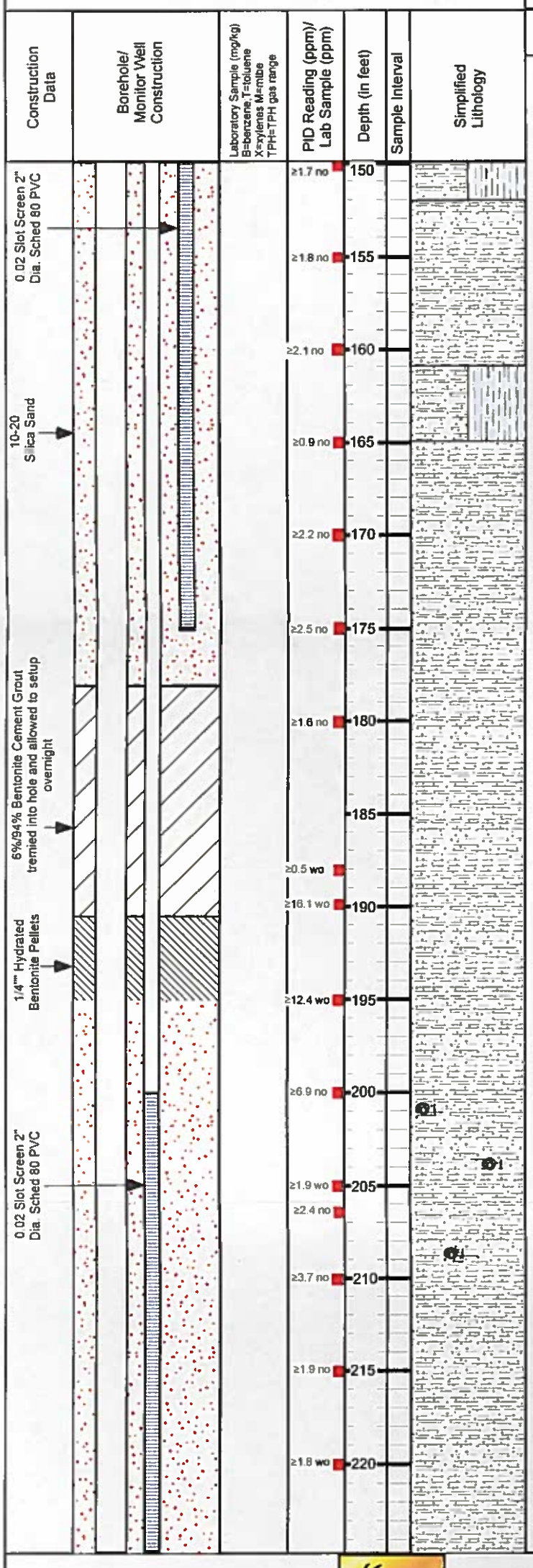
ALLSUPS #320

CLIENT: Allsups 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

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

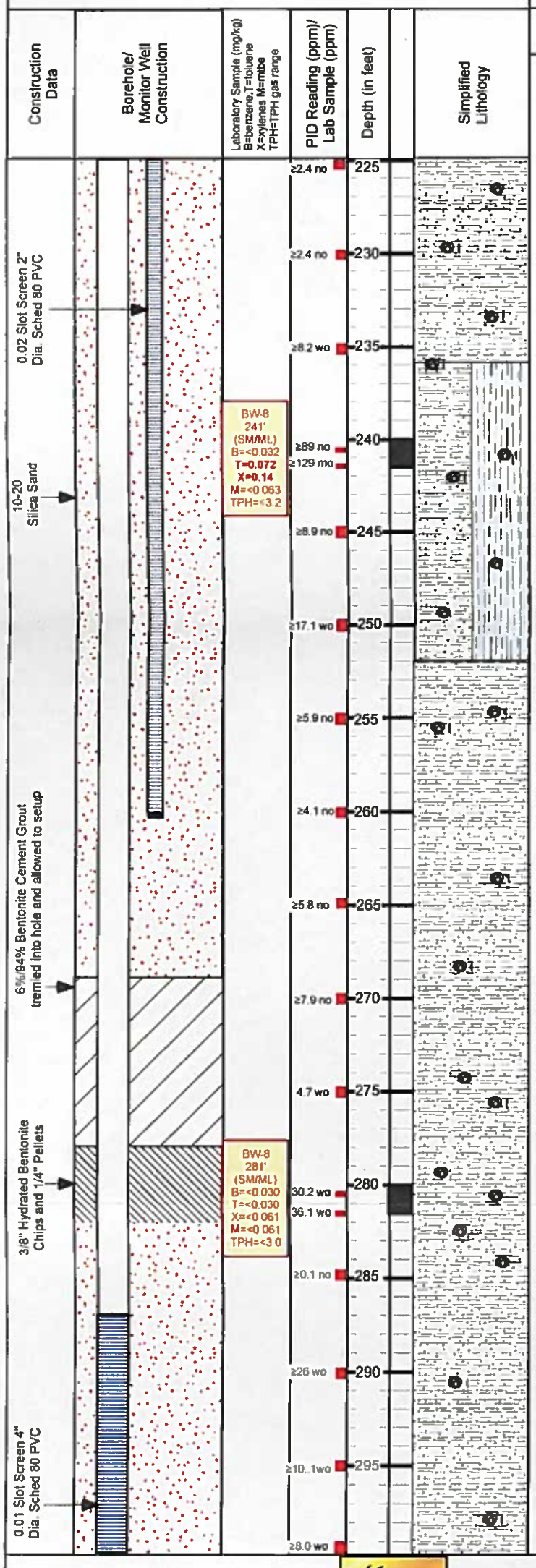
ALLSUPS #320

CLIENT: Allsups 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'
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DEEP WELL	4" Sched 80 PVC; Screen 287'-347'
SURFACE COMPLETION:	18"X18" Manway w/Concrete Pad





USCS - LITHOLOGIC DESCRIPTION

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

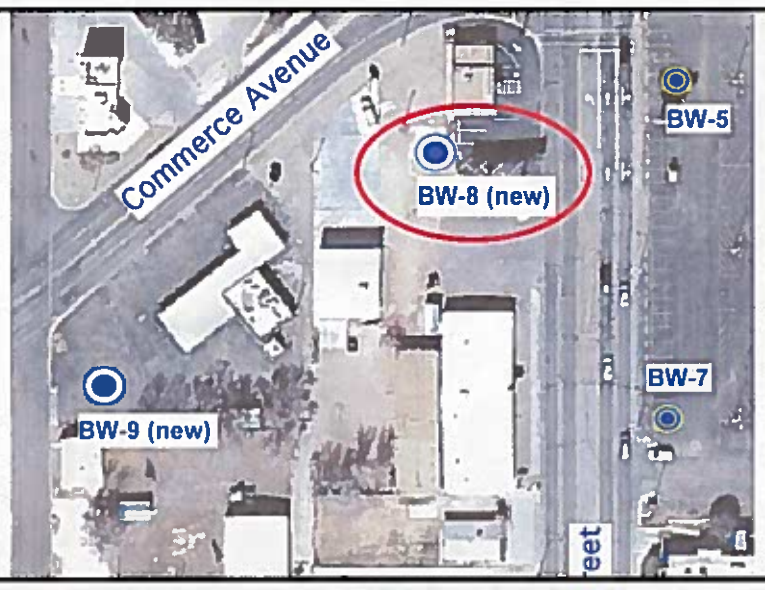
P.O. BOX 886 PLACITAS, NM 87043

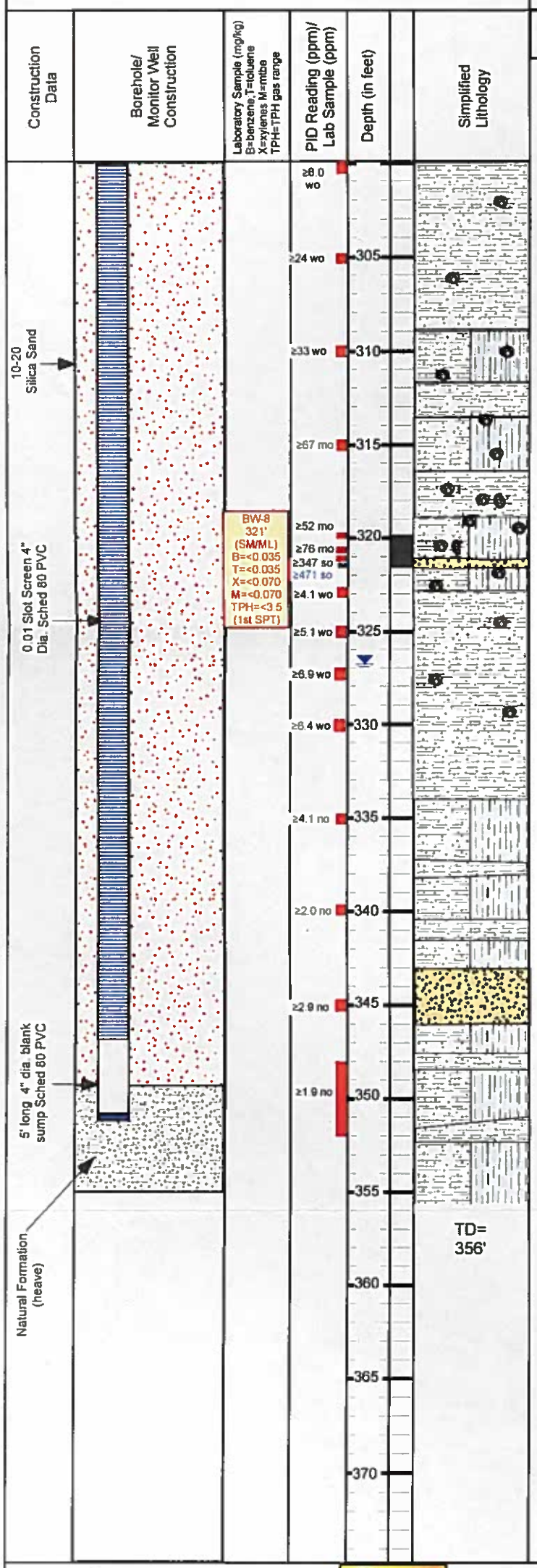
ALLSUPS #320

CLIENT: Allsups 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

309'-323' Cuttings (SM) silty fine sand with (SM/ML)silt-very fine sand intebeds, gradational contacts, (5YR) red-dish 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).

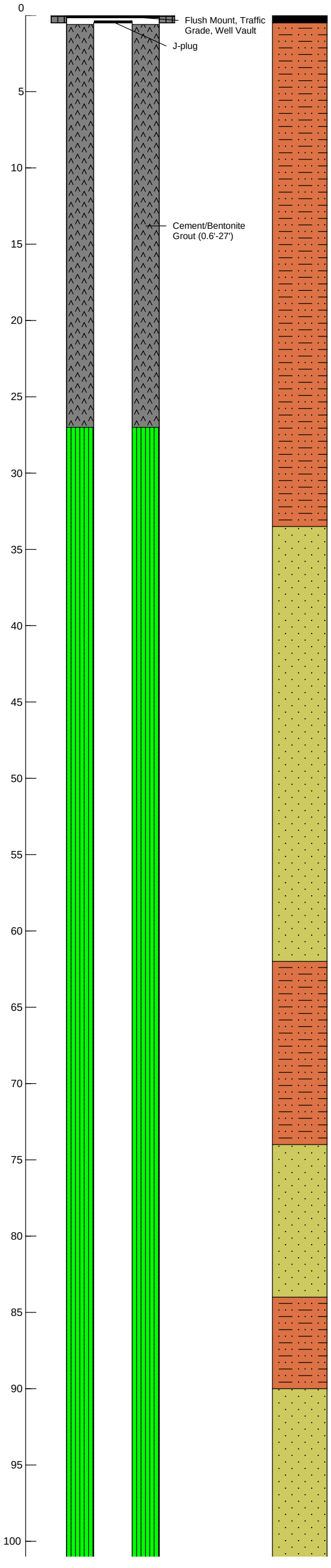
343'-346' Cuttings Very hard zone, very fine to fine grained sandstone (SAS) light tan-brown (7.5YR) calcium car-bonate cemented.

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

BROWN ENVIRONMENTAL, INC

P.O. BOX 886 PLACITAS, NM 87043

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	0-15	NA	0-0.5	Asphalt
	0.0			SC	0.5-33.5	Clayey sand - dark brown (7.5YR 3/3), fine grained, well sorted, subrounded to subangular, moderate to high plasticity, soft, slightly moist, odorless.
				SC		Clayey sand - as above.
				SC		Clayey sand - strong brown (7.5YR 5/6), fine grained, well sorted, subrounded to subangular, moderate plasticity, stiff, dry, mottled with Caliche - pink (7.5YR 8/3), fine to medium grained, moderately well sorted, rounded to subrounded, hard, moderately
	0.0			SC		Clayey sand - same as above.
		100	15-25	SC		Clayey sand - same as above.
	0.3			SC		Clayey sand - increased caliche, otherwise as above.
		100	25-35	SC		Caliche - pink (5YR 7/4), fine grained, well sorted, subangular, low plasticity, loose to somewhat consolidated, dry, odorless.
	0.0			SC		Caliche - as above.
				SP	33.5-62	Sand - yellowish red (5YR 5/8), fine grained, well sorted, rounded to subrounded, non-plastic, loose, dry, odorless.
		100	35-45	SP		Sand - caliche stringers - otherwise as above.
	0.0			SP		Sand - as above.
				SP		Sand - yellowish red (5YR 5/6), fine grained, well sorted, subrounded, non-plastic, loose, dry, calcium carbonate , odorless.
		100	45-55	SP		Sand - as above.
	0.0			SP		Sand - pink (7.5YR 7/4), fine grained, well sorted, subangular, non-plastic, loose, dry, increased calcium carbonate, odorless.
				SP		Sand - reddish yellow (5YR 6/6), fine grained, well sorted, subrounded, non-plastic, loose, dry, calcium carbonate.
		100	55-65	SP		Sand - as above.
	0.0			SP		Sand - as above.
				SC	62-74	Caliche - Sandstone - pinkish gray (7.5YR 7/2), fine grained, well sorted, subangular, calcium carbonate cemented, dry, odorless. (Very hard drilling).
		100	65-75	SC		Caliche - as above.
	0.0			SC		Caliche - as above (less difficult drilling).
				SP	74-84	Sand - pink (7.5YR 7/4), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless.
		10	75-85			No recovery.
	0.0					No recovery.
				SC	84-90	Caliche - sandstone - pinkish gray (7.5YR 7/2), fine grained, well sorted, subangular, calcium carbonate cement, dry, odorless. (very hard drilling - core pulverized).
		50	85-95			No recovery.
	1.7			SP	90-173	Sand - light brown (7.5YR 6/4), fine grained, well sorted, subangular to angular, non-plastic, loose, dry, odorless, minor calcium carbonate.
		100	95-105	SP		Sand - no calcium carbonate, otherwise as above.
	0.1			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

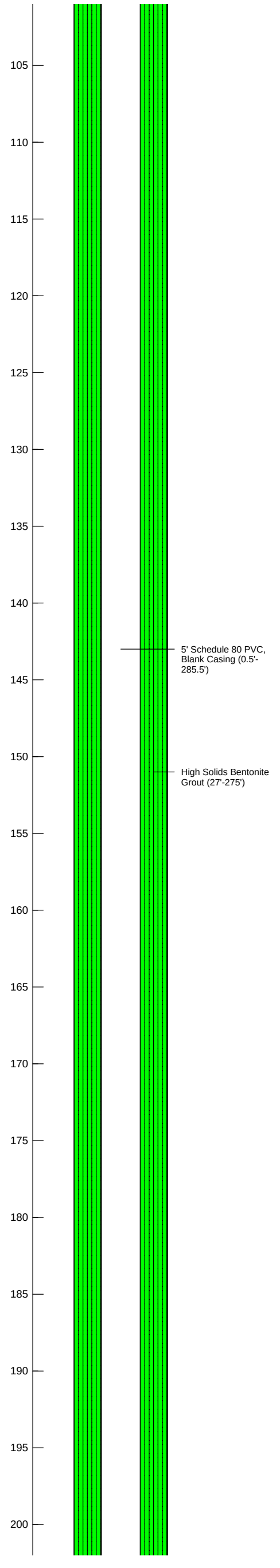
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

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

Daniel B. Stephens & Associates, Inc.
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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	105		100	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		100	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		100	125-135	SP		Sand - as above.
	130	0.4			SP		Sand - as above.
	135		100	135-145	SP		Sand - as above.
	140	1.0			SP		Sand - calcium carbonate, otherwise as above. (Driller reports hard drilling)
	145		100	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		100	155-165	SP		Sand - as above.
	160	3.3			SP		Sand - as above.
	165		100	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.
					SM	173-188.5	Silty sand - pink (7.5YR 7/4), fine grained, well sorted, subrounded, non-plastic, loose, slightly moist, odorless.
	175		100	175-185	SM		Silty sand - subrounded to angular, otherwise as above.
	180	0.5			SM		Silty sand - as above.
	185		100	185-195	SM		Silty sand - as above.
					SM		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.
					SP	188.5-360	Sand - light brown (7.5YR 6/4), fine grained, well sorted, subangular, non--plastic, loose, slightly moist, odorless.
	190	0.0			SP		Sand - as above.
	195		100	195-205	SP		Sand - as above.
	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

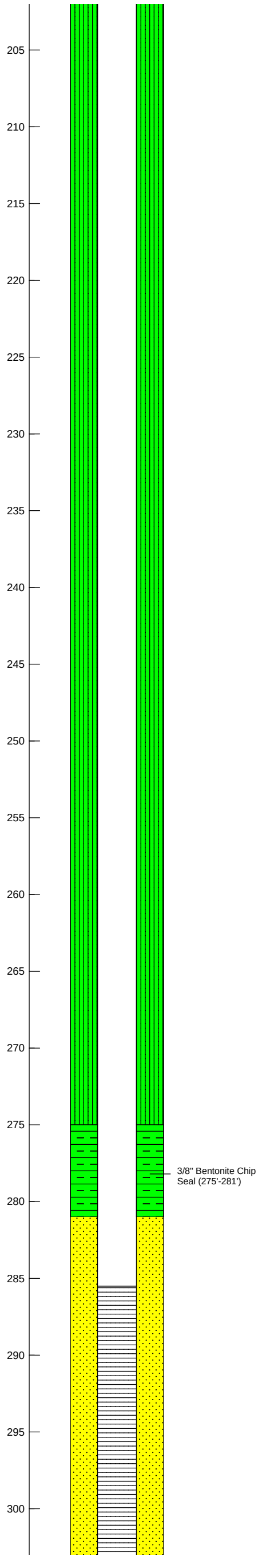
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

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

Daniel B. Stephens & Associates, Inc.
8/25/2019 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
205		100	205-215	SP		Sand - as above.
210	0.5			SP		Sand - as above.
215		100	215-225	SP		Sand - as above.
220	0.7			SP		Sand - as above.
				SP		Sand with clay - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, low plasticity, loose, lightly moist, odorless.
				SP		Sand - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, loose, slightly moist, odorless.
225		100	225-235	SP		Sand - as above.
230	1.2			SP		Sand - with CaCO3 concretions, otherwise as above.
235		100	235-245	SP		Sand - with CaCO3 concretions as above.
240	1.3			SP		Sand - with CaCO3 concretions as above.
				SP		Sand - with CaCO3 concretions - pinkish gray (5YR 7/2), fine grained, well sorted, rounded, dry, odorless.
245		100	245-255	SP		Sand with CaCO3 concretions - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, slightly moist, odorless.
				SP		Sand with clay - pinkish white (5YR 8/2), fine grained, well sorted, rounded, low plasticity, CaCO3 (caliche), dry, odorless.
				SP		Sand with CaCO3 concretions - light brown (7.5YR 6/4), fine grained, well sorted, subroundd to subangular, non-plastic, slightly moist, odorless.
250	0.1			SP		Sand with CaCO3 concretions - as above.
255		100	255-265	SP		Sand with CaCO3 concretions - as above.
260	0.0			SP		Sand - light brown (7.5YR 6/4), fine rained, well sorted, subrounded to subangular, non-plastic, loose, slghtly moist, odorless.
				SP		Sand with CaCO3 concretions - otherwise as above.
265		100	265-275	SP		Sand with CaCO3 concretions - as above.
270	0.3			SP		Sand with CaCO3 concretions - as above.
275		100	275-285	SP		Sand with CaCO3 concretions - as above.
280	1.7			SP		Sand with CaCO3 concretions - as above.
285		100	285-295	SP		Sand with CaCO3 concretions - as above.
290	0.0			SP		Sand with CaCO3 concretions - as above.
295		100	295-305	SP		Sand with CaCO3 concretions - as above.
300	0.0			SP		Sand with CaCO3 concretions - as above.

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

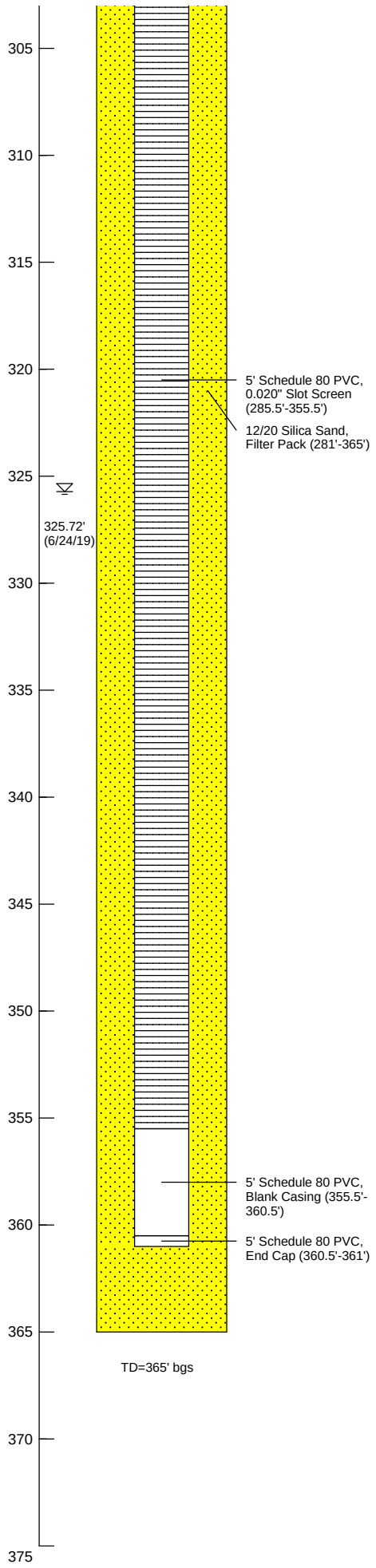
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

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

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CLOVIS, NEW MEXICO
MW-11

Daniel B. Stephens & Associates, Inc.
8/25/2019 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	305-315	SP		Sand with CaCO3 concretions - as above.
	0.3			SP		Sand with CaCO3 concretions - as above.
		100	315-325	SP		Sand with CaCO3 concretions - as above, damp to moist, no HC odor.
	3.5			SP		Sand with CaCO3 concretions - as above, moist, no HC odor.
		100	325-335	SP		Sand with CaCO3 concretions - as above, moist, no HC odor.
	257.6			SP		Sand with CaCO3 concretions - as above, wet, no HC odor.
		100	335-345	SP		Sand with CaCO3 concretions - as above, wet, no HC odor.
	5.6			SP		Sand with CaCO3 concretions - as above, wet, no HC odor.
		100	345-355	SP		Sand with CaCO3 concretions - as above, wet, no HC odor.
	3.3			SP		Sand with CaCO3 concretions - as above, wet, no HC odor.
		100	355-365	SP		Sand with CaCO3 concretions - as above, wet, no HC odor.
				SW-SC	360-365	Gravelly sand with clay and cobbles - light brown (7.5YR 6/4), fine to medium grained, moderately well sorted, loose, granitic gravels and cobbles up to 2.5", wet, no HC odor.

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

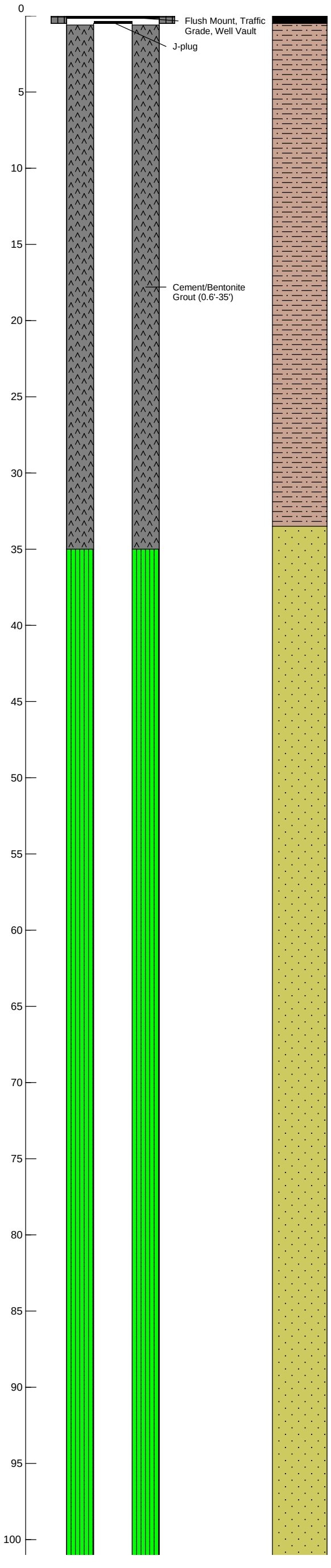
Drilling method: Sonic
Borehole diameter: 9.5"
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DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1244812.45 Elevation: 4274.64
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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	0-15	NA	0-0.5	Asphalt.
	0.0			CL	0.5-33.5	Sandy clay - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded, moderate to high plasticity, stiff, dry, odorless, calcium carbonate reaction.
				CL		Sandy clay - same as above.
	0.0	100	15-25	CL		Sandy clay - same as above.
	0.0			CL		Sandy clay - same as above.
		100	25-35	CL		Sandy clay - same as above.
	0.2			CL		Sandy clay - same as above.
				CL		Sandy clay (caliche) - pinkish white (7.5YR 8/2), fine grained, well sorted, subrounded to subangular, moderate plasticity, stiff, sry, odorless.
				SP	33.5-167	Sand - strong brown (7.5YR 5/6), fine grained,well sorted, subrounded to subangular, non-plastic, loose, dry, odorless, partially cemented with calcium carbonate.
		100	35-45	SP		Sand - as above.
	0.0			SP		Sand - as above.
		100	45-55	SP		Sand - as above.
	0.7			SP		Sand - light reddish brown (5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, odorless, calcium carbonate cement and concretions.
		100	55-65	SP		Sand - as above.
	0.1			SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded to subangular,non-plastic, loose, dry, odorless, calcium carbonate concretions.
		100	65-75	SP		Sand - as above.
	0.3			SP		Sand - as above.
		100	75-85	SP		Sand - as above.
	4.9			SP		Sand - as above.
				SP		Sand - light gray (10YR 7/2), fine grained, well sorted, subrounded to subangular, non-plastic, possibly cemented (hard drilling), pulverized, dry, odorless.
		100	85-95	SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded to subangular,non-plastic, loose, dry, odorless, calcium carbonate concretions.
	2.4			SP		Sand - as above.
		100	95-105	SP		Sand - as above.
	2.8			SP		Sand - as above.

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

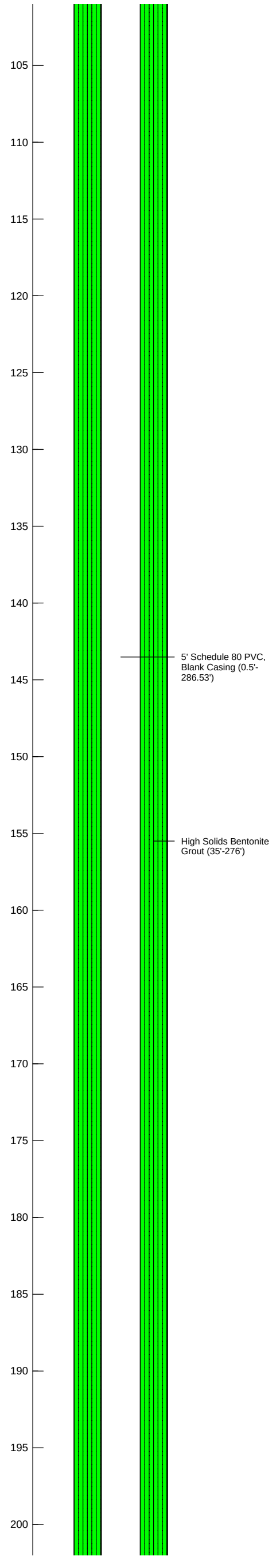
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

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

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	105		100	105-115	SP		Sand - as above.
	110	2.0			SP		Sand - as above interbedded with caliche - pinkish white (7.5YR 8/2), fine grained, well sorted, subrounded to subangular, calcium carbonate cement, dry, odorless.
	115		100	115-125	SP		Sand - as above.
	120	2.8			SP		Sand - as above.
	125		100	125-135	SP		Sand - as above.
	130	1.6			SP		Sand - as above.
	135		100	135-145	SP		Sand - as above.
	140	2.8			SP		Sand - as above.
	145		100	145-155	SP		Sand - as above.
	150	0.4			SP		Sand - as above.
	155		100	155-165	SP		Sand - as above.
	160	6.6			SP		Sand - as above.
	165		100	165-175	SP		Sand - as above.
					SP-SC	167-175	Sand with clay - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, low plasticity, loose, dry, odorless.
	170	1.8			SP-SC		Sand with clay - as above.
	175		100	175-185	SP	175-355	Sand - yellowish red (7.5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, calcium carbonate concentrations, dry, odorless.
	180	1.6			SP		Sand - as above.
	185		100	185-195	SP		Sand - as above.
	190	2.6			SP		Sand - as above.
	195		100	195-205	SP		Sand - as above.
	200	3.5			SP		Sand - as above.

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

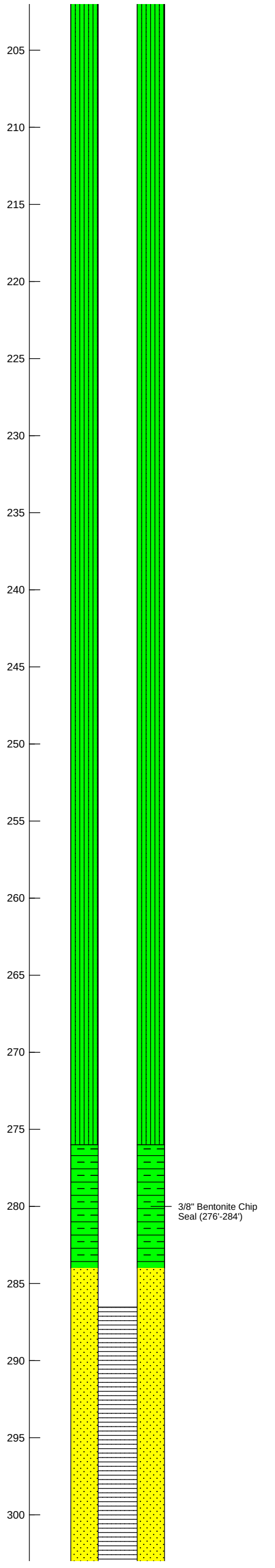
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

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

Daniel B. Stephens & Associates, Inc.
9/5/2019 JN DB18.1157.00

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	205		100	205-215	SP		Sand - as above.
	210	1.3			SP		Sand - as above.
	215		100	215-225	SP		Sand - no calcium carbonate concretions, otherwise as above.
	220	1.1			SP		Sand - as above.
	225		100	225-235	SP		Sand - as above.
	230	0.4			SP		Sand - as above.
	235		100	235-245	SP		Sand - as above.
	240	0.3			SP		Sand - as above.
	245		100	245-255	SP		Sand - as above.
	250	2.1			SP		Sand - as above.
	255		100	255-265	SP		Sand - as above.
	260	6.6			SP		Sand - as above.
	265		100	265-275	SP		Sand - as above.
	270	1.0			SP		Sand - as above.
	275		100	275-285	SP		Sand - as above.
	280	0.4			SP		Sand - as above.
	285		100	285-295	SP		Sand - solvent odor - otherwise as above.
	290	0.2			SP		Sand - as above, solvent odor.
	295		100	295-305	SP		Sand - as above.
	300	2.4			SP		Sand - as above.

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

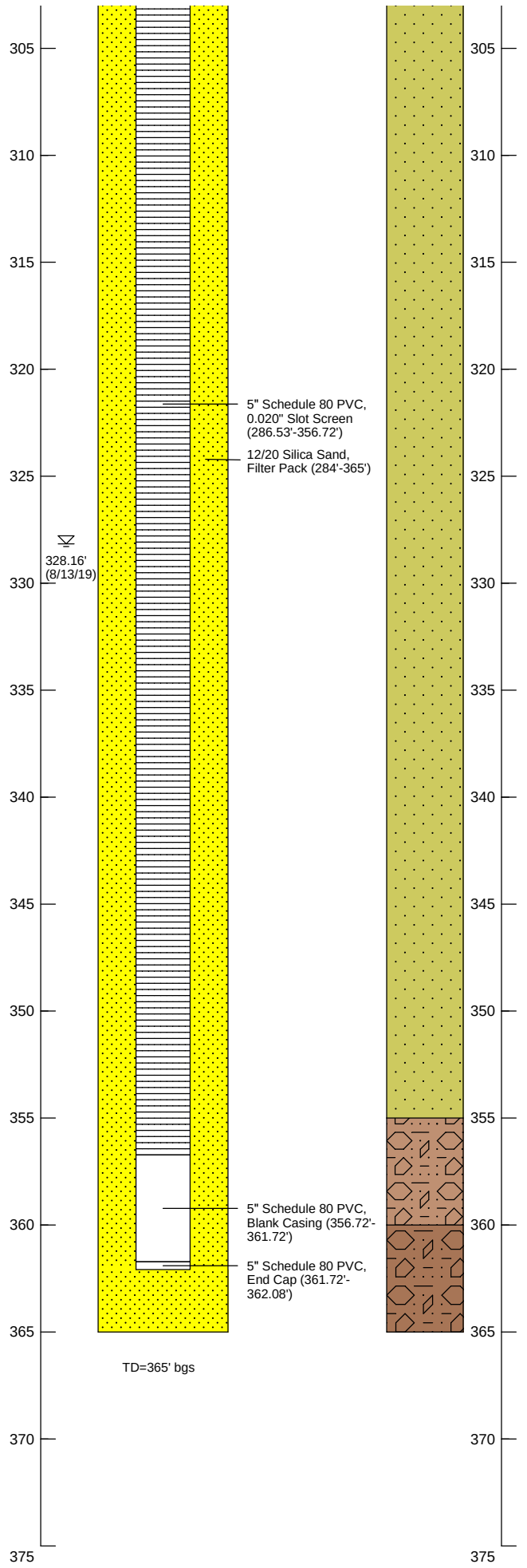
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

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

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	305-315	SP		Sand - as above.
	20.6			SP		Sand - as above.
		100	315-325	SP		Sand - as above.
	12.6			SP		Sand - as above with slight HC odor.
	3.5	100	325-335	SP		Sand - as above.
				SP		Sand - as above but moist and yellowish red (5YR 5/6).
	NA	100	335-345	SP		Sand - as above but wet.
				SP		Sand - as above.
		100	345-355	SP		Sand - as above.
				SP		Sand - as above with trace low plasticity clay.
		100	355-365	SW	355-360	Gravelly sand - reddish brown (5YR 5/4), fine grained, fine gravels, well graded, subrounded, low plasticity (trace clay), medium dense, wet, odorless. Increasing gravel and clay content down section.
				SW-SC	360-365	Wackestone - (calcium carbonate cemented gravels and sand), very pale brown (10YR 7/3), fine grained sand, fine gravels to cobbles, well graded, subrounded, dry, odorless.

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

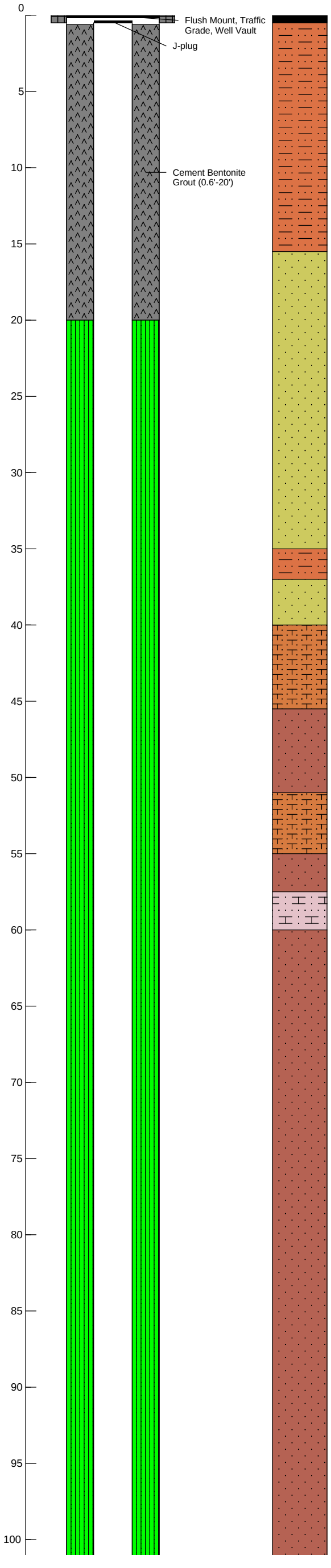
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

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

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	0-15	NA	0-0.5	Asphalt.
					0.5-15.5	
	11.2			SC		Clayey sand - yellowish red (5YR 5/6), fine grained, well sorted, subrounded, low plasticity, loose to medium dense, slightly moist, no odor, calcium carbonate rich.
				SC		Clayey sand - light brown (7.5YR 6/4), less clay content, dry, otherwise as above.
	13.1	100	15-25	SC		Clayey sand - as above.
				SP	15.5-35	Sand - yellowish red (5YR 5/8), fine grained, well sorted, subrounded, non-plastic, loose to partially cemented with cacium carbonate, dry, no odor.
				SP		Sand - pink (5YR 7/3), increased calcium carbonate, otherwise as above.
				SP		Sand - yellowish red (5YR 5/8), trace silt, otherwise as above.
	19.2	100	25-30	SP		Sand - less calcium carbonate, loose, otherwise as above.
				SP		Sand - pink (5YR 7/3), calcium carbonate rich, partially cemented, otherwise as above.
		100	30-35	SP		Sand - as above.
	18.1	100	35-45	SC	35-37	Clayey sand - yellowish red (5YR 5/6), fine grained, well sorted, subrounded, low plasticity, loose, dry, no odor.
				SP	37-40	Sand - yellowish red (5YR 5/6), very fine to fine grained, well sorted, subrounded, non-plastic, loose to partially cemented, calcium carbonate rich, dry, no odor.
				SM	40-45.5	Silty sand - little calcium carbonate and silty, loose, otherwise as above.
	11.1	100	45-55	SM		Silty sand - as above.
				SP	45.5-51	Sand - yellowish red (5YR 5/6), fine, well sorted, subrounded, non-plastic, loose, dry, no odor.
				SM	51-55	Silty sand - light brown (7.5YR 6/4), very fine, well sorted, subrounded, non-plastic, loose, dry, no odor, claicum carbonate rich.
				SM		Silty sand - little calcium carbonate, otherwise as above.
	20.7	100	55-60	SP	55-57.5	Sand - light brown (75.YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, no odor, calcium carbonate nodules..
				NA	57.5-60	Caliche.
		100	60-65	SP	60-345	Sand - pinkish gray (5YR 7/2), fine grained, well sorted, subrounded to subangular, non-plastic, loose to partially cemented, calcium carbonate rich, dry, no odor.
	30.5	100	65-75	SP		Sand - as above.
				SP		Sand - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, loose to partially cemented, calcium carbaonate rich, dry, no odor.
				SP		Sand - reddish yellow (7.5 YR 6/6), trace silt, little calcium carbonate, otherwise as above.
	20.1	100	75-85	SP		Sand - as above.
	12.1	100	85-95	SP		Sand - no calcium carbonate, no trace silt, otherwise as above.
	0.4	100	95-105	SP		Sand - as above.

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

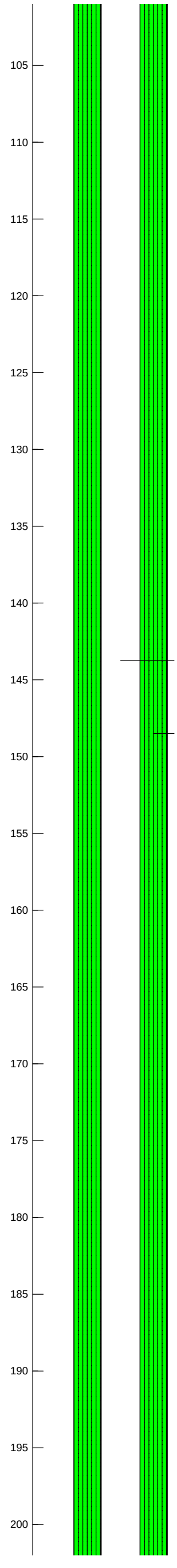
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

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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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	19.6	100	105-115	SP		Sand - claiche stringers from 106'-108', otherwise as above.
	6.1	100	115-125	SP		Sand - as above.
	14.1	100	125-135	SP		Sand - as above.
	8.7	100	135-145	SP		Sand - as above.
	12.1	100	145-155	SP		Sand - as above.
	4.7	100	155-165	SP		Sand - as above.
	4.1	100	165-175	SP		Sand - as above.
	6.7	100	175-185	SP		Sand - as above.
	4.1	100	185-195	SP		Sand - calcium carbonate cemented at 186', calcium carbonate cemented gravels and cobbles up to 3" at 189', otherwise as above.
	3.3	100	195-205	SP		Sand - as above.

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

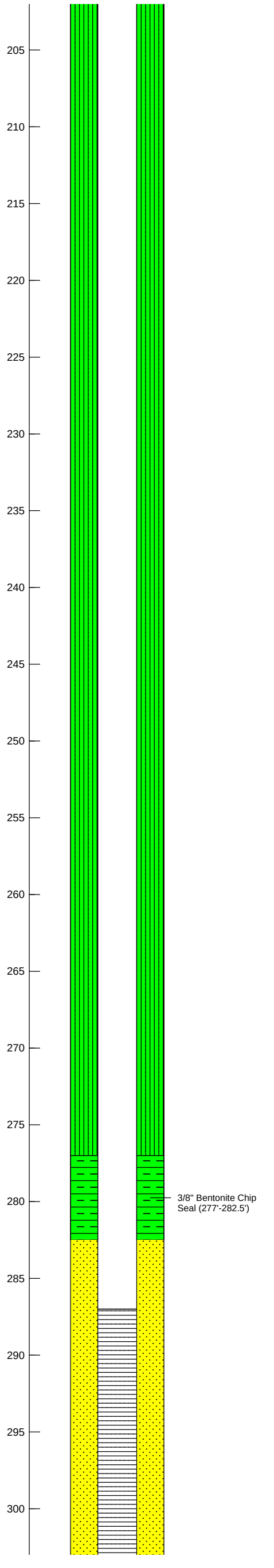
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

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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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	4.2	100	205-215	SP		Sand - as above.
	3.4	100	215-225	SP		Sand - as above.
	1.9	100	225-235	SP		Sand - cemented cobbles at 230'-235', otherwise as above.
	1.6	100	235-245	SP		Sand - as above.
	3.3	100	245-255	SP		Sand - with cemented cobbles and gravels at 245' and 250', otherwise as above.
	1.1	100	255-265	SP		Sand - as above.
	5	100	265-275	SP		Sand - cemented gravels and cobbles up to 3", otherwise as above.
	5.9	100	275-285	SP		Sand with cemented gravels and cobbles as above.
	1.1	100	285-295	SP		Sand - as above.
	1.5	100	295-305	SP		Sand - red (2.5YR 5/8), fine to medium grained, with calcarius cementations, some well cemented cobbles present, non-plastic, no odor, dry.

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

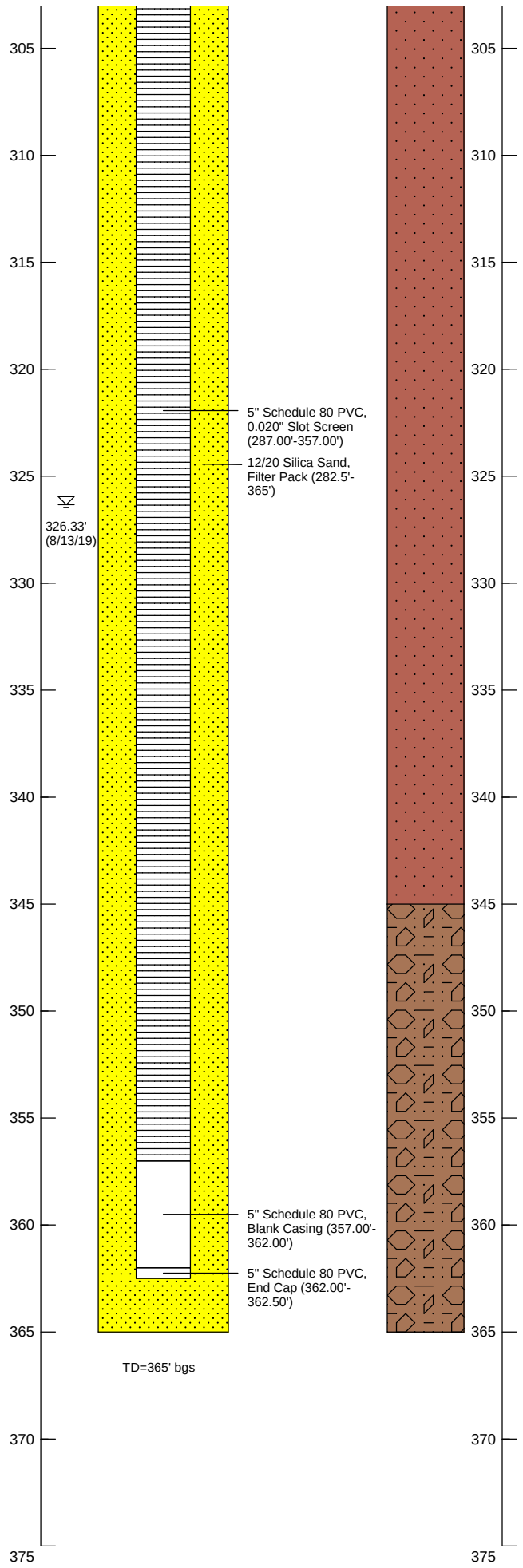
Drilling method: Sonic
Borehole diameter: 9.5"
Sampling method: Sonic core

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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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	9.7	100	305-315	SP		Sand - moist, increasing indurated sandstone, fine to medium grained, quartz, subrounded to rounded.
	19.2	100	315-325	SP		Sand - reddish brown (2.5YR 4/4), fine to medium grained, quartz sand, rounded, trace silt, poorly compacted, weakly plastic, wet, no odor.
	3.5	100	325-335	SP		Sand - yellowish red (5YR 5/6), fine to medium grained, well sorted, rounded, wet, no odor.
	2	100	335-345	SP		Sand - as above.
	NA	100	345-355	SC	345-365	Clayey sand - reddish brown (5YR 5/4), fine grained, well sorted, rounded, minor clay, wet, moderately plastic, no odor.
	NA	100	355-365	SC		Clayey sand with gravel and cobbles - fine to coarse, subrounded, firm, slightly plastic, fine gravels to small cobbles, wet, no odor.

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
Northing: 1244960.74 Elevation: 4275.82
Easting: 884269.96

FORMER Y STATION
CLOVIS, NEW MEXICO
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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	0-10	NA	0-0.5	Asphalt.
	0.0			SC	0.5-30	Clayey sand - reddish yellow (5YR7/6), fine grained, poorly sorted, subrounded to subangular, moderate plasticity, soft, moist, no odor
	0.0	100	10-20	SC		Clayey sand - as above
	0.0	100	20-30	SC		Clayey sand - as above
	0.0	100	30-40	SP	30-60	Sand - reddish yellow (5YR5/6), fine grained, well sorted, subrounded to subangular, well cemented, trace silt and clay, dry, no odor
	0.0	100	40-50	SP		Sand - as above
	0.0	100	50-60	SP		Sand - as above
	1.9	100	60-70	SW	60-70	Sand - light reddish brown (5YR6/4), fine to coarse grained, poorly sorted, subrounded to subangular, partially cemented, trace silt, dry, no odor
	1.3	100	70-80	SP	70-350	Sand - pink (5YR7/3), fine to medium grained, well sorted, subrounded to subangular, partially cemented, increased CaCO3, dry, no odor
	0.8	100	80-90	SP		Sand - as above, light reddish brown (5YR6/4)
	1.6	100	90-100	SP		Sand - pink (7.5YR7/4), fine grained, well sorted, subrounded to subangular, loose, little to no CaCO3, dry, no odor
	1.4	100	100-110	SP		Sand - as above
	2.1	100	110-120	SP		Sand - as above, some medium grained sand
	0.7	100	120-130	SP		Sand - light brown (7.5YR6/4), very fine, well sorted, subrounded, loose, trace silt, dry, no odor
	0.7	100	130-140	SP		Sand - as above, fine grained, decreased silt

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

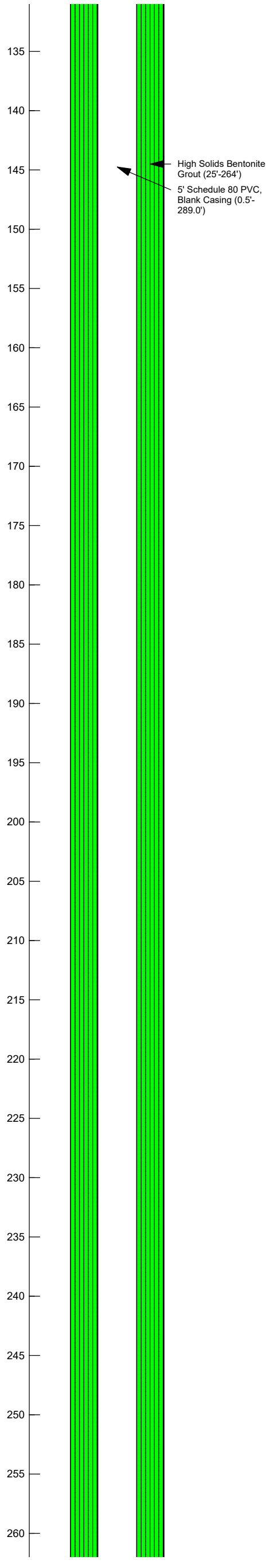
Drilling method: ARCH
Borehole diameter: 8.5"
Sampling method: Cuttings

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

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5/17/2021 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	1.4	100	140-150	SP		Sand - as above, increased silt
	1.8	100	150-160	SP		Sand - as above, decreased silt
	1.4	100	160-170	SP		Sand - as above
	2.7	100	170-180	SP		Sand - as above, increased silt
	2.4	100	180-190	SP		Sand - as above
	2.0	100	190-200	SP		Sand - as above
	2.9	100	200-210	SP		Sand - as above
	1.7	100	210-220	SP		Sand - as above
	2.3	100	220-230	SP		Sand - as above
	1.1	100	230-240	SP		Sand - as above
	0.9	100	240-250	SP		Sand - as above
	1.3	100	250-260	SP		Sand - as above
	0.0	100	260-270	SP		Sand - as above, pink (7.5YR7/4), increased silt, trace CaCO3

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

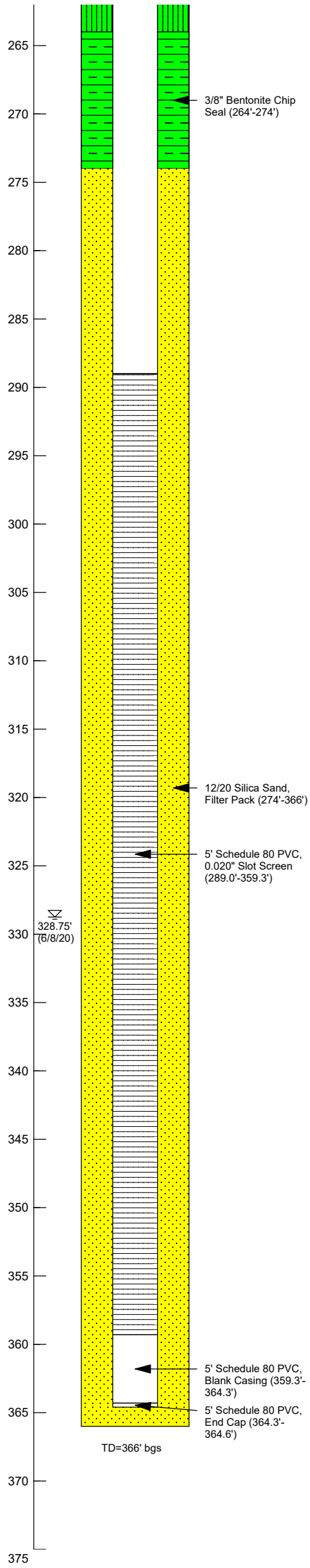
Drilling method: ARCH
Borehole diameter: 8.5"
Sampling method: Cuttings

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

Daniel B. Stephens & Associates, Inc.
5/17/2021 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	2.2	100	270-280	SP		Sand - as above, no CaCO3
	5.1	100	280-290	SP		Sand - as above
	1.6	100	290-300	SP		Sand - as above, reddish yellow (7.5YR6/6), trace CaCO3
	0.6	100	300-310	SP		Sand - as above
	1.1	100	310-320	SP		Sand - as above
	0.4	100	320-330	SP		Sand - as above, moist
	1.8	100	330-340	SP		Sand - as above, very moist, no CaCO3
	NA	100	340-350	SP		Sand - as above, wet, trace gravel
	NA	100	350-360	SM	350-360	Silty sand with gravel - reddish yellow (7.5YR6/6), fine to medium grained, poorly sorted, subrounded, gravels of CaCO3 cemented sand, trace clay,saturated, no odor
	NA	100	360-366	GW	360-366	Sandy gravel - light brown (7.5YR6/4), gravels up to 2.5", subrounded, fine sand, silt, poorly sorted, saturated, no odor

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

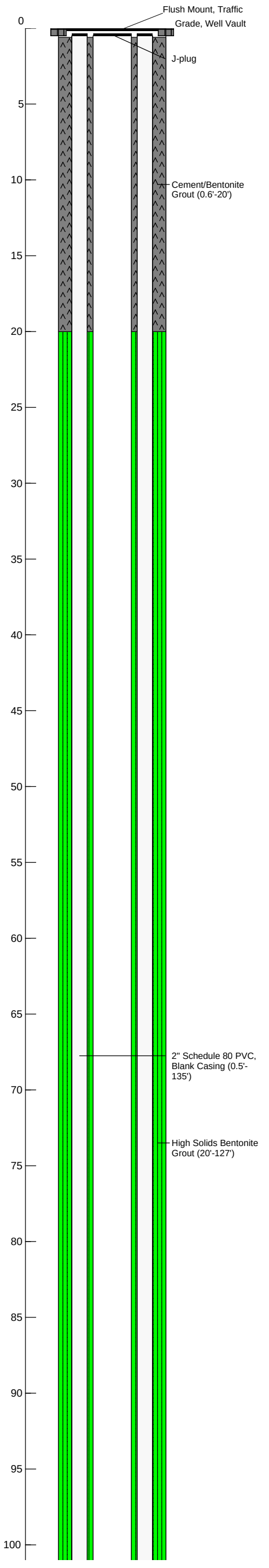
Drilling method: ARCH
Borehole diameter: 8.5"
Sampling method: Cuttings

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

Daniel B. Stephens & Associates, Inc.
5/17/2021 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	9.6			NA	0-1	Landscaping rocks and soil/plants
				SP	1-5	Sand - light brown (5YR 7/4), well graded, loose, dry to moist, subrounded, very fine, trace silt, no odor, some caliche nodules.
		100	5-15	SC	5-15	Clayey sand - (7.5YR 6/3), fine sand, subrounded, low plasticity, claiche nodules, and stringers (10%), dry, loose-medium dense, no odor.
	2.8					
				SC		Clayey sand - as above but loose, (7.5YR 8/4).
		100	15-25	CL	15-19.5	Sandy clay - yellowish red (5YR 5/8), trace silt, low to medium plasticity, moist, fine sand, caliche nodules.
				CL		Sandy clay - as above.
				SC	19.5-20	Sand - calcium carbonate cemented, light gray (5YR 7/4).
	0.3			SC	20-25	Clayey sand - (5YR 5/8), well sorted, low to medium plasticity, slightly moist, fine, subrounded, loose, caliche nodules (<10%), no odor.
		100	25-35	SP	25-45	Sand - yellowish red (5YR 5/8), very fine, subrounded, loose, dry, no odor, low caliche content, well sorted.
	3.0			SP		Sand - as above but calcium carbonate cemented, medium dense.
				SP		Sand - as above with <15% caliche, loose (see 25'-30').
		100	35-45	SP		Sand - (7.5YR 9/2), well sorted, very fine, subrounded, partially cemented, dry, no odor.
	0.0					
				SP		Sand - (5YR 5/8), well sorted, very fine to fine, subrounded, loose to partially cemented, slightly moist, no odor.
		100	45-55	SC	45-45.75	Clayey sand - (5YR 5/6), fine, subrounded, low plasticity, moist, no odor.
				SP	45.75-114	Sand - (5YR 5/6), well sorted, fine, subrounded, loose, dry, no odor, CaCO3.
	7.6					
		100	55-63	SP		Sand - pink (7.5YR 7/4), fine, well sorted, subangular, loose to partially cemented (CaCO3), dry, odorless.
				SP		Sand - reddish yellow (5YR 6/6), fine, well sorted, subrounded, loose, odorless, dry, calcium carbonate (10%).
				SP		Sand - see 55'. Hard drilling.
	0.0					
		100	63-73	SP		Sand (5YR 8/4), fine, well sorted, subrounded, loose to partially cemented (fragments up to 2"), dry, no odor, trace silt. Very hard caliche layer at 68' bgs.
	6.6					
		100	73-85	SP		Sand - (7.5YR 8/4), fine to medium, well sorted, loose, litle to no caliche, subrounded to subangular, dry, slight HC odor, some mottling of green and gray staining.
	0.5					
		100	85-95	SP		Sand - light brown (7.5YR 6/4), fine grained, well sorted, loose, subrounded to subangular, dry, HC odor (possibly diesel).
	0.4			SP		Sand - as above.
				SP		Sand - white (10YR 8/1), caliche cement, otherwise as above.
		100	95-105	SP		Sand - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, slightly moist, HC odor.
	0.5			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

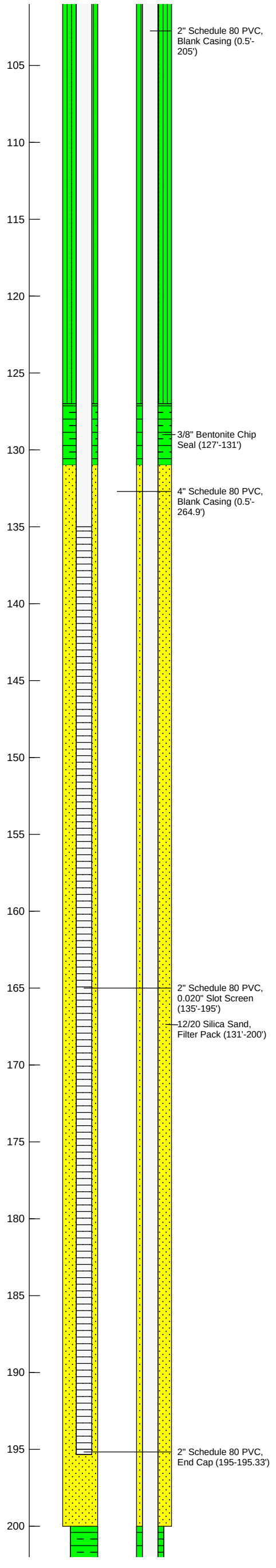
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

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

Daniel B. Stephens & Associates, Inc.
5/17/2021 JN DB18.1157.00

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	105		100	105-115	SP		Sand - as above.
	110	1.3			SP		Sand - as above.
	115				NA	114-115	Caliche - pinkish white (7.5YR 8/2), fine grained, well sorted, subrounded, calcium carbonate cemented, dry, odorless.
			100	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		100	125-135	SP		Sand - as above.
	130	4.1			SP		Sand - as above.
	135		100	135-145	SP		Sand - as above.
	140	22.7			SP		Sand - as above.
	145		100	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		100	155-165	SP		Sand - as above.
	160	2.8			SP		Sand - with calcium carbonate concretions, otherwise as above.
	165		100	165-175	SP		Sand - as above.
	170	17.3			SP		Sand - as above.
					SP		Sand - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, loose, slightly moist, HC odor.
	175		100	175-185	SP		Sand - as above.
	180	14.5			SP		Sand - as above.
	185		100	185-195	SP		Sand - as above.
	190	6.1			SP		Sand - as above.
	195		100	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

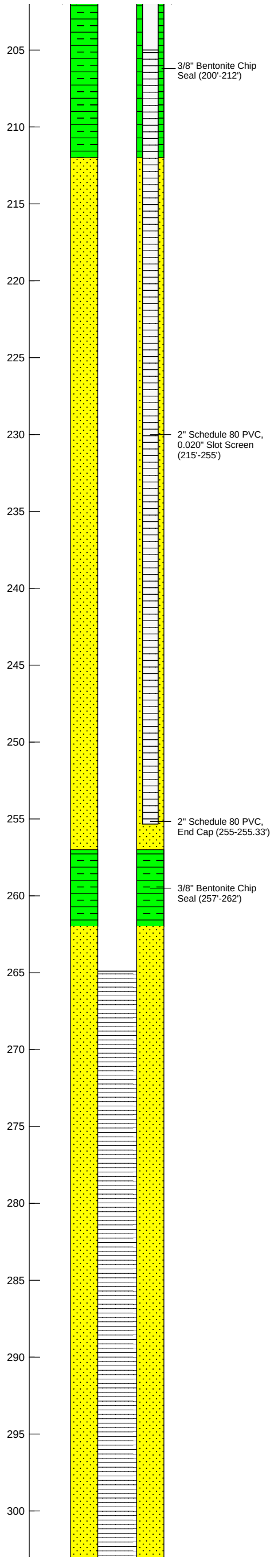
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

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

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	205		100	205-215	SP		Sand - as above.
	210	16.9			SP		Sand - as above.
	215		100	215-225	SP		Sand - as above.
	220	53.4			SP		Sand - with calcium carbonate concretions, otherwise as above.
	225		100	225-235	SP		Sand - as above.
	230	17.4			SP		Sand - as above.
	235		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.
					SP		Sand with minor clay - as above.
	245		100	245-255	SP		Sand with minor clay - as above.
	250	26.8			SP		Sand with minor clay - as above.
	255		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		50	265-273	SP		Sand with calcium carbonate concretions - as above.
	270				NA		No recovery.
		32.2	100	273-280	SP		Sand with calcium carbonate concretions - as above.
	275						
	280	21.1	100	280-285	SP		Sand with calcium carbonate concretions - as above.
					SP	281-282	Sandstone - pinkish gray (7.5YR 7/2), fine grained, well sorted, subrounded to subangular, calcium carbonate cement, dry, odorless.
					SP	282-348	Sand with calcium carbonate concretions and stringers - light brown (7.5YR 6/4), fine grained, well sorted, surounded to subangular, non-plastic, loose, slightly moist, slight HC odor.
	285		100	285-295	SP		Sand - staining brown (7.5YR 5/3), otherwise as above.
	290				SP		Sand - continued staining and HC odor, as above.
	295	>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

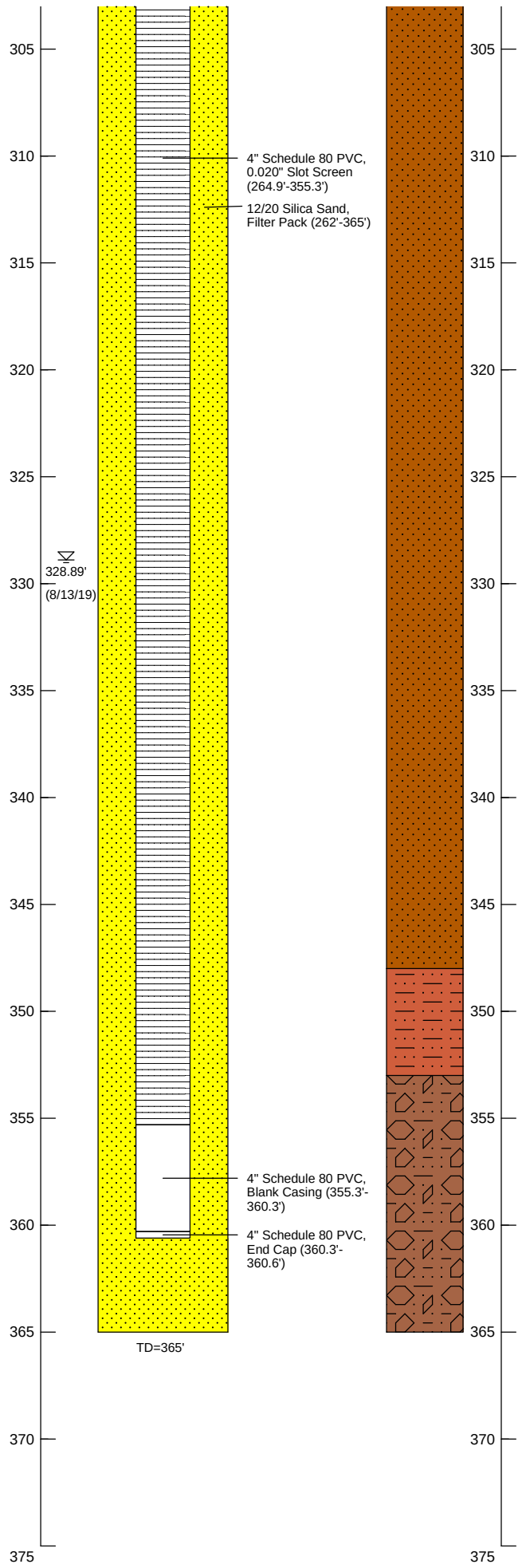
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

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

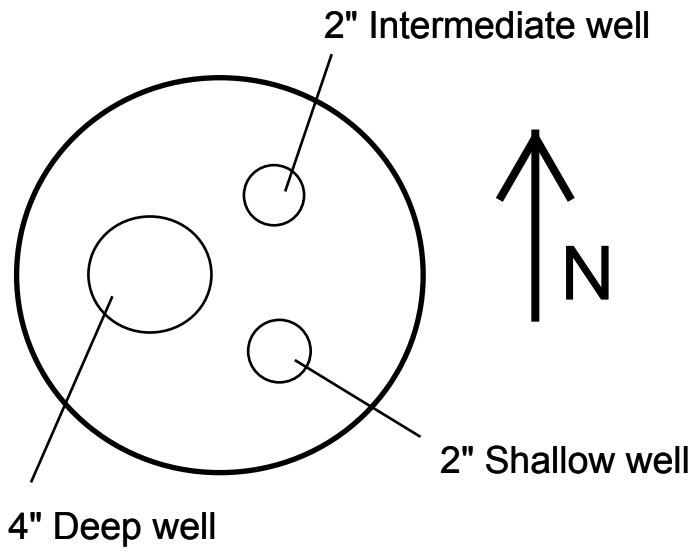
FORMER Y STATION
CLOVIS, NEW MEXICO
RW-1

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	305-315	SP		Sand with calcium carbonate concretions, HC odor, as above.
	>15,000			SP		Sand with calcium carbonate concretions, HC odor, as above.
		100	315-325	SP		Sand with calcium carbonate concretions, HC odor, as above.
	27.9			SP		Sand with calcium carbonate concretions, HC odor, as above.
		100	325-335	SP		Sand with calcium carbonate concretions, saturated, odorless, as above.
	NA			SP		Sand with calcium carbonate concretions, saturated, odorless, as above.
		100	335-345	SP		Sand with calcium carbonate concretions, as above.
	NA			SP		Sand with calcium carbonate concretions, as above.
		100	345-355	SP		Sand with calcium carbonate concretions, as above.
				SC	348-353	Clayey sand with calcium carbonate concretions, light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, moderate plasticity, loose, wet, odorless.
	NA			SC		Clayey sand - as above.
				SC	353-365	Clayey sand with gravel - light brown (7.5YR 6/4), fine to coarse grained, poorly sorted, rounded to subangular, low plasticity, wet, gravel up to 2", odorless.
		100	355-365	SC		Clayey sand with gravel - as above.
	NA			SC		Clayey sand with gravel - as above.



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

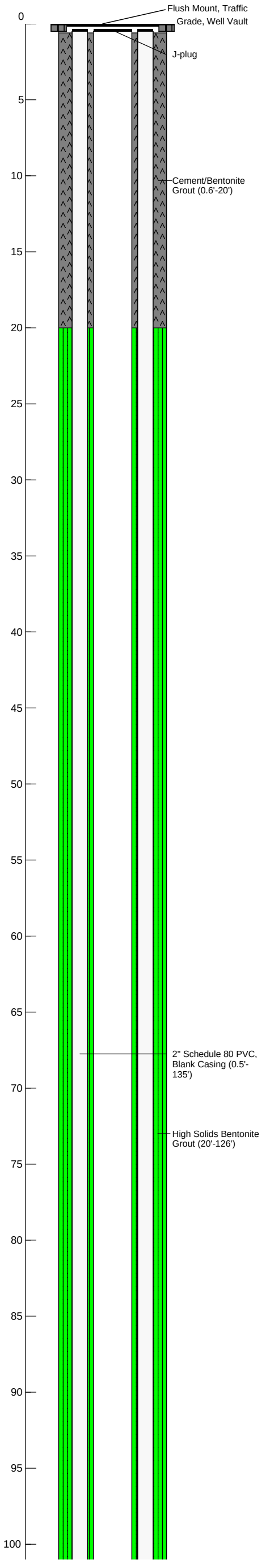
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

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

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5/17/2021 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
				NA	0-0.5	Asphalt.
	0.0	100	0-5	CL	0.5-4	Sandy clay - dark brown (7.5YR 3/3), medium stiff, slight to moderate plasticity, slightly moist, odorless.
				CH	4-5	Clay with silt - pink (7.5YR 7/4), soft, moderate to high plasticity.
	0.0	100	5-15	SC	5-25	Clayey sand - strong brown (7.5YR 5/6), fine grained, well sorted, subrounded, stiff, brittle to slightly plastic, odorless. Carbonate cementation (caliche) present in stringers and ribbons becoming more pervasive with depth.
	0	30	15-25	SC		Clayey sand - as above.
				SC		Clayey sand - yellowish red (5YR 5/6), fine grained, well sorted, variably cemented with caliche. Sands are loose to moderately cohesive, slightly moist, odorless.
	0	100	25-35	SM	25-27	Silty sand - strong brown (7.5YR 5/6), very fine grained sand and silt, loose to slightly cohesive, dry to slightly moist, ordorless.
				SC	27-33	Clayey sand - strong brown (7.5YR 5/6), fine grained sand with appreciable clay content, variably cemented with caliche, increasing with depth, moderately stiff to well cemented, odorless.
				SM	33-43	Silty sand - light brown (7.5YR 6/4), fine to medium grained, moderately sorted, variably cemented with caliche, loose where not cemented, dry, odorless.
	0	100	35-45	SM		Silty sand - similar to above, grading downward to fine sand (SP). Caliche stringers and nodules abundant, loose where not cemented, dry, odorless.
				SP	43-50	Sand - reddish yellow (7.5YR 6/6), fine to very fine grained, well sorted, rounded, loose to weakly cemented.
	0	100	45-55	SP		Sand - as above.
	0.0			SP/SM	50-55	Sand - strong brown (7.5YR 5/6), very fine to fine grained, generally loose to weakly cemented, with variable degrees of calcium carbonate cement in stringers and nodules, dry, ordorless.
	0.0	100	55-65	NA	55-60	Caliche - white to pinkish gray (7.5YR 7/2), masssive, very hard, weakly cemented sand and silt stringers present.
				SM	60-65	Silty sand - pink (7.5YR 7/3), fine grained, significant caliche development, otherwise loose, dry, odorless.
	0.0	100	65-75	SP	65-243	Sand with silt - reddish yellow (7.5YR 6/6), very fine to fine grained, well sorted, rounded, approximately 15% silt, generally loose with sparse caliche nodules.
	83.2	100	75-85	SP		Sand with silt - as above.
				SP		Sand - reddish yellow (7.5YR 6/6), fine to medium grained, moderately well sorted, little to no caliche development, loose, slightly moist, slight hydrocarbon odor.
	0.0	100	85-95	SP		Sand - as above, some carbonate development (~10%).
				SP		Sand - greater cementation, otherwise as above.
				SP		Sand - little to no caliche developement, otherwise as above.
	0.4	100	95-105	SP		Sand - no HC odor, otherwise as above.

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

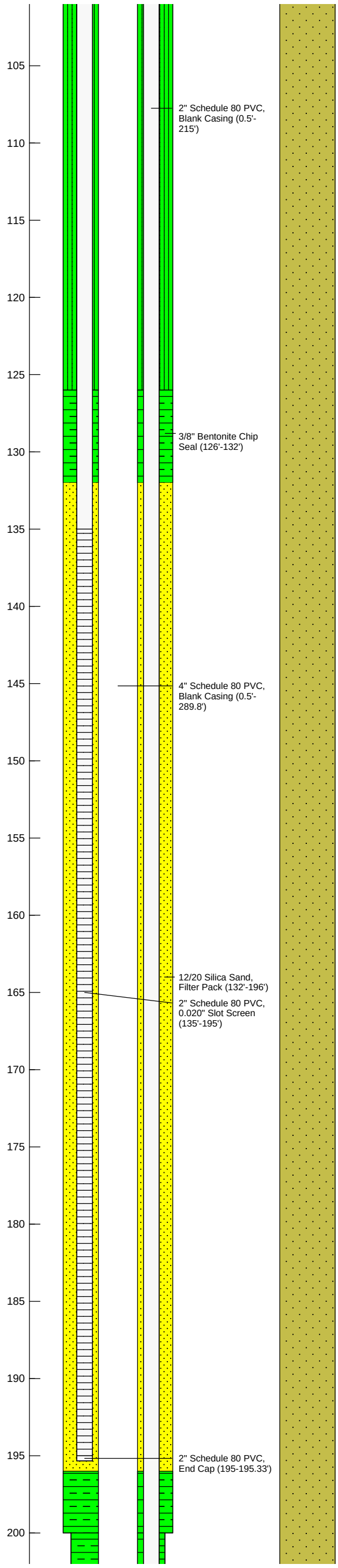
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

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

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	105	19.1	100	105-110	SP		Sand - similar to above but mottled with light gray (7.5YR 7/1), variable but generally greater developement of carbonate cementation (10-20%) in nodules and lenses.
	110	1.8	100	110-115	SP		Sand - as above.
	115	58	100	115-125	SP		Sand - as above.
	120						
	125	6.9	100	125-135	SP		Sand - as above.
	130						
					SP		Sand - light brown (7.5YR 6/4), fine grained, well sorted, loose with sparse carbonate cemmented nodules, slightly moist, slight HC odor.
	135	389.4	100	135-145	SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, loose with little to no carbonate development, slightly moist, slight HC odor.
	140				SP		Sand - similar to above but with large (up to 2") carbonate cemented nodules, strong HC odor.
	145	295.6	100	145-155	SP		Sand - as above, HC odor.
	150						
	155	603.3	100	155-165	SP		Sand - as above, HC odor.
	160				SP		Sand - general increase in carbonate cementation, abundant hard carbonate cemented nodules and lenses, mododerate HC odor.
	165	>15,000	100	165-175	SP		Sand - reddish yellow (7.5YR 6/6), fine grained, very well sorted, loose with little to no carbonate development, slightly moist, HC odor.
	170						
	175	2338	100	175-185	SP		Sand - as above, HC odor.
	180						
	185	>15,000	100	185-195	SP		Sand - as above, HC odor.
	190						
	195	3553	100	195-200	SP		Sand - similar to above but slightly finer grained (very fine sand).
	200	5133	100	200-210	SP		Sand - as above, very fine sand with trace silt.

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

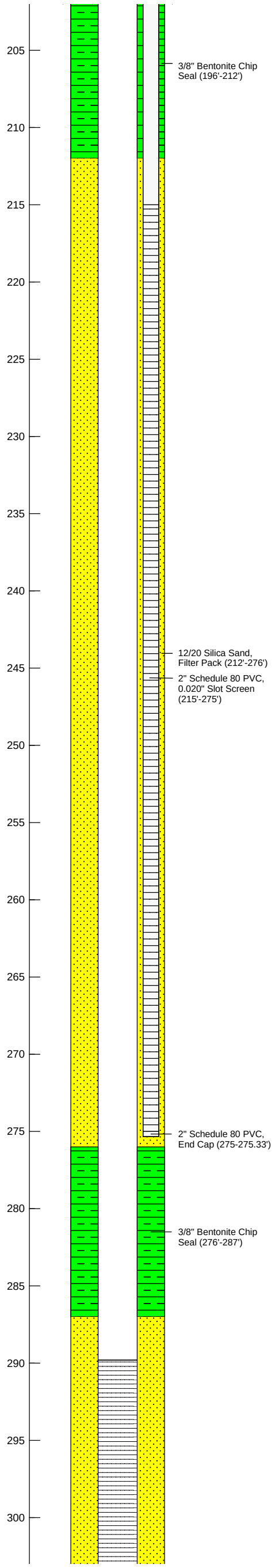
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

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

Daniel B. Stephens & Associates, Inc.
5/17/2021 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	2994	100	210-217	SP		Sand - as above.
	>15,000	100	217-227	SP		Sand - similar to above but with lenses of darker sand, olive yellow (10YR 5/6), fine grained, well sorted, loose to very weakly cemented.
	>15,000	100	227-235	SP		Sand - reddish yellow (7.5YR 6/6), very fine grained, well sorted, loose with sparse carbonate nodules 1-5 cm diameter, slightly moist, HC odor.
	861.1	100	235-245	SP		Sand - as above.
				SM	243-245	Silty sand - reddish yellow (7.5YR 6/6), very fine grained, greater cementation than above.
	3129	100	245-255	SP	245-354	Sand - reddish yellow (7.5YR 6/6), very fine to fine grained, well sorted, loose with sparse carbonate nodules, occurance increasing with depth, slightly moist, HC odor.
	1661	100	255-265	SP		Sand - as above with some olive yellow color mottling (10YR 6/6), HC odor.
	>15,000	100	265-275	SP		Sand - similar to above, variable but generally greater cementation through this interval.
	1661	100	275-277	SP		Sand - as above.
	>15,000	100	277-284	SP		Sand - continue as above, but sparsely interbedded with thin sandstone beds (<2"). Sandstone is light brown (7.5Y/R 6/4), fine grained, structureless, moderately indurated.
	>15,000	100	284-295	SP		Sand - as above.
	>15,000	100	295-300	SP		Sand - as above.
	>15,000	100	300-315	SP		Sand - as above.

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

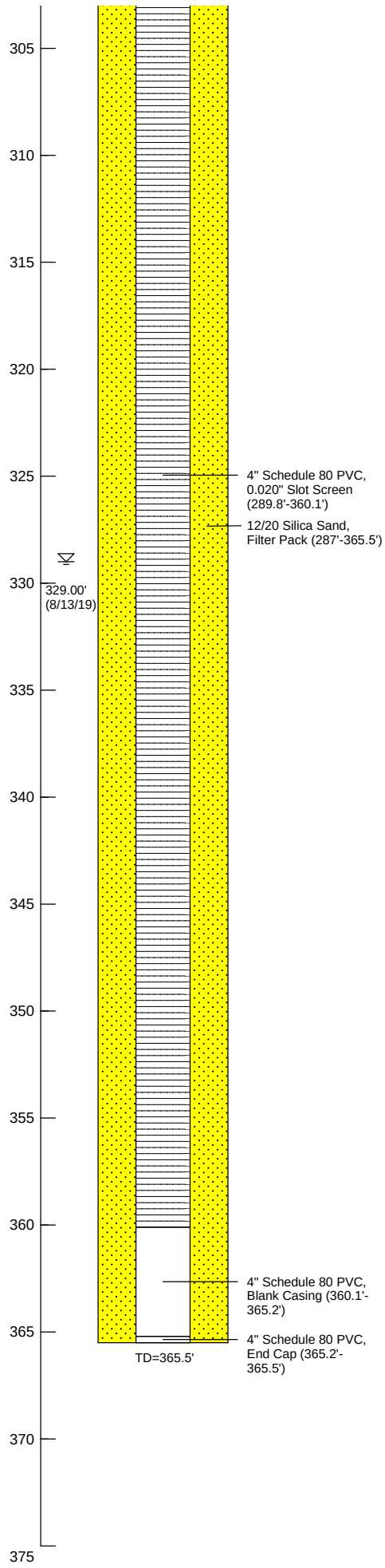
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

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

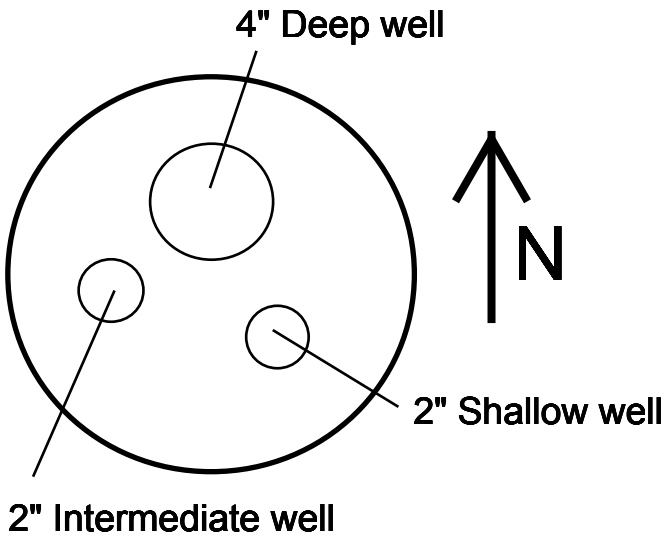
FORMER Y STATION
CLOVIS, NEW MEXICO
RW-2

Daniel B. Stephens & Associates, Inc.
5/17/2021 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	>15,000	100	315-325	SP		Sand - generally as above but with a thin, well-indurated bed at 320'.
	>15,000	100	325-335	SP		Sand - as above, trace silt, encounter water table at approximately 329'.
	516.9	100	335-345	SP		Sand - with silt, otherwise as above.
	48.1	100	345-352	SP		Sand - as above with trace clay (<10%), wet.
		100	352-360	SP		Sand - strong brown (7.5YR 5/6), fine grained, loose to slightly cohesive, minor rounded to subrounded gravels up to 0.5", wet.
				CL	354-360	Sandy clay - reddish brown (2.5YR 5/4), fine grained, slightly to moderately plastic, minor rounded to subrounded gravels up to 0.5", wet.
		100	360-365	SC	360-365	Clayey sand with gravel - light brown (7.5YR 6/4), fine grained, poorly sorted, slightly to moderately plastic, moderately dense, abundant subrounded gravels up to 2" diameter, wet.



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

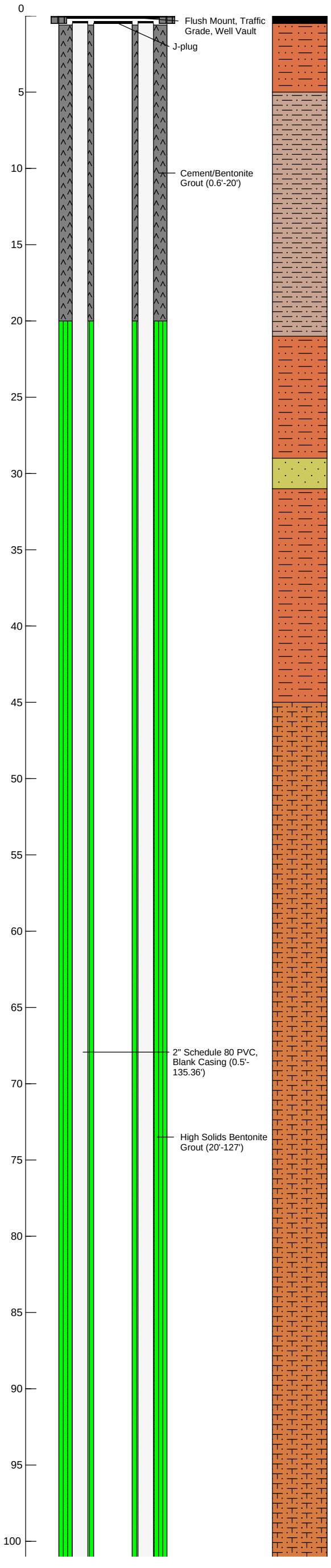
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

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

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5/17/2021 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	9.6		0-5	NA	0-0.5	Asphalt
				SC	0.5-5	Clayey sand - dark brown (7.5YR 3/4), fine grained, well sorted, subangular, high plasticity, loose, slightly moist, odorless.
		100	5-15	CH	5-21	Sandy clay with caliche - yellowish red (5YR 5/6), fine grained, well sorted, subangular, high plasticity, stiff, dry, odorless.
	2.8			CH		Sandy clay - as above.
		100	15-25	CH		Sandy clay - as above.
	0.3			CH		Sandy clay - as above.
				SC	21-29	Clayey sand - yellowish red (5YR 5/8), and pinkish white (7.5YR 8/2), fine grained, well sorted, subrounded, to angular, low plasticity, loose to semi-consolidated, dry, odorless.
		100	25-35	SC		Clayey sand - decreased caliche, otherwise as above.
				SP	29-31	Sand - yellowish red (5YR 5/8), fine grained, well sorted, subrounded to subangular, non-plastic, minor clay, loose, dry, odorless.
	3.0			SP		Sand - as above.
				SC	31-45	Clayey sand - reddish yellow (5YR 5/6), minor silt, fine grained, well sorted, subrounded to subangular, with caliche - pinkish white (7.5YR 8/2), semi consolidated, dry, odorless.
		100	35-45	SC		Clayey sand - as above.
	0.0			SC		Clayey sand - reduced claiche, otherwise as above.
		100	45-55	SP	45-335	Sand with silt and clay - yellowish red (5YR 5/6), fine grained, well sorted, subrounded to angular, low plasticity, loose, dry, odorless.
	7.6			SP		Sand with slilt and clay - as above.
		100	55-63	SP		Sand with silt - pink (7.5YR 7/3), fine grained, well sorted, subrounded minor clay, low plasticity, loose, dry, odorless, calcium carbonate reaction with HCl; some consolidated areas.
	0.0			SP		Sand with silt - as above.
		100	63-73	SP		Sand with silt - as above.
	6.6			SP		Sand with silt - as above.
		100	73-85	SP		Sand with silt - as above.
	0.5			SP		Sand with silt and calcium carbonate concretions - otherwise as above.
		100	85-95	SP		Sand with silt and calcium carbonate concretions - as above.
	0.4			SP		Sand with silt and calcium carbonate concretions - as above.
		100	95-105	SP		Sand with silt and calcium carbonate concretions - as above.
	0.5			SP		Sand with silt and calcium carbonate concretions - as above.

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

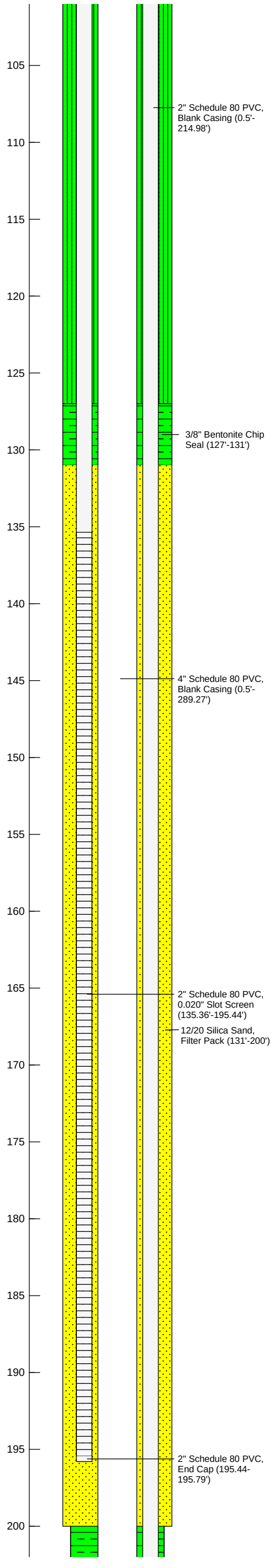
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

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

Daniel B. Stephens & Associates, Inc.
9/26/2019 JN DB18.1157.00

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	105		100	105-115	SP		Sand with silt and calcium carbonate concretions - as above.
	110	1.3			SP		Sand with silt and calcium carbonate concretions - as above.
	115		100	115-125	SP		Sand with silt and calcium carbonate concretions - as above.
	120	73.2			SP		Sand with silt - no calcium carbonate concretions, black staining, otherwise as above.
					SP		Sand with silt - no staining, otherwise as above.
	125		100	125-135	SP		Sand with silt - as above.
	130	4.1			SP		Sand with silt - as above.
	135		100	135-145	SP		Sand with silt - as above.
	140	22.7			SP		Sand with silt - as above.
	145		100	145-155	SP		Sand with silt - as above.
	150	3.6			SP		Sand with silt - as above.
	155		100	155-165	SP		Sand with silt - as above.
	160	2.8			SP		Sand with silt - as above.
	165		100	165-175	SP		Sand with silt - as above.
	170	17.3			SP		Sand with silt - with minor gray staining, odorless, otherwise as above.
					SP		Sand with silt andcalcium carbonate concretions - no staining, otherwise as above.
	175		100	175-185	SP		Sand with silt and calcium carbonate concretions - no staining, otherwise as above.
	180	14.5			SP		Sand with silt - odorless, otherwise as above.
	185		100	185-195	SP		Sand with silt - minor gray staining, otherwise as above.
					SP		Sand with silt - no staining, otherwise as above.
	190	6.1			SP		Sand with silt - slight HC odor, as above.
	195		100	195-205	SP		Sand with silt - slight HC odor, as above.
	200	13.2			SP		Sand with silt - slight HC odor, as above.

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

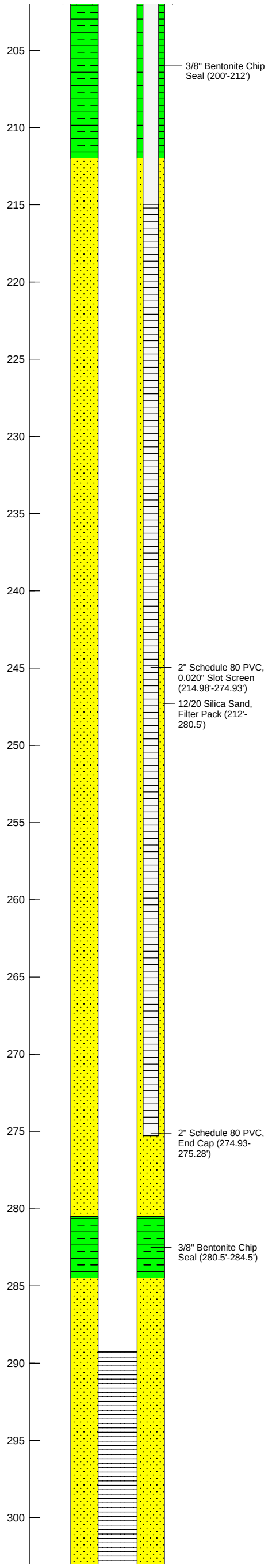
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

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

Daniel B. Stephens & Associates, Inc.
9/26/2019 JN DB18.1157.00

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Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	205		100	205-215	SP		Sand with silt and calcium carbonate concretions - slight HC odor, otherwise as above.
	210	16.9			SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	215		100	215-225	SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	220	53.4			SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	225		100	225-235	SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	230	17.4			SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	235		100	235-245	SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	240	30.6			SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	245		100	245-255	SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	250	26.8			SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	255		100	255-265	SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	260	6.3			SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	265		100	265-272	SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	270				SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
		32.2	100	272-284	SP		Sand with silt and calcium carbonate concretions - slight HC odor, as above.
	275						
	280	21.1			SP		Sand with silt - no calcium carbonate concretions, slight HC odor, otherwise as above.
	285		0	284-294	SP		No Recovery.
	290						
	295	>15,000	100	294-305	SP		Sand with silt - slight HC odor, as above.
	300	>15,000			SP		Sand with silt - very strong HC odor, otherwise as above.

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

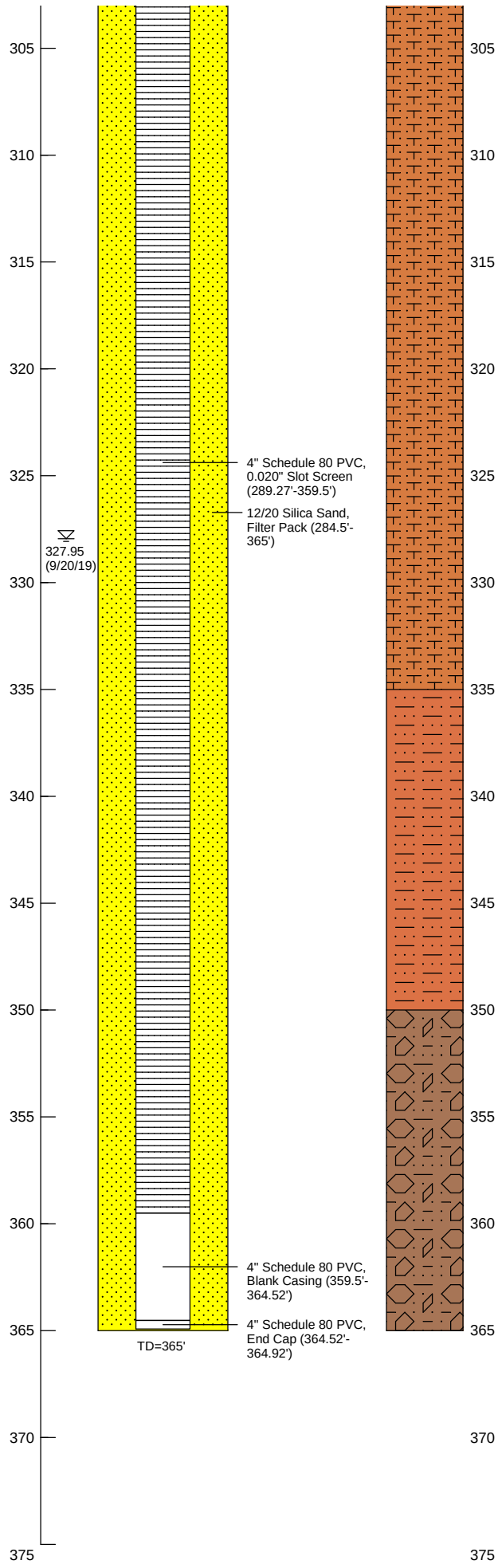
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

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

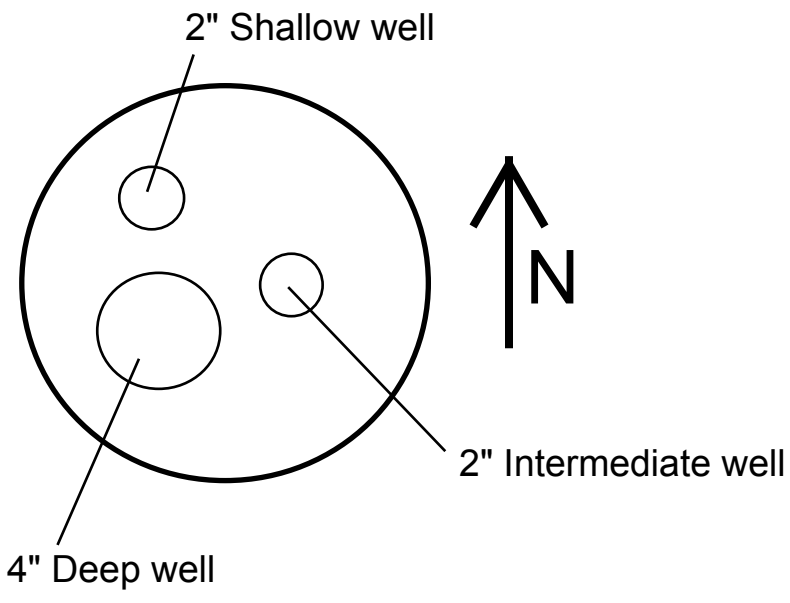
FORMER Y STATION
CLOVIS, NEW MEXICO
RW-3

Daniel B. Stephens & Associates, Inc.
9/26/2019 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	305-315	SP		Sand with silt - very strong HC odor, as above.
	>15,000			SP		Sand with silt - very strong HC odor, as above.
		100	315-325	SP		Sand with silt - very strong HC odor, as above.
	27.9			SP		Sand with silt - very strong HC odor, as above.
		100	325-335	SP		Sand with silt - very strong HC odor, as above.
	NA			SP		Sand with silt - very strong HC odor, as above.
		100	335-345	SC	335-365	Clayey sand - yellowish red (5YR 4/6), fine grained, well sorted, rounded, low plasticity, medium dense, slightly moist, no odor.
	NA			SC		Clayey sand - as above.
		100	345-355	SC		Clayey sand - as above.
	NA			SC		Clayey sand with gravel - light brown (7.5YR 6/4), fine to coarse grained, poorly sorted, rounded to subangular, low plasticity, wet, gravel up to 3", odorless.
		100	355-365	SC		Clayey sand with gravel - as above.
	NA			SC		Clayey sand with gravel - as above.



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

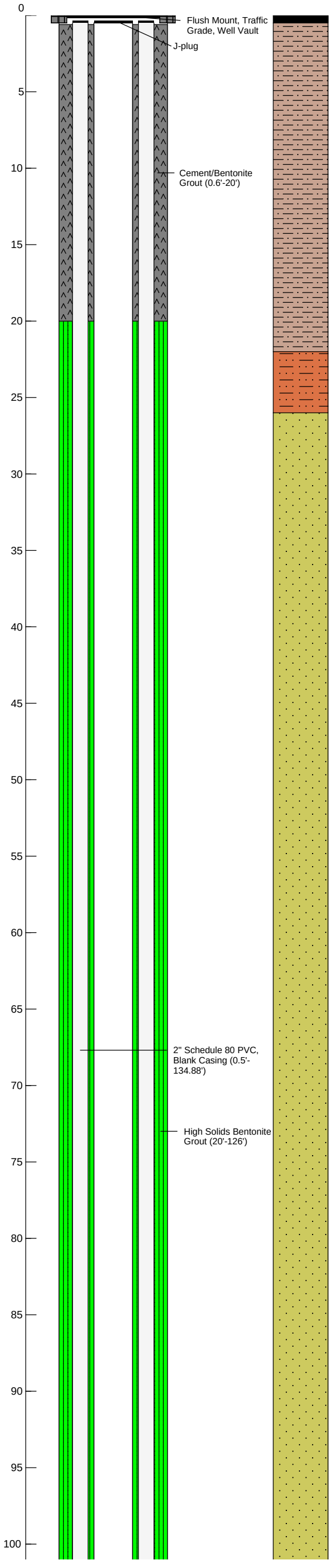
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

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

Daniel B. Stephens & Associates, Inc.
9/26/2019 JN DB18.1157.00

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PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
			NA	0-0.5	Asphalt.
7.2	100	0-5	CL	0.5-22	Sand clay - brown (7.5YR 4/4), fine grained, well sorted, subrounded, moderate plasticity, loose to medium dense, slightly moist, no odor, calcium carbonate.
0.2	100	6-16	CL		Sandy clay - yellowish red (5YR 5/6), otherwise as above.
2.7	100	16-26	CL		Sandy clay - as above.
			SC	22-26	Clayey sand - yellowish red (5YR 5/6), fine grained, well sorted, subrounded, low plasticity, partially cemented (calcium carbonate rich), dry, no odor.
			SC		Clayey sand - reddish yellow (5YR 6/6), with less calcium carbonate, loose, otherwise as above.
0.0	100	26-36	SP	26-347	Sand - pink (5YR 7/4), fine grained, well sorted, subrounded, non-plastic, loose to partially cemented, no odor, trace silt, calcium carbonate rich.
	100	34-46	SP		Sand - reddish yellow (5YR 6/6), fine grained, well sorted, subrounded, low plasticity (trace clay), loose, dry, no odor.
0.0			SP		Sand - no clay (non-plastic), trace calcium carbonate nodules, otherwise as above.
0.0	100	46-56	SP		Sand - as above.
			SP		Sand - pink (5YR 7/4), very high calcium carbonate concentrations, partially cemented, otherwise as above.
4.6	100	56-66	SP		Sand - light reddish brown (5YR 6/4), fine grained, well sorted, subrounded, non-plastic, partially cemented, dry, no odor, calcium carbonate rich, trace silt.
5.0	100	66-76	SP		Sand - loose, lower calcium carbonate concentration, otherwise as above.
0.8	100	76-86	SP		Sand - as above.
			SP		Sand - reddish yellow (7.5YR 6/6), fine grained, well sorted, subrounded to subangular, non-plastic, loose, dry, little to no calcium carbonate.
3.6	100	86-96	SP		Sand - as above.
0.0	100	96-104	SP		Sand - as above.

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

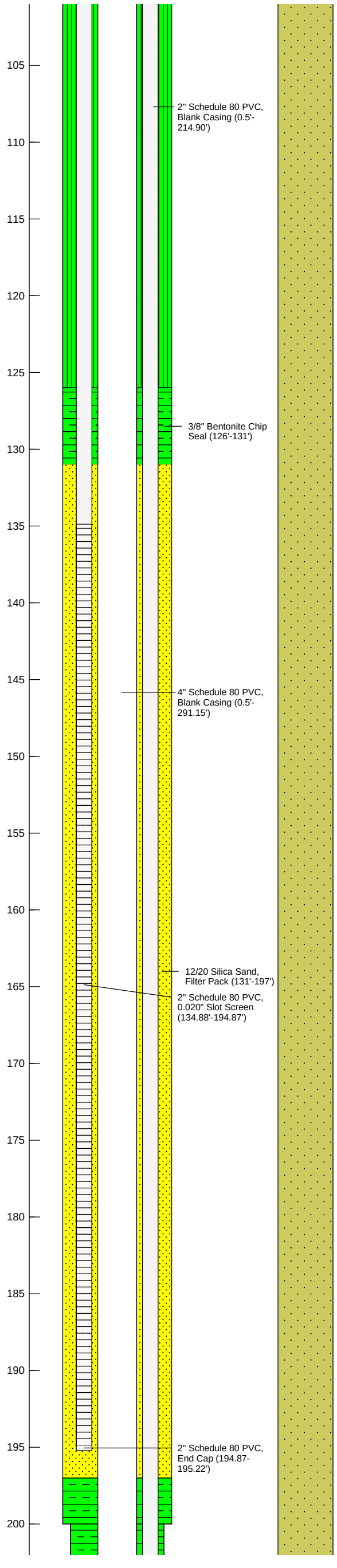
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

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

Daniel B. Stephens & Associates, Inc.
9/26/2019 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	0.6	100	104-108	SP		Sand - as above.
	0.0	100	108-116	SP		Sand - increased calcium carbonate concentrations (~15%) at 110', otherwise as above.
	2.9	100	116-126	SP		Sand - <10% calcium carbonate, otherwise as above.
	3.0	100	126-136	SP		Sand - as above.
	0.4	100	136-146	SP		Sand - as above.
	23.7	100	146-156	SP		Sand - as above.
	16.4	100	156-166	SP		Sand - as above.
	13.7	100	166-176	SP		Sand - less calcium carbonate, otherwise as above.
	19.5	100	176-182	SP		Sand - as above.
	92.4	100	182-192	SP		Sand - higher concentrations of calcium carbonate at 186'-187', otherwise as above.
	66.6	100	192-202	SP		Sand - as above.

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

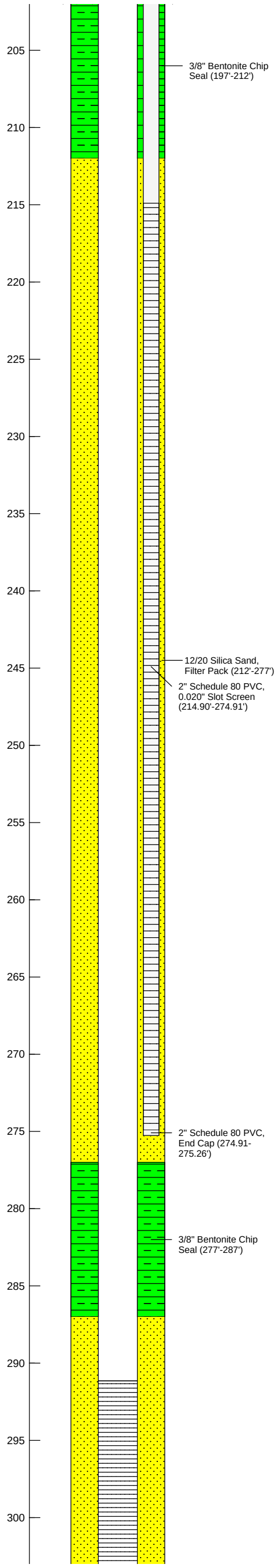
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

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

Daniel B. Stephens & Associates, Inc.
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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	26.7	10	208-216	SP		Sand - as above.
	27.8	100	216-226	SP		Sand - as above.
	2.8	100	226-236	SP		Sand - increased calcium carbonate at 228'-229', otherwise as above.
	2.0	100	236-246	SP		Sand - as above.
	234.6	100	246-256	SP		Sand - as above.
	31.3	100	256-266	SP		Sand - increased calcium carbonate at 262'-264', otherwise as above.
	119.6	100	266-276	SP		Sand - as above.
	270.9	100	276-286	SP		Sand - increased calcium carbonate concentration, otherwise as above.
	815	100	286-292	SP		Sand - less calcium carbonate, HC odor, otherwise as above.
	474.5	100	292-302	SP		Sand - strong HC odor, higher calcium carbonate concentration at 300'-301', otherwise as above.
	435.1	100	302-310	SP		Sand - HC odor, increased calcium carbonate at 308.5'-310', otherwise as above.

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

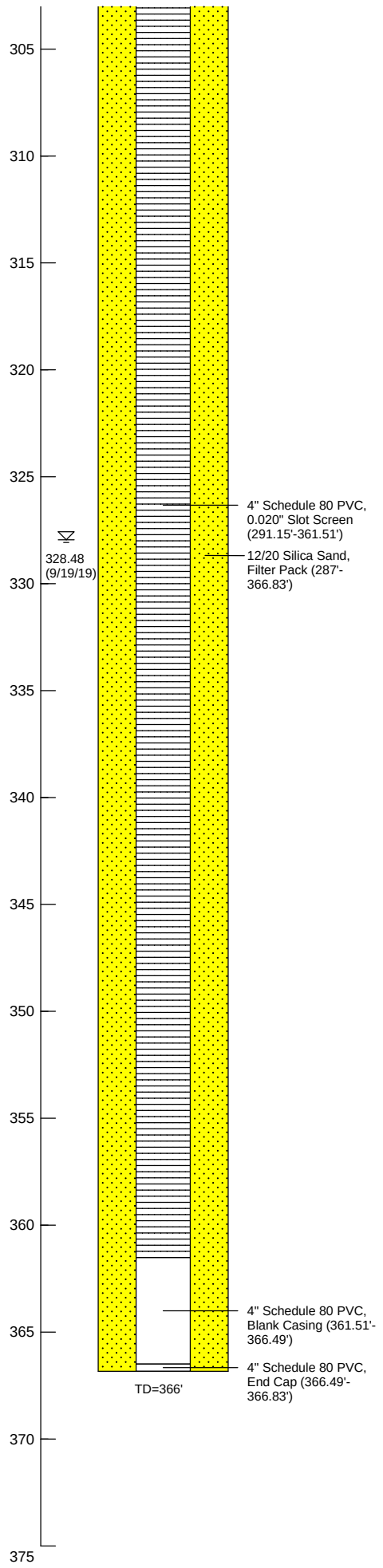
Drilling method: Sonic
Borehole diameter: 10.25"/9.5"
Sampling method: Sonic core

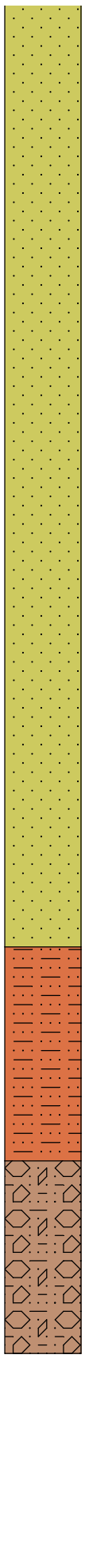
DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245346.00 Elevation: 4278.84
Easting: 884279.77

FORMER Y STATION
CLOVIS, NEW MEXICO
RW-4

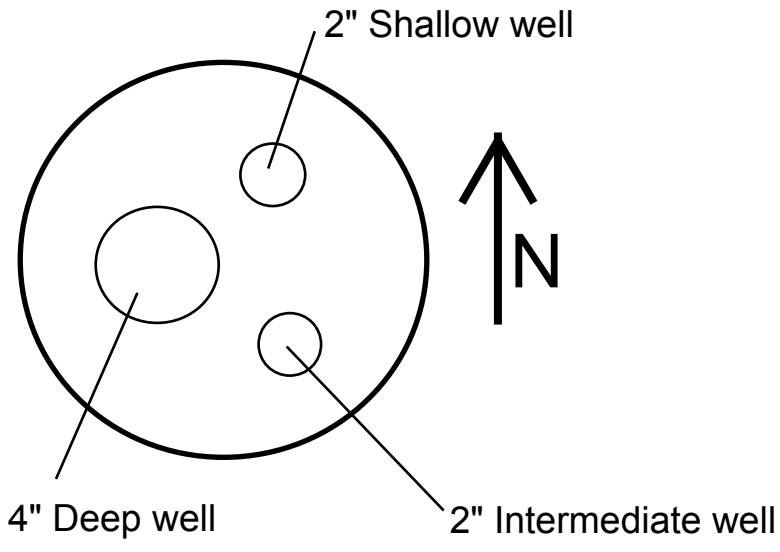
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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	448.6	100	310-316	SP		Sand - increased calcium carbonate, strong odor, moist, trace silt, otherwise as above.
	345.6	100	316-326	SP		Sand - as above.
	598.7	100	326-336	SP		Sand - as above, wet at 331'.
	NA	100	336-346	SP		Sand - with trace low plasticity clay, otherwise as above.
	NA	100	346-350	SP		Sand - as above.
				SC	347-357	Clayey sand - light reddish brown (5YR 6/4), fine grained, well sorted, subrounded, low plasticity, loose, saturated, HC odor.
	NA	100	350-360	SC		Clayey sand - as above.
				SW	357-366	Gravelly sand with clay - light reddish brown (5YR 6/3), fine grained, poorly sorted, subrounded, fine gravels, low plasticity, loose, calcium carbonate, damp to wet, HC odor.
	NA	100	360-366	SC		Gravelly sand with clay - as above.



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

Daniel B. Stephens & Associates, Inc.
9/26/2019 JN DB18.1157.00

Appendix B

Survey Report

DBS&A
a Geo-Logic Company

LYDICK
ENGINEERS & SURVEYORS
CLOVIS, NEW MEXICO

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

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



205 E. Second St. • Clovis, New Mexico 88101 • P.O. Box 728 • Clovis, New Mexico 88102-0728
ph: 575-762-3771 • fax: 575-762-9093

Appendix C

Field Notes

DBS&A
a Geo-Logic Company

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: CMBarkhill/JTHealy	**Date/Time on Site:** 10/28/24 @ 0800

Compound Readings

Service Gas Meter (cf): (take photo)	Service Electric Meter (kWh): (take photo)
78591	147658

Oxidizer [Oxidizer Screen]

Oxidizer Hours[1]	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)
2424	0.0	1400	1343	73.6

DPE Blower Information [HMI Screen]

Vacuum (in H_2O)[2]	Temp (°F)[2]	Flow (SCFM)[2]	Hours[3]	Speed (Hz)[3]
68.0	118.7	535	5 5006 6	33.0

Motor Control (Hours)

DTA Blower[3]	Moisture Sep Transfer Pump[3]	Discharge Pump[3]
6598.1	53.5	1618.4

Groundwater Treatment Totals

Flow Total from HMI (gal)	Flow Total from Physical Meter (gal)	Flow Rate from Physical Meter (gpm)
18 183.11 x 100		

Groundwater Well Information [HMI]

Time Recorded	Well	Pump Hours[3]	Well Level (ft abv trs)[5]	Flow Total[4]
	RW-1	3791.5	0.0	315470
	RW-2	2802.3	7.3	81444
	RW-3	4785.0	32.6	423629
	RW-4	4625.7	7.6	606055
	BW-7R	4043.4	5.6	256369
	MW-11	3131.2	0.0	274041
	MW-12	4453.5	26.3	470616
	MW-13	5718.3	21.2	270734
	MW-16	3885.4	25.3	112417

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	Ø	Ø	4.101

Laboratory Samples Collected
Match names and times from here on labels and chain of custody form

FY Treated Eff (H_2O)	FY Raw (H_2O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)
13:20	13:00	12:52	12:45	NA

Bottle Kits Remaining: _____ Tedlar Bags Remaining: 15

[1]Only found on the oxidizer panel screen
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Rev. 8 (6/17/2024)

Former Y O&M

Date: 10/28/24

Compound Vapor Measurements

Time	Sample Point	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)	Notes
12:31	SVE 1	718.8	N/A	N/A	-51.6	Forgot flow meter - 1
—	SVE 2	—	—	—	—	—
—	SVE 3	—	—	—	—	—
12:31	Combined Influent	718.8	N/A	N/A	-51.6	
12:46	Oxidizer Effluent	41.6				Forgot Flow Meter -

Field Measurements

GW Measurements

Time	Sample Point	Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)
	RW-1	0	~~03115~~ 0313.5 ×100	N/A pump OFF
	RW-2	0	0043.1 ×100	N/A pump OFF
	RW-3	0	0450.5	~~4 GPM~~ N/A pump OFF
	RW-4	3.7	0099.9	4 GPM
	BW-7R	0	0256.2	N/A pump off
	BW-8			
	MW-11	0	0265.6	0.826 GPM
	MW-12	Van Parked on Top of Vault		
	MW-13	0	0270.9	0.826 GPM
	MW-16	0	0173.1	N/A pump off

Vapor Measurements

	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)
RW-1-S	351.9	N/A	N/A	-33.7
RW-1-I	670.4	N/A	N/A	-34.6
RW-1-D	1383	N/A	N/A	-33.7
RW-2-S	146.8	N/A	N/A	-37.5
RW-2-I	131.8	N/A	N/A	-34.5
RW-2-D	65.0	N/A	N/A	-33.0
RW-3-S	Valve closed	N/A	N/A	Valve closed
RW-3-I	Valve closed	N/A	N/A	Valve closed
RW-3-D	1698	N/A	N/A	-43.4
RW-4-S	Valve closed	N/A	N/A	Valve closed
RW-4-I	closed Valve	N/A	N/A	Valve Closed
RW-4-D	763.1	N/A	N/A	-44.2
BW-7R	Closed Valve	N/A	N/A	closed valve
BW-8-S	325.9	N/A	N/A	-34.7
BW-8-I	2448	N/A	N/A	-34.9
BW-8-D	855.5	N/A	N/A	-34.9
MW-11	Valve closed	N/A	N/A	Valve closed
MW-12	Van Parked on Top of Vault			
MW-13	Valve closed	N/A	N/A	Valve closed
MW-16	Valve closed	N/A	N/A	Valve closed

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	0	0	0

[1]Only found on the oxidizer main screen, not the H2K HMI
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

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: RV / GMH	**Date/Time on Site:** 11/1/24 9:00

Compound Readings

Service Gas Meter (cf): (take photo)	8578000	**Service Electric Meter (kWh): (take photo)**	150039

Oxidizer [Oxidizer Screen]

Oxidizer Hours[1]	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)
5,450 ~~2430~~	0.0	1404	1345	72.8

DPE Blower Information [HMI Screen]

Vacuum (in H_2O)[2]	Temp (°F)[2]	Flow (SCFM)[2]	Hours[3]	Speed (Hz)[3]
57.3	103.1	~~35~~ 600	5122.8	33

Motor Control (Hours)

DTA Blower[3]	Moisture Sep Transfer Pump[3]	Discharge Pump[3]
6935.0	536	1692.9

Groundwater Treatment Totals

Flow Total from HMI (gal)	Flow Total from Physical Meter (gal)	Flow Rate from Physical Meter (gpm)
1831100	1819900	20.0

Groundwater Well Information [HMI]

Time Recorded	Well	Pump Hours[3]	Well Level (ft abv trs)[5]	Flow Total[4]
11:52	RW-1	3791.5	NR	315470
	RW-2	2802.3	NR	81513
	RW-3	5199.9	32.2	4236860
	RW-4	4963.6	18.2	6000055
	BW-7R	4091.0	12.0	2710069
	MW-11	3241.9	NR	2740560
	MW-12	4453.5	~~26.7~~ 21.7	4706016
	MW-13	6056.3	21.3	2815320
	MW-16	3885.4	25.1	112417

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**
NONE	NONE	NONE	∅	∅	3.9

Laboratory Samples Collected
Match names and times from here on labels and chain of custody form

FY Treated Eff (H_2O)	FY Raw (H_2O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)
11:15	11:10	~~1420~~ 1420	1425	—

Bottle Kits Remaining: plenty
*Restocked coolers + supplies

Tedlar Bags Remaining: 20 +

[1]Only found on the oxidizer panel screen
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Former Y O&M

Date: 11/11/2024

Compound Vapor Measurements

Time	Sample Point	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)	Notes
1345	SVE 1	594.7	815.29	2505.4	53.7	
NR	SVE 2	[OFF] →				
NR	SVE 3	[OFF] →				
~~NR~~	Combined Influent	[SEE SVE 1] →				
1408	Oxidizer Effluent	15.5				

Field Measurements

GW Measurements					Vapor Measurements				
Time	Sample Point	Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)		Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)
	RW-1	ϕ	0315500	OFF	RW-1-S	228.1	60.88	2833	36.4
					RW-1-I	297.3	40.96	1909	36.1
					RW-1-D	801.4	66.12	3083	36.6
	RW-2	ϕ	0431300	OFF	RW-2-S	237.1	63.23	2990	38.4
					RW-2-I	308.2	56.71	2597	36.8
					RW-2-D	222.6	52.02	2474	36.7
	RW-3	ϕ	450500	OFF ϕ	RW-3-S	OFF →	~~73.76~~	~~3867~~	~~35.6~~ →
					RW-3-I	OFF →	~~63.91~~	~~3005~~	~~35.8~~ →
					RW-3-D	1678	~~74.90~~ 64.99	~~2921~~ 3441	~~43.6~~ ~~36.0~~
	RW-4	5	0099900	3.5	RW-4-S	OFF →			
					RW-4-I	OFF →			
					RW-4-D	SVE SYSTEM ~~1678~~	OFF ~~74.90~~	~~3447~~	~~43.6~~
	BW-7R	ϕ	~~0278~~ 800	5.0	BW-7R	OFF →			
	BW-8				BW-8-S	72.4	73.76	3867	35.6
					BW-8-I	138.3	63.91	3005	35.8
					BW-8-D	776.2	64.99	2921	36.0
	MW-11	ϕ	~~0270000~~	1.5	MW-11	OFF →			
	MW-12	ϕ	0510000	2.0	MW-12	OFF →			
	MW-13	ϕ	0281000	1.0	MW-13	OFF →			
~~OFF~~	MW-16	ϕ	0173200	1.5	MW-16	OFF →			

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)
NONE	NONE		NONE	NONE

[1]Only found on the oxidizer main screen, not the H2K HMI
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

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	**Date/Time on Site:** 12/04/24 10:00

Compound Readings

Service Gas Meter (cf): (take photo) 74460	**Service Electric Meter (kWh): (take photo)** 120124

Oxidizer [Oxidizer Screen]

Oxidizer Hours[1]	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)
5656	0.0	1398	1329	70.2

DPE Blower Information [HMI Screen]

Vacuum (in H_2O)[2]	Temp (°F)[2]	Flow (SCFM)[2]	Hours[3]	Speed (Hz)[3]
57.9	101.6	576	5651.5	33

Motor Control (Hours)

DTA Blower[3]	Moisture Sep Transfer Pump[3]	Discharge Pump[3]
7473.4	53.6	1776.4

Groundwater Treatment Totals

Flow Total from HMI (gal)	Flow Total from Physical Meter (gal)	Flow Rate from Physical Meter (gpm)
22438 x100	0393079	20.0

Groundwater Well Information [HMI]

Time Recorded	Well	Pump Hours[3]	Well Level (ft abv trs)[5]	Flow Total[4]
13:25	RW-1	3791.5	0.0	315470
	RW-2	2802.3	7.2	81547
	RW-3	5129.1	32.5	423717
	RW-4	5499.6	25.9	606055
	BW-7R	4163.9	7.6	294406
	MW-11	3772.2	0.0	291889
	MW-12	4985.7	26.5	470616
	MW-13	6589.6	21.4	281631
	MW-16	3887.7	21.3	112575

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	—	—	3.87

Laboratory Samples Collected
Match names and times from here on labels and chain of custody form

FY Treated Eff (H_2O)	FY Raw (H_2O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)
14:35	14:30	13:48	13:53	14:00

Bottle Kits Remaining: Lots

Tedlar Bags Remaining: Lots

[1]Only found on the oxidizer panel screen
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Former Y O&M

Date: 12/04/2024

Compound Vapor Measurements

Time	Sample Point	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)	Notes
13:40	SVE 1	395.9	840.83	2409	54.1	
—	SVE 2	closed				
—	SVE 3	closed				
13:52	Combined Influent	See (SVE-1)				
13:47	Oxidizer Effluent	11.0				
	OTA	17.4				

Field Measurements

GW Measurements

Time	Sample Point	Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)
12:13	RW-1	0	—	0
12:51	RW-2	0	0043172	0
11:49	RW-3	0	0450456	0
11:20	RW-4	50	0099022	1.56
11:15	BW-7R	5	0293700	5.40
12:36	BW-8			
10:25	MW-11	0	~~029731~~ 0297031	0.95
12:20	MW-12	0	0509124	1.02
10:43	MW-13	0	0281605	0
10:35	MW-16	0	0173284	Ø 2.10

Vapor Measurements

	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)
RW-1-S	112.4	58.19	2667	34.5
RW-1-I	137.3	38.12	1747	35.1 ~~34.8~~
RW-1-D	391.7	58.90	2700	34.8 ~~35.4~~
RW-2-S	>15000	57.87	2653	38.1
RW-2-I	~~36~~ >15000	50.37	2309	36.8
RW-2-D	>15000	45.41	2081	37.1
RW-3-S	closed			
RW-3-I	closed			
RW-3-D	>15000	59.65	2734	43.8
RW-4-S	27.5	64.46	2955	42.7
RW-4-I	35.8	57.24	2624	41.6
RW-4-D	>15000	49.25	2257	41.6
BW-7R	closed			
BW-8-S	11.2	71.94	3298	36.3
BW-8-I	30.6	49.93	2289	36.3
BW-8-D	368.1	49.98	2291	36.3
MW-11	Valve closed			
MW-12				
MW-13	Valve closed			
MW-16	Valve closed			

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	0	0	0

[1]Only found on the oxidizer main screen, not the H2K HMI
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

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: Rey Villanueva	**Date/Time on Site:** 12/18/24

Compound Readings

Service Gas Meter (cf): (take photo) ~~005247~~ 00694	**Service Electric Meter (kWh):** (take photo) 00524 / 121824

Oxidizer [Oxidizer Screen]

Oxidizer Hours[1]	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)
3002	~~67.7~~ 0.0	1398	1340	67.8

DPE Blower Information [HMI Screen]

Vacuum (in H_2O)[2]	Temp (°F)[2]	Flow (SCFM)[2]	Hours[3]	Speed (Hz)[3]
66.2	99.1	608	5680	35

Motor Control (Hours)

DTA Blower[3]	Moisture Sep Transfer Pump[3]	Discharge Pump[3]
7804.1	53.6	1848.0

Groundwater Treatment Totals

Flow Total from HMI (gal)	Flow Total from Physical Meter (gal)	Flow Rate from Physical Meter (gpm)
25695 x 100	4734.40	21.0

Groundwater Well Information [HMI]

Time Recorded	Well	Pump Hours[3]	Well Level (ft abv trs)[5]	Flow Total[4]
	RW-1	3791.5	0.0	315470
	RW-2	2802.3	6.7	81614
	RW-3	5129.2	31.9	423717
	R RW-4	5829.2	32.9	608055
	BW-7R	4207.7	7.8	308338
	R MW-11	4102.9	0.0	308456
	MW-12	5084.9	2.8	470616
	MW-13	6898.6	21.4	281631
	R MW-16	4218.6	21.9	113200

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
ϕ	ϕ	ϕ	ϕ	ϕ	3.90

Laboratory Samples Collected

Match names and times from here on labels and chain of custody form

FY Treated Eff (H_2O)	FY Raw (H_2O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)
0855	0850	1005	—	0950

Bottle Kits Remaining: _____ Tedlar Bags Remaining: _____

[1]Only found on the oxidizer panel screen
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Former Y O&M

Date: 12/18/24

Compound Vapor Measurements

Time	Sample Point	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)	Notes
1025	SVE 1	6.6	786.45	—	—	Manometer not working
	SVE 2	NM				Line Closed
	SVE 3	NM				Line Closed
	Combined Influent	~~6.6~~ PW				
	Oxidizer Effluent	0.7 ppm				

Field Measurements

GW Measurements

Time	Sample Point	Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)
1130	RW-1	ϕ	NM 3029 PW ~~3704~~	NM NM
1135	RW-2	ϕ	431	NM
1035	RW-3	ϕ	450 5	NM
1040	RW-4	ϕ	990	NM
1030	BW-7R	ϕ	3079	NM
	BW-8			
1015	MW-11	ϕ	3117	.60
1025	MW-12	ϕ	(2816 ↑ ~~5154~~	NM
1020	MW-13	ϕ		NM
1010	MW-16	~~3.0~~ ϕ	~~3.0~~ 9.7	3.0

Vapor Measurements

	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)
RW-1-S	—	51.57	—	—
RW-1-I	—	42.17	—	—
RW-1-D	—	43.57	—	—
RW-2-S	—	55.76	—	—
RW-2-I	—	43.35	—	—
RW-2-D	—	54.37	—	—
RW-3-S	NM			closed
RW-3-I	NM			closed
RW-3-D	—	60.21	—	—
RW-4-S	—	64.77	—	—
RW-4-I	—	54.07	—	—
RW-4-D	—	56.15	—	—
BW-7R	NM			Valve Closed
BW-8-S	—	—	—	—
BW-8-I	—	—	—	—
BW-8-D	—	—	—	—
MW-11	NM			Valve Closed
MW-12	NM			Valve Closed
MW-13	NM			Valve Closed
MW-16	NM			Valve Closed

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)
ϕ	ϕ	ϕ	ϕ

[1]Only found on the oxidizer main screen, not the H2K HMI
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

* only Collected PID & Vacuum Measurements

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	**Date/Time on Site:** 12/27/2024 11:30

Compound Readings

Service Gas Meter (cf): (take photo)	**Service Electric Meter (kWh):** (take photo)

Oxidizer [Oxidizer Screen]

Oxidizer Hours[1]	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)

DPE Blower Information [HMI Screen]

Vacuum (in H_2O)[2]	Temp (°F)[2]	Flow (SCFM)[2]	Hours[3]	Speed (Hz)[3]

Motor Control (Hours)

DTA Blower[3]	Moisture Sep Transfer Pump[3]	Discharge Pump[3]

Groundwater Treatment Totals

Flow Total from HMI (gal)	Flow Total from Physical Meter (gal)	Flow Rate from Physical Meter (gpm)

Groundwater Well Information [HMI]

Time Recorded	Well	Pump Hours[3]	Well Level (ft abv trs)[5]	Flow Total[4]
	RW-1			
	RW-2			
	RW-3			
	RW-4			
	BW-7R			
	MW-11			
	MW-12			
	MW-13			
	MW-16			

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**

Laboratory Samples Collected
Match names and times from here on labels and chain of custody form

FY Treated Eff (H_2O)	FY Raw (H_2O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)

Bottle Kits Remaining: _____ Tedlar Bags Remaining: _____

[1]Only found on the oxidizer panel screen
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Former Y O&M

Date: 12/27/2024

Compound Vapor Measurements

Time	Sample Point	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)	Notes
11:40	SVE 1	1560			61.3 - 65.0	Vacuum Fluctuating
	SVE 2	Closed (NM)				
	SVE 3	Closed (NM)				
	Combined Influent	See (SVE-1)				
	Oxidizer Effluent	8.0				
	DTA	45.6				

Field Measurements

GW Measurements

Time	Sample Point	Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)
	RW-1			
	RW-2			
	RW-3			
	RW-4			
	BW-7R			
	BW-8			
	MW-11			
	MW-12			
	MW-13			
	MW-16			

Vapor Measurements

	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)
RW-1-S	170.8	NM		36.9
RW-1-I	198.7	NM		37.0
RW-1-D	754.8	NM		36.6
RW-2-S	1357	NM		39.6
RW-2-I	1627	NM		38.2
RW-2-D	2411	NM		38.2
RW-3-S	Closed			
RW-3-I	Closed			
RW-3-D	1643	NM		44.4
RW-4-S	30.0	NM		46.3
RW-4-I	48.8	NM		44.8
RW-4-D	1063	NM		45.0
BW-7R	NM Closed			
BW-8-S	31.4	NM		37.3
BW-8-I	58.2	NM		37.2
BW-8-D	738.1	NM		37.3
MW-11	NM Closed			
MW-12	NM (Car Parked over)			
MW-13	NM Closed			
MW-16	NM Closed			

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

[2]Process Transmitter Information screen

[3]Motor Control screen (1, 2, or 3)

[4]Flow Totals

[5]Well Level Information

[6]Record old Pulsafeeder and new meter

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: Rey Villanueva / Ted Del Prete	Date/Time on Site: 7/2/25 0730

Compound Readings

Service Gas Meter (cf): (take photo)	Service Electric Meter (kWh): (take photo)
8639	11252

Oxidizer [Oxidizer Screen]

Oxidizer Hours[1]	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)
3318	ϕ	1404	1345	67.5

DPE Blower Information [HMI Screen]

Vacuum (in H_2O)[2]	Temp (°F)[2]	Flow (SCFM)[2]	Hours[3]	Speed (Hz)[3]
65.4	102.1	603	6012.5	35 Hz

Motor Control (Hours)

DTA Blower[3]	Moisture Sep Transfer Pump[3]	Discharge Pump[3]
8164.4	185.5	1892.7

Groundwater Treatment Totals

Flow Total from HMI (gal)	Flow Total from Physical Meter (gal)	Flow Rate from Physical Meter (gpm)
27847 ~~5247~~ RV	5242	21

Groundwater Well Information [HMI]

Time Recorded	Well	Pump Hours[3]	Well Level (ft abv trs)[5]	Flow Total[4]
0750	RW-1	3791.5	0.0	315270
	RW-2	2802.3	7.3	81675
	RW-3	5129.2	32.4	423217
	R RW-4	6184.9	33.3	606055
	R BW-7R	4254.7	13.6	323106
	R MW-11	4463.3	0.0	318619
	MW-12	5084.9	10.4	470616
	MW-13	6898.6	21.7	281631
	R MW-16	4578.9	21.8	114938

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
			ϕ	ϕ	3.90

Laboratory Samples Collected
Match names and times from here on labels and chain of custody form

FY Treated Eff (H_2O)	FY Raw (H_2O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)
0950	0940	1105	1055 —	—

Bottle Kits Remaining: _____ Tedlar Bags Remaining: _____

[1]Only found on the oxidizer panel screen
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Former Y O&M

Date: 1/2/2025

Compound Vapor Measurements

Time	Sample Point	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)	Notes
	SVE 1	373.0	1014		61.1	
	SVE 2	Closed (NM)				
	SVE 3	Closed (NM)				
	Combined Influent	See (SVE-1)				
	Oxidizer Effluent	15.1				

Field Measurements

Time	Sample Point	GW Measurements: Pressure (psi)	GW Measurements: Total Flow (gal)	GW Measurements: Flow Rate (gpm)	Vapor Measurements	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)
1220	RW-1	Ø	No Meter NM	NM	RW-1-S	94.6	~~35.37~~ 59.39 IN	3237	36.3
					RW-1-I	73.8	37.37	2521	36.9
					RW-1-D	378.1	61.38	3641	36.4
1243	RW-2	Ø	430	NM	RW-2-S	1168	56.72	3525	40.4
					RW-2-I	961.8	50.06	4082	38.6
					RW-2-D	1913	47.19	3812	38.9
1250	RW-3	Ø	4582	NM	RW-3-S	Closed (NM)			
					RW-3-I	Closed (NM)			
					RW-3-D	675.3	58.14	3976	46.5
1315	RW-4	Ø	996	NM	RW-4-S	20.6	68.44	4128	47.6
					RW-4-I	62.9	63.90	3962	46.4
					RW-4-D	652.7	67.91	3878	46.3
1325	BW-7R	Ø	3227	NM	BW-7R	Closed (NM)			
	BW-8				BW-8-S	370.4	~~25.78~~ TOP 69.07	1040	34.7
					BW-8-I	475.4	~~22.71~~ TOP 40.45	1776	34.9
					BW-8-D	442.3	~~19.27~~ TOP 49.12	2035	34.6
1130	MW-11	Ø	3239	.25	MW-11	NM Closed			
1140	MW-12	Ø	5154	NM	MW-12	NM Closed			
1135	MW-13	Ø	2816	NM	MW-13	NM Closed			
1120	MW-16	Ø	2451	1.5	MW-16	NM Closed			

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]Only found on the oxidizer main screen, not the H2K HMI
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

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, D. Vasquez	**Date/Time on Site:** 01/23/25 12:20

Compound Readings

Service Gas Meter (cf): (take photo) 83785	**Service Electric Meter (kWh): (take photo)** 020280

Oxidizer [Oxidizer Screen]

Oxidizer Hours[1]	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)
6358	0.0	1399	1336	65.2

DPE Blower Information [HMI Screen]

Vacuum (in H_2O)[2]	Temp (°F)[2]	Flow (SCFM)[2]	Hours[3]	Speed (Hz)[3]
72.4	103.8	584	6472.9	35.20

Motor Control (Hours)

DTA Blower[3]	Moisture Sep Transfer Pump[3]	Discharge Pump[3]
8671.5	330.2	1939.0

Groundwater Treatment Totals

Flow Total from HMI (gal)	Flow Total from Physical Meter (gal)	Flow Rate from Physical Meter (gpm)
28281 x100	562350.64	14.4

Groundwater Well Information [HMI]

Time Recorded	Well	Pump Hours[3]	Well Level (ft abv trs)[5]	Flow Total[4]
12:46	RW-1	3791.5	0.0	315470
	RW-2	2802.4	7.8	81687
	RW-3	5129.2	32.3	423722
	RW-4	6213.8	33.1	606055
	BW-7R	4321.5	6.0	343678
	MW-11	4972.7	0.0	330757
	MW-12	5084.9	12.0	470616
	MW-13	6898.6	21.5	281631
	MW-16	5088.3	21.4	156955

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	—	—	4.60

Laboratory Samples Collected
Match names and times from here on labels and chain of custody form

FY Treated Eff (H_2O)	FY Raw (H_2O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)
8:14 1/24	8:08 1/24	13:34 1/23	13:42 1/23	Not Sampled

Bottle Kits Remaining: _____ Tedlar Bags Remaining: _____

[1]Only found on the oxidizer panel screen
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

Former Y O&M

Date: 01/23/25

Compound Vapor Measurements

Time	Sample Point	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)	Notes
13:20	SVE 1	918.9	3003.62	8605	67.3	Water in Pipe
	SVE 2	NM				
	SVE 3	NM				
	Combined Influent	See SVE-1				
	Oxidizer Effluent	5.2				
	DTA Effluent	0.8				

Field Measurements

GW Measurements

Time	Sample Point	Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)
	RW-1	—	No Flow Meter	No Pump
	RW-2	—	0043092	No Flow
	RW-3	0	0450556	Pump off
	RW-4	0	0099002	Pump off
	BW-7R	5	0343161	5.10
	BW-8			
	MW-11	0	0335919	0.16
	MW-12	135	0515412	Gate Valve Closed
	MW-13	0	0281604	Pump off
	MW-16	0	0287423	1.27

Vapor Measurements

	Concentration (ppm)	Air Flow (scfm)	Velocity (fps)	Vacuum (in H_2O)
RW-1-S	153.5	58.36	2675	37.4
RW-1-I	154.7	32.98	1512	38.2
RW-1-D	640.0	56.85	2606	37.4
RW-2-S	1086	60.57	2776	41.9
RW-2-I	1258	56.05	2569	40.2
RW-2-D	1758	49.87	2286	40.4
RW-3-S	NM (Valve Closed)			
RW-3-I	NM (Valve Closed)			
RW-3-D	979.9	60.00	2750	49.4
RW-4-S	NM (Valve Closed)			
RW-4-I	27.5	70.07	3212	50.0
RW-4-D	500.7	59.61	2732	50.7
BW-7R	NM (Valve closed)			
BW-8-S	24.1	73.86	3386	40.1
BW-8-I	30.9	51.79	2374	40.0
BW-8-D	657.7	51.57	2364	39.9
MW-11	NM (Valve Closed)			
MW-12	NM (Valve Closed)			
MW-13	NM (Valve Closed			
MW-16	NM (Valve closed)			

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	0	0	0

[1]Only found on the oxidizer main screen, not the H2K HMI
[2]Process Transmitter Information screen
[3]Motor Control screen (1, 2, or 3)
[4]Flow Totals
[5]Well Level Information
[6]Record old Pulsafeeder and new meter

09/26/24 Former Y Station BC

7:22 BC onsite, Purpose: Continue Collecting Wellhead Measurements and System O&M.
Weather: 62°F, Sunny

7:31 Begin Calibrating PID SN: 592-926669
Zero Cal. (Fresh Air) = 0.0ppm
100 ppm Isobutylene = 100.0ppm

7:36 Begin Collecting Wellhead Measurements.

X MW-12 Vault Flooded to the Top. Pumped out water, Turned off pump and Closed Gate Valve. Collected Air + Water Samples @ System.

* No Flow @ RW-3, Opened Faucet Tap, No Flow.

12:06 Completed O&M and Wellhead Measurements, All Samples on Ice, BC offsite. Locked & Secured site.

BC
9/26/24

12/04/24 Former Y Station BC

10:00 BC onsite, Purpose: O&M.

10:05 Begin Collecting Wellhead Measurements.
Completed Collecting Wellhead Measurements and O&M @ System.
Removed ARV's From all wells except ~~From~~ For RW-2.
R Installed Cap over Threads.
Replaced Dessicant on all Transducer Cables.

17:20 Locked & Secured ~~FS~~ site, All Samples on Ice, BC offsite.

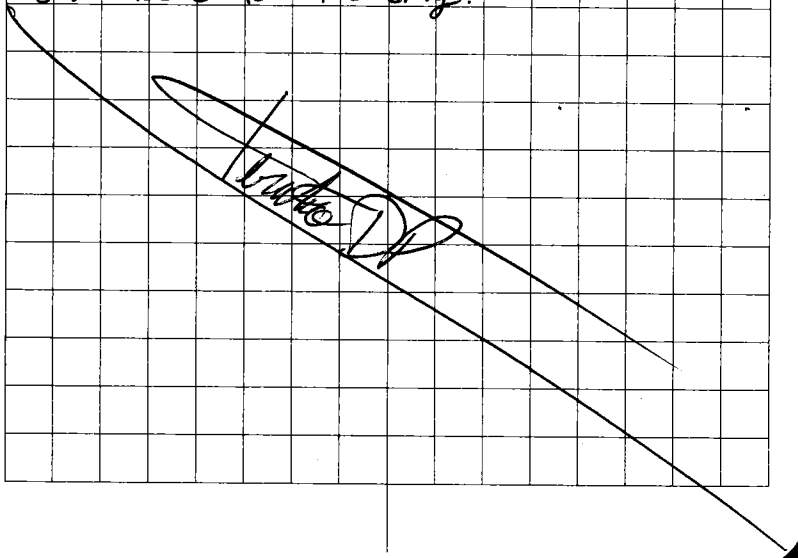
12/04/24

12/16/24 GWM TD+GH

0940	TD+GH on site 50° sunny
	Ben McNiel on site for oxidizes repair.
1000	placed cones on well vaults
1020	starting water level measurements
1023	@ MW-17
	collected WL + set sleeve.
11:00	@ MW-15
	collected WL + set sleeve.
11:40	@ MW-14
	collected WL + set sleeve.
12:12	@ BW-9
12:36	Set sleeve
13:48	@ BW-8 (331.51)
14:05	set sleeve
1419	@ BW10 (329.88)
1428	Set sleeve
1459	Calibrate YSI
1510	Sampled MW-11
1527	@ BW-7
1541	Set Sleeve
1547	@ BW-5 332.94
1558	Set sleeve

12/16/24 GWM TDP

1602	@ BW-6
	- no tether @ MW-6, TD went to harbor freight for zip ties and a weight (wrench) to attach hydrasleeve to tether.
1630	Called Grace to get TD in order to know where to set sleeve.
1640	↳ set @ ~ 340' bgs
1651	@ BW-4 333.08
1659	set sleeve
1709	@ BW 7R
1722	collect BW-7R sample
1743	@ MW-16
1754	Sampled MW-16.
1815	Done for the day.



12/17/24 GWM TDP

0935	@ MW-13
0955	YSI calibrated.
1009	Sampled MW-13
	flow meter off - turned off pump
1024	Move to MW-12, Pump off, will wait for Grace H. to sample. moving to RW-4
1045	MW-4
1100	Sampled MW-17
1112	@ MW-15
1122	Sampled MW-15
1130	@ MW-14
1136	Sampled MW-14
1150	@ BW-9
1155	Sampled BW-9
1200	Break for lunch + wait till 24-hr from setting BW-8
1342	@ BW ~~-10~~ TOP 8
1352	Sample BW ~~-10~~ TOP 8
1405	@ BW-10
1412	Sampled BW-10
1415	@ BW-7 ~~TD~~ screen: 284-349 ~345 (set)
	sleeve empty.
1520	@ BW-5

12/17/24 GWM TDP

1526	Sample BW-5
1530	back @ BW-7 to set sleeve.
1545	set @ ~346'
1600	@ BW-6, sleeve came up empty, tether is wet so set point was correct, however zip ties did not hold bag open in order to let it fill with water.
1630	set BW-6 sleeve Sampled BW-6
1655	@ RW-3 to try and see if pump will work, turned pump on, Grace H. switched on as well from panel. Did not work.
1705	@ RW-4
1740	sampled RW-4
1755	@ MW-12
1804	Sampled MW-12
1815	System Walkthrough, Changed DPE blower to 35Hz
1851	Site secured DBSA off site

12/10/24 O&M Well Measurements

0755 @ "Y" w. Ray.
Checked Service Electric Meter
Documented gas meter
Meter Readings & Compound Readings
Ground Water Treatment Totals &
Well Information, Laboratory Samples
Collected.
0830 Collection of Water Samples
0930 Collection/Setup - Vapor samples.
1020 Performed Vapor Readings.
MW16, MW13, MW12
Flow Meter not charging/no readings
1150 Charging Flow Meter again.
1200 Lunch (1200 - 1300)
1300 Returned to "Y" : recharge Flow Meter
"Flow Meter": Air Velocity Meter
1305 Calibrated "YSI/ProQuatro" meter
1310 Changed "YSI" batteries/Re: Low Charge
1345 Continued Flow Meter Readings.
RW-4: 1345
RW-1: 1407
RW-2: 1345
RW-3: 1414
1425 PID Readings.
1540 @ RW-7
1545 Sampled RW-7

1600 RW-7 sleeve not filled w. rep sample
Per Grace, added 2' to set length.

1635 RW-6
Sampled RW-6
~~1700~~
1730 Returned Field Kit to Compound.
1800 Dropped off settled data

12/27/24 Former Ystation BC

11:30 BC onsite, Purpose: Collect Wellhead PID Measurements and Vacuum Measurements.

13:26 Completed Collecting Vacuum & PID Measurements @ System and Wellheads. Locked & Secured Site, BC offsite.

BC
12/27/24

1/2/2025 O+M + BW-7 sampling TDP

0930	TDP on site.
0940	FY Raw samples taken.
	Rey V. was already on-site, took readings & filled out labels.
0950	FY Treated EF samples taken
1026	Deploy HS in BW-7
1055	FY Comb Inf sample taken.
1105	Oxidizer Effluent sample taken.
1120	MW-16 readings.
1135	MW-11 readings
1145	Break for lunch.
1230	Resume Work.
1238	BW-1 readings taken.
1257	BW-2 readings taken.
1312	RW-3 readings taken
1324	RW-4 readings taken, flow meter NR.
1350	replaced HS weight @ BW-6
	L> Still missing HS spring clip
	L> wrench connection had some rust, not very much, set @ same depth as previous.
1400	filling out COC's & making plan for what TDP will do tomorrow.
	L> BW-8, maybe ~~BW~~ BW-4 (call Grace), walk sample from RW-2, HS from BW-7.

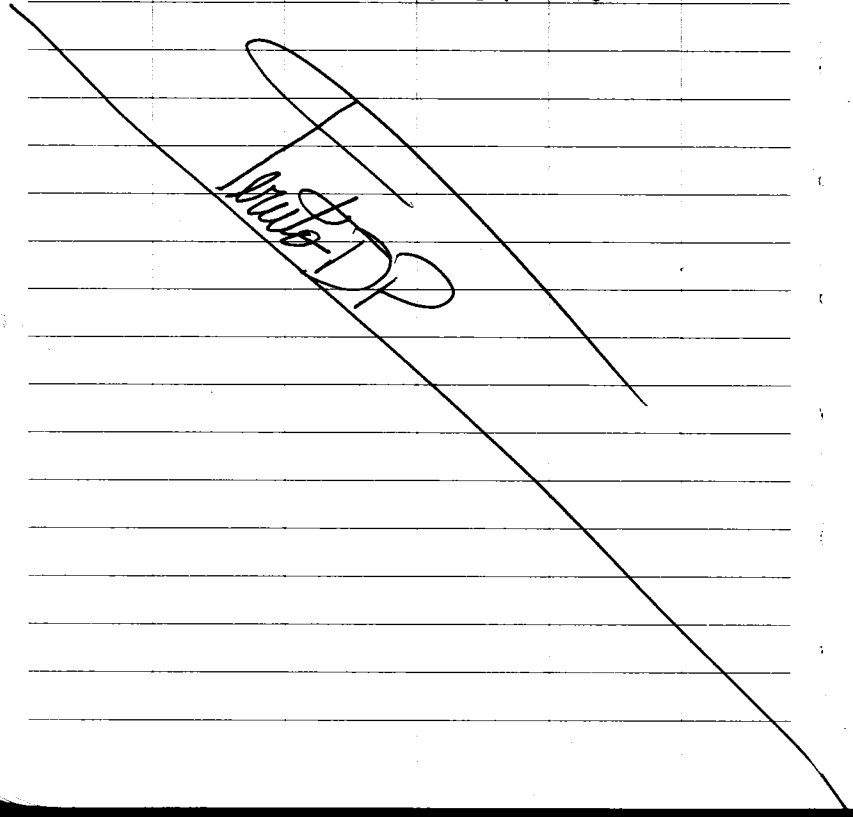
1/2/25 TDP

1425 Called Grace, will go check ~~BW-4~~ RW TDP to see if it is running, then compare readings from previous O+M event to see if any wells can be turned off.

1445 re-set "PULSAFEEDER" discharge flow meter magnet over x10 guage instead of x1 guage. Confirmed correct setting w/ Grace.

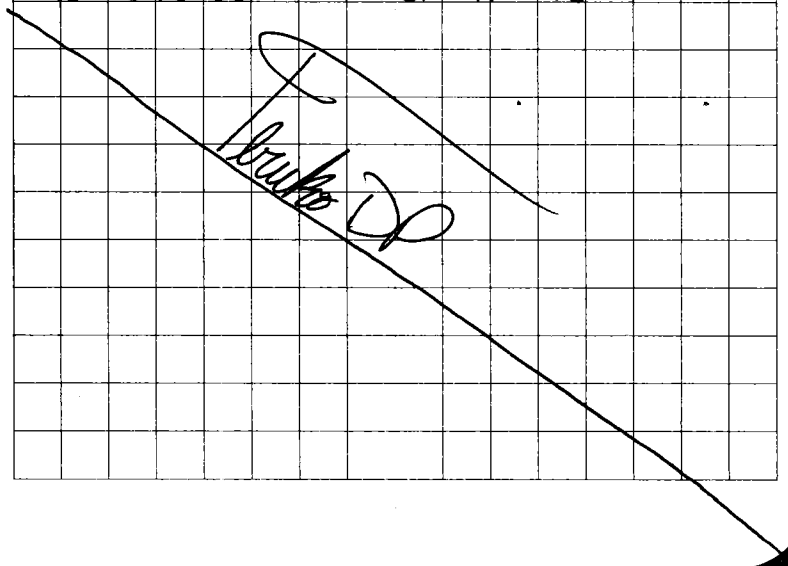
1514 Changed RW-2 to remote off + put the switch in Auto. Confirmed w/ Grace.

1550 Site secured. TDP off-site.



1/3/25 O+M + GW Sampling TDP

0715	TDP on site.
	26° H:62° L:25° Sunny ☀
0740	sampled RW-2.
	- did not bring YSI, no parameters taken.
	- called Grace to turn RW-2 on and off.
0800	@ BW-8 to collect readings.
0826	need vaccum bag, headed to compound.
0835	called Grace, need to get ~~SVE~~ DTA blower sample as well while @ compound.
0900	DTA blower sample taken.
0930	BW-8 readings collected
1000	closed RW-4S ~~V6~~ TDP SVE valve.
1065	@ BW-7 to collect sleeve + sample. Sleeve was empty, no sample.
1045	Site secured. TDP off-site.



01/23/25 Former Y Station BC/DV

12:20 BC + DV onsite. Purpose: O&M. Weather, 35°F Mostly Sunny. Begin Recording Data and Collecting Measurements @ System.

14:20 Cannon onsite with New Maxico Gas Company, Inspected Gas Meter, Found No Leaks. States with high gas use in winter, More odorant is being added to Gas Supply.

14:44 Cannon offsite.

14:45 Begin Collecting Wellhead Measurements.

16:50 Completed Collecting Wellhead Measurements. Locked & Secured Site, BC + DV offsite.

BC

1/23/25

01/24/25 Former Y Station BC/DV

7:15 BC + DV onsite, Purpose: Collect Water Treatment System Water Samples. Pump Site Sumps. Weather, 25°F Sunny.

* When Arrived onsite Water Treatment Container is Partially Flooded with Water.

Some Evidence of water on Float Switch on Clarifier. Retightened Cap to Float Switch.

Pumped ~8 gallons w/ Ryobi Pump From Floor of Container into Buckets.

Attempted to Pump 8" Sump North of Dominos, Pump giving alarm Code, Likely Impellor is Frozen.

Unable to Pump Site Sumps.

Called and Spoke w/ Grace on Problems encountered.

10:07 Shut Down Oxidizer and Water Treatment Equipment. Turned off Well Pumps.

Frozen Water Droplets observed above air Relief Valve on Treated Eff Line.

Adjusted Thermostat To 60°F from 55°F.

10:40 Locked and Secured site, All Samples on Ice.

BC + DV offsite. Adjusted SVE Container Thermostat to 60° From 50°

Appendix D

Laboratory Reports

DBS&A
a Geo-Logic Company

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 11/8/2024 4:58:40 PM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-14459-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

my EOL

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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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.

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
F2	MS/MSD RPD 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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
885-14459-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 10/30/2024 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.6°C and 15.0°C.

Receipt Exceptions
The Field Sampler was not listed on the Chain of Custody.

The container count for the following sample did not match what was listed on the Chain-of-Custody (COC): FY Raw FY Raw (885-14459-2).
The laboratory received 8 total containers, while the COC analysis request list requires 10 total containers.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 885-15124 recovered outside acceptance criteria, low biased, for Bromomethane. Since the associated samples were non-detect for the analyte(s), the data are reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-15133 and analytical batch 885-15178 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8011: The following sample was diluted due to the abundance of target analytes: FY Treated Eff (885-14459-1)

Method 8011: The following sample was diluted due to abundance of target analytes : FY Raw (885-14459-2). As such, surrogate recoveries are below the calibration range or are not reported, and 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.

HPLC/IC
Method 300_OF_28D_PREC: Due to the high concentration of Chloride and Sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 885-15114 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 885-14459-1 (Continued) Eurofins Albuquerque

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-14459-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Treated Eff
Lab Sample ID: 885-14459-1
Date Collected: 10/28/24 13:20
Matrix: Water
Date Received: 10/30/24 09:20

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			10/30/24 20:26	1
1,1,1-Trichloroethane	ND		1.0	0.081	ug/L			10/30/24 20:26	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.27	ug/L			10/30/24 20:26	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/30/24 20:26	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/30/24 20:26	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/30/24 20:26	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			10/30/24 20:26	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			10/30/24 20:26	1
1,2,3-Trichloropropane	ND		2.0	0.16	ug/L			10/30/24 20:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			10/30/24 20:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			10/30/24 20:26	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.59	ug/L			10/30/24 20:26	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			10/30/24 20:26	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			10/30/24 20:26	1
1,2-Dichloroethane (EDC)	**5.2**		1.0	0.30	ug/L			10/30/24 20:26	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/30/24 20:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			10/30/24 20:26	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			10/30/24 20:26	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			10/30/24 20:26	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L			10/30/24 20:26	1
1-Methylnaphthalene	**2.4**	**J**	4.0	2.0	ug/L			10/30/24 20:26	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			10/30/24 20:26	1
2-Butanone	**23**		10	2.0	ug/L			10/30/24 20:26	1
2-Chlorotoluene	ND		1.0	0.13	ug/L			10/30/24 20:26	1
2-Hexanone	**38**		10	1.8	ug/L			10/30/24 20:26	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			10/30/24 20:26	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			10/30/24 20:26	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			10/30/24 20:26	1
4-Methyl-2-pentanone	**8.4**	**J**	10	1.5	ug/L			10/30/24 20:26	1
Acetone	**42**		10	2.5	ug/L			10/30/24 20:26	1
Benzene	**2.8**		1.0	0.23	ug/L			10/30/24 20:26	1
Bromobenzene	ND		1.0	0.28	ug/L			10/30/24 20:26	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/30/24 20:26	1
Dibromochloromethane	ND		1.0	0.28	ug/L			10/30/24 20:26	1
Bromoform	ND		1.0	0.31	ug/L			10/30/24 20:26	1
Bromomethane	ND		3.0	1.0	ug/L			10/30/24 20:26	1
Carbon disulfide	ND		10	1.0	ug/L			10/30/24 20:26	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			10/30/24 20:26	1
Chlorobenzene	ND		1.0	0.46	ug/L			10/30/24 20:26	1
Chloroethane	ND		2.0	0.38	ug/L			10/30/24 20:26	1
Chloroform	ND		1.0	0.25	ug/L			10/30/24 20:26	1
Chloromethane	ND		3.0	0.41	ug/L			10/30/24 20:26	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/30/24 20:26	1
cis-1,3-Dichloropropene	ND		1.0	0.12	ug/L			10/30/24 20:26	1
Dibromomethane	ND		1.0	0.31	ug/L			10/30/24 20:26	1
Dichlorodifluoromethane	ND		1.0	0.26	ug/L			10/30/24 20:26	1
Ethylbenzene	ND		1.0	0.21	ug/L			10/30/24 20:26	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			10/30/24 20:26	1
Isopropylbenzene	ND		1.0	0.18	ug/L			10/30/24 20:26	1

Client Sample ID: FY Treated Eff
Lab Sample ID: 885-14459-1
Date Collected: 10/28/24 13:20
Matrix: Water
Date Received: 10/30/24 09:20

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			10/30/24 20:26	1
Methylene Chloride	ND		2.5	1.2	ug/L			10/30/24 20:26	1
n-Butylbenzene	ND		3.0	0.13	ug/L			10/30/24 20:26	1
N-Propylbenzene	ND		1.0	0.11	ug/L			10/30/24 20:26	1
Naphthalene	**2.6**		2.0	0.24	ug/L			10/30/24 20:26	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			10/30/24 20:26	1
Styrene	ND		1.0	0.14	ug/L			10/30/24 20:26	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			10/30/24 20:26	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			10/30/24 20:26	1
Toluene	**1.9**		1.0	0.25	ug/L			10/30/24 20:26	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			10/30/24 20:26	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			10/30/24 20:26	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			10/30/24 20:26	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			10/30/24 20:26	1
Vinyl chloride	ND		1.0	0.32	ug/L			10/30/24 20:26	1
Xylenes, Total	**2.5**		1.5	0.37	ug/L			10/30/24 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*10/30/24 20:26*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/30/24 20:26*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/30/24 20:26*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/30/24 20:26*	*1*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**0.15**		0.050	0.013	mg/L			10/30/24 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 270*		*10/30/24 13:00*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**1.4**	**D**	0.19	0.15	ug/L		11/01/24 11:16	11/04/24 17:08	20

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.7**	**F2**	1.0	0.58	mg/L		10/30/24 10:57	10/31/24 11:46	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.3	mg/L		10/30/24 10:57	10/31/24 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*46 - 159*	*10/30/24 10:57*	*10/31/24 11:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74**		10	5.0	mg/L			10/30/24 12:34	20
Sulfate	**45**		0.50	0.25	mg/L			10/30/24 12:03	1
Nitrate Nitrite as N	**1.7**		1.0	0.11	mg/L			10/30/24 16:45	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**460**		50	25	mg/L			11/01/24 08:15	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-14459-1

Client Sample ID: FY Raw
Date Collected: 10/28/24 13:00
Date Received: 10/30/24 09:20

Lab Sample ID: 885-14459-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.3	ug/L			10/30/24 21:15	5
1,1,1-Trichloroethane	ND		5.0	0.41	ug/L			10/30/24 21:15	5
1,1,2,2-Tetrachloroethane	ND		10	1.4	ug/L			10/30/24 21:15	5
1,1,2-Trichloroethane	ND		5.0	0.99	ug/L			10/30/24 21:15	5
1,1-Dichloroethane	ND		5.0	1.5	ug/L			10/30/24 21:15	5
1,1-Dichloroethene	ND		5.0	1.0	ug/L			10/30/24 21:15	5
1,1-Dichloropropene	ND		5.0	0.90	ug/L			10/30/24 21:15	5
1,2,3-Trichlorobenzene	ND		5.0	1.2	ug/L			10/30/24 21:15	5
1,2,3-Trichloropropane	ND		10	0.80	ug/L			10/30/24 21:15	5
1,2,4-Trichlorobenzene	ND		5.0	2.0	ug/L			10/30/24 21:15	5
1,2,4-Trimethylbenzene	**28**		5.0	0.61	ug/L			10/30/24 21:15	5
1,2-Dibromo-3-Chloropropane	ND		10	2.9	ug/L			10/30/24 21:15	5
1,2-Dibromoethane (EDB)	**20**		5.0	1.5	ug/L			10/30/24 21:15	5
1,2-Dichlorobenzene	ND		5.0	0.77	ug/L			10/30/24 21:15	5
1,2-Dichloroethane (EDC)	ND		5.0	1.5	ug/L			10/30/24 21:15	5
1,2-Dichloropropane	ND		5.0	1.0	ug/L			10/30/24 21:15	5
1,3,5-Trimethylbenzene	**31**		5.0	0.91	ug/L			10/30/24 21:15	5
1,3-Dichlorobenzene	ND		5.0	0.81	ug/L			10/30/24 21:15	5
1,3-Dichloropropane	ND		5.0	0.90	ug/L			10/30/24 21:15	5
1,4-Dichlorobenzene	ND		5.0	0.52	ug/L			10/30/24 21:15	5
1-Methylnaphthalene	**11**	**J**	20	10	ug/L			10/30/24 21:15	5
2,2-Dichloropropane	ND		10	1.3	ug/L			10/30/24 21:15	5
2-Butanone	**49**	**J**	50	10	ug/L			10/30/24 21:15	5
2-Chlorotoluene	ND		5.0	0.66	ug/L			10/30/24 21:15	5
2-Hexanone	**84**		50	9.0	ug/L			10/30/24 21:15	5
2-Methylnaphthalene	ND		20	10	ug/L			10/30/24 21:15	5
4-Chlorotoluene	ND		5.0	0.67	ug/L			10/30/24 21:15	5
4-Isopropyltoluene	ND		5.0	1.0	ug/L			10/30/24 21:15	5
4-Methyl-2-pentanone	**25**	**J**	50	7.5	ug/L			10/30/24 21:15	5
Acetone	**77**		50	13	ug/L			10/30/24 21:15	5
Benzene	**880**		50	11	ug/L			10/30/24 20:51	50
Bromobenzene	ND		5.0	1.4	ug/L			10/30/24 21:15	5
Bromodichloromethane	ND		5.0	1.0	ug/L			10/30/24 21:15	5
Dibromochloromethane	ND		5.0	1.4	ug/L			10/30/24 21:15	5
Bromoform	ND		5.0	1.6	ug/L			10/30/24 21:15	5
Bromomethane	ND		15	5.0	ug/L			10/30/24 21:15	5
Carbon disulfide	ND		50	5.0	ug/L			10/30/24 21:15	5
Carbon tetrachloride	ND		5.0	0.88	ug/L			10/30/24 21:15	5
Chlorobenzene	ND		5.0	2.3	ug/L			10/30/24 21:15	5
Chloroethane	ND		10	1.9	ug/L			10/30/24 21:15	5
Chloroform	ND		5.0	1.3	ug/L			10/30/24 21:15	5
Chloromethane	ND		15	2.1	ug/L			10/30/24 21:15	5
cis-1,2-Dichloroethene	ND		5.0	1.9	ug/L			10/30/24 21:15	5
cis-1,3-Dichloropropene	ND		5.0	0.58	ug/L			10/30/24 21:15	5
Dibromomethane	ND		5.0	1.5	ug/L			10/30/24 21:15	5
Dichlorodifluoromethane	ND		5.0	1.3	ug/L			10/30/24 21:15	5
Ethylbenzene	**10**		5.0	1.1	ug/L			10/30/24 21:15	5
Hexachlorobutadiene	ND		5.0	2.1	ug/L			10/30/24 21:15	5
Isopropylbenzene	**1.4**	**J**	5.0	0.91	ug/L			10/30/24 21:15	5

Client Sample ID: FY Raw **Lab Sample ID: 885-14459-2**
Date Collected: 10/28/24 13:00 **Matrix: Water**
Date Received: 10/30/24 09:20

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		5.0	2.0	ug/L			10/30/24 21:15	5
Methylene Chloride	ND		13	6.2	ug/L			10/30/24 21:15	5
n-Butylbenzene	ND		15	0.63	ug/L			10/30/24 21:15	5
N-Propylbenzene	ND		5.0	0.55	ug/L			10/30/24 21:15	5
Naphthalene	**19**		10	1.2	ug/L			10/30/24 21:15	5
sec-Butylbenzene	ND		5.0	0.72	ug/L			10/30/24 21:15	5
Styrene	ND		5.0	0.68	ug/L			10/30/24 21:15	5
tert-Butylbenzene	ND		5.0	1.2	ug/L			10/30/24 21:15	5
Tetrachloroethene (PCE)	ND		5.0	0.89	ug/L			10/30/24 21:15	5
Toluene	**590**		50	13	ug/L			10/30/24 20:51	50
trans-1,2-Dichloroethene	ND		5.0	0.97	ug/L			10/30/24 21:15	5
trans-1,3-Dichloropropene	ND		5.0	1.7	ug/L			10/30/24 21:15	5
Trichloroethene (TCE)	ND		5.0	1.0	ug/L			10/30/24 21:15	5
Trichlorofluoromethane	ND		5.0	0.79	ug/L			10/30/24 21:15	5
Vinyl chloride	ND		5.0	1.6	ug/L			10/30/24 21:15	5
Xylenes, Total	**470**		7.5	1.9	ug/L			10/30/24 21:15	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*10/30/24 20:51*	*50*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*10/30/24 21:15*	*5*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/30/24 20:51*	*50*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/30/24 21:15*	*5*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/30/24 20:51*	*50*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/30/24 21:15*	*5*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/30/24 20:51*	*50*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/30/24 21:15*	*5*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**6.3**		0.050	0.013	mg/L			10/30/24 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*15 - 270*		*10/30/24 13:23*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**210**		19	15	ug/L		11/01/24 11:16	11/05/24 18:08	2000

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.9**		1.0	0.58	mg/L		10/30/24 10:57	10/31/24 12:22	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.3	mg/L		10/30/24 10:57	10/31/24 12:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*46 - 159*	*10/30/24 10:57*	*10/31/24 12:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**76**		10	5.0	mg/L			10/30/24 12:54	20
Sulfate	**46**		0.50	0.25	mg/L			10/30/24 12:44	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-14459-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Raw
Lab Sample ID: 885-14459-2
Date Collected: 10/28/24 13:00
Matrix: Water
Date Received: 10/30/24 09:20

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	1.5		1.0	0.11	mg/L			10/30/24 16:56	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	460		50	25	mg/L			11/01/24 08:15	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-14459-1

Client Sample ID: FY OX Eff
Date Collected: 10/28/24 12:52
Date Received: 10/30/24 09:20
Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-14459-3
Matrix: Air

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	54		5.0	1.3	ug/L			10/30/24 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*15 - 412*		*10/30/24 11:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.55		0.10	0.018	ug/L			10/30/24 11:49	1
Ethylbenzene	1.4		0.10	0.014	ug/L			10/30/24 11:49	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			10/30/24 11:49	1
Toluene	5.2		0.10	0.021	ug/L			10/30/24 11:49	1
Xylenes, Total	8.1		0.20	0.031	ug/L			10/30/24 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/30/24 11:49*	*1*

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-14459-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Comb Inf

Lab Sample ID: 885-14459-4
Matrix: Air
Date Collected: 10/28/24 12:45
Date Received: 10/30/24 09:20
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	4600		250	66	ug/L			10/30/24 12:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 412*		*10/30/24 12:36*	*50*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	32		5.0	0.92	ug/L			10/30/24 12:36	50
Ethylbenzene	27		5.0	0.70	ug/L			10/30/24 12:36	50
Methyl-tert-butyl Ether (MTBE)	ND		13	2.2	ug/L			10/30/24 12:36	50
Toluene	210		5.0	1.0	ug/L			10/30/24 12:36	50
Xylenes, Total	120		10	1.6	ug/L			10/30/24 12:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/30/24 12:36*	*50*

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-14459-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: Trip Blank
Lab Sample ID: 885-14459-5
Date Collected: 10/28/24 00:00
Matrix: Water
Date Received: 10/30/24 09:20

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			10/30/24 20:02	1
1,1,1-Trichloroethane	ND		1.0	0.081	ug/L			10/30/24 20:02	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.27	ug/L			10/30/24 20:02	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/30/24 20:02	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/30/24 20:02	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/30/24 20:02	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			10/30/24 20:02	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			10/30/24 20:02	1
1,2,3-Trichloropropane	ND		2.0	0.16	ug/L			10/30/24 20:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			10/30/24 20:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			10/30/24 20:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.59	ug/L			10/30/24 20:02	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			10/30/24 20:02	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			10/30/24 20:02	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			10/30/24 20:02	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/30/24 20:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			10/30/24 20:02	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			10/30/24 20:02	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			10/30/24 20:02	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L			10/30/24 20:02	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			10/30/24 20:02	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			10/30/24 20:02	1
2-Butanone	ND		10	2.0	ug/L			10/30/24 20:02	1
2-Chlorotoluene	ND		1.0	0.13	ug/L			10/30/24 20:02	1
2-Hexanone	ND		10	1.8	ug/L			10/30/24 20:02	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			10/30/24 20:02	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			10/30/24 20:02	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			10/30/24 20:02	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			10/30/24 20:02	1
Acetone	ND		10	2.5	ug/L			10/30/24 20:02	1
Benzene	ND		1.0	0.23	ug/L			10/30/24 20:02	1
Bromobenzene	ND		1.0	0.28	ug/L			10/30/24 20:02	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/30/24 20:02	1
Dibromochloromethane	ND		1.0	0.28	ug/L			10/30/24 20:02	1
Bromoform	ND		1.0	0.31	ug/L			10/30/24 20:02	1
Bromomethane	ND		3.0	1.0	ug/L			10/30/24 20:02	1
Carbon disulfide	ND		10	1.0	ug/L			10/30/24 20:02	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			10/30/24 20:02	1
Chlorobenzene	ND		1.0	0.46	ug/L			10/30/24 20:02	1
Chloroethane	ND		2.0	0.38	ug/L			10/30/24 20:02	1
Chloroform	ND		1.0	0.25	ug/L			10/30/24 20:02	1
Chloromethane	ND		3.0	0.41	ug/L			10/30/24 20:02	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/30/24 20:02	1
cis-1,3-Dichloropropene	ND		1.0	0.12	ug/L			10/30/24 20:02	1
Dibromomethane	ND		1.0	0.31	ug/L			10/30/24 20:02	1
Dichlorodifluoromethane	ND		1.0	0.26	ug/L			10/30/24 20:02	1
Ethylbenzene	ND		1.0	0.21	ug/L			10/30/24 20:02	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			10/30/24 20:02	1
Isopropylbenzene	ND		1.0	0.18	ug/L			10/30/24 20:02	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-14459-1

Client Sample ID: Trip Blank
Date Collected: 10/28/24 00:00
Date Received: 10/30/24 09:20

Lab Sample ID: 885-14459-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			10/30/24 20:02	1
Methylene Chloride	ND		2.5	1.2	ug/L			10/30/24 20:02	1
n-Butylbenzene	ND		3.0	0.13	ug/L			10/30/24 20:02	1
N-Propylbenzene	ND		1.0	0.11	ug/L			10/30/24 20:02	1
Naphthalene	ND		2.0	0.24	ug/L			10/30/24 20:02	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			10/30/24 20:02	1
Styrene	ND		1.0	0.14	ug/L			10/30/24 20:02	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			10/30/24 20:02	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			10/30/24 20:02	1
Toluene	ND		1.0	0.25	ug/L			10/30/24 20:02	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			10/30/24 20:02	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			10/30/24 20:02	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			10/30/24 20:02	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			10/30/24 20:02	1
Vinyl chloride	ND		1.0	0.32	ug/L			10/30/24 20:02	1
Xylenes, Total	ND		1.5	0.37	ug/L			10/30/24 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*10/30/24 20:02*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/30/24 20:02*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/30/24 20:02*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/30/24 20:02*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0094	0.0075	ug/L		11/01/24 11:16	11/01/24 20:01	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-15124/6
Matrix: Water
Analysis Batch: 15124

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			10/30/24 11:56	1
1,1,1-Trichloroethane	ND		1.0	0.081	ug/L			10/30/24 11:56	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.27	ug/L			10/30/24 11:56	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/30/24 11:56	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/30/24 11:56	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			10/30/24 11:56	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			10/30/24 11:56	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			10/30/24 11:56	1
1,2,3-Trichloropropane	ND		2.0	0.16	ug/L			10/30/24 11:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			10/30/24 11:56	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			10/30/24 11:56	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.59	ug/L			10/30/24 11:56	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			10/30/24 11:56	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			10/30/24 11:56	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			10/30/24 11:56	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			10/30/24 11:56	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			10/30/24 11:56	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			10/30/24 11:56	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			10/30/24 11:56	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L			10/30/24 11:56	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			10/30/24 11:56	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			10/30/24 11:56	1
2-Butanone	ND		10	2.0	ug/L			10/30/24 11:56	1
2-Chlorotoluene	ND		1.0	0.13	ug/L			10/30/24 11:56	1
2-Hexanone	ND		10	1.8	ug/L			10/30/24 11:56	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			10/30/24 11:56	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			10/30/24 11:56	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			10/30/24 11:56	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			10/30/24 11:56	1
Acetone	ND		10	2.5	ug/L			10/30/24 11:56	1
Benzene	ND		1.0	0.23	ug/L			10/30/24 11:56	1
Bromobenzene	ND		1.0	0.28	ug/L			10/30/24 11:56	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/30/24 11:56	1
Dibromochloromethane	ND		1.0	0.28	ug/L			10/30/24 11:56	1
Bromoform	ND		1.0	0.31	ug/L			10/30/24 11:56	1
Bromomethane	ND		3.0	1.0	ug/L			10/30/24 11:56	1
Carbon disulfide	ND		10	1.0	ug/L			10/30/24 11:56	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			10/30/24 11:56	1
Chlorobenzene	ND		1.0	0.46	ug/L			10/30/24 11:56	1
Chloroethane	ND		2.0	0.38	ug/L			10/30/24 11:56	1
Chloroform	ND		1.0	0.25	ug/L			10/30/24 11:56	1
Chloromethane	ND		3.0	0.41	ug/L			10/30/24 11:56	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			10/30/24 11:56	1
cis-1,3-Dichloropropene	ND		1.0	0.12	ug/L			10/30/24 11:56	1
Dibromomethane	ND		1.0	0.31	ug/L			10/30/24 11:56	1
Dichlorodifluoromethane	ND		1.0	0.26	ug/L			10/30/24 11:56	1
Ethylbenzene	ND		1.0	0.21	ug/L			10/30/24 11:56	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			10/30/24 11:56	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-15124/6
Matrix: Water
Analysis Batch: 15124

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.18	ug/L			10/30/24 11:56	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			10/30/24 11:56	1
Methylene Chloride	ND		2.5	1.2	ug/L			10/30/24 11:56	1
n-Butylbenzene	ND		3.0	0.13	ug/L			10/30/24 11:56	1
N-Propylbenzene	ND		1.0	0.11	ug/L			10/30/24 11:56	1
Naphthalene	ND		2.0	0.24	ug/L			10/30/24 11:56	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			10/30/24 11:56	1
Styrene	ND		1.0	0.14	ug/L			10/30/24 11:56	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			10/30/24 11:56	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			10/30/24 11:56	1
Toluene	ND		1.0	0.25	ug/L			10/30/24 11:56	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			10/30/24 11:56	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			10/30/24 11:56	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			10/30/24 11:56	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			10/30/24 11:56	1
Vinyl chloride	ND		1.0	0.32	ug/L			10/30/24 11:56	1
Xylenes, Total	ND		1.5	0.37	ug/L			10/30/24 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*10/30/24 11:56*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/30/24 11:56*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/30/24 11:56*	*1*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*10/30/24 11:56*	*1*

Lab Sample ID: LCS 885-15124/5
Matrix: Water
Analysis Batch: 15124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	22.1		ug/L		110	70 - 130		
Benzene			20.1	23.3		ug/L		116	70 - 130		
Chlorobenzene			20.1	20.8		ug/L		103	70 - 130		
Toluene			20.2	20.3		ug/L		101	70 - 130		
Trichloroethene (TCE)			20.2	21.8		ug/L		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*113*		*70 - 130*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-15117/6
Matrix: Air
Analysis Batch: 15117

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 [C6 - C10]	ND		5.0	1.3	ug/L			10/30/24 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 412*		*10/30/24 11:26*	*1*

Lab Sample ID: LCS 885-15117/4
Matrix: Air
Analysis Batch: 15117

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 [C6 - C10]			50.0	53.7		ug/L		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*206*		*15 - 412*

Lab Sample ID: 885-14459-3 DU
Matrix: Air
Analysis Batch: 15117

Client Sample ID: FY OX Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	54			54.5		ug/L				0.9	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*15 - 412*

Lab Sample ID: MB 885-15134/6
Matrix: Water
Analysis Batch: 15134

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 [C6 - C10]	ND		0.050	0.013	mg/L			10/30/24 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 270*		*10/30/24 11:26*	*1*

Lab Sample ID: LCS 885-15134/4
Matrix: Water
Analysis Batch: 15134

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 [C6 - C10]			0.500	0.537		mg/L		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*206*		*15 - 270*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-14459-1 MS
Matrix: Water
Analysis Batch: 15134

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	0.15		0.500	0.706		mg/L		111	41 - 148

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*210*		*15 - 270*

Lab Sample ID: 885-14459-1 MSD
Matrix: Water
Analysis Batch: 15134

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	0.15		0.500	0.657		mg/L		101	41 - 148	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*212*		*15 - 270*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-15118/6
Matrix: Air
Analysis Batch: 15118

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10	0.018	ug/L			10/30/24 11:26	1
Ethylbenzene	ND		0.10	0.014	ug/L			10/30/24 11:26	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			10/30/24 11:26	1
Toluene	ND		0.10	0.021	ug/L			10/30/24 11:26	1
Xylenes, Total	ND		0.20	0.031	ug/L			10/30/24 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/30/24 11:26*	*1*

Lab Sample ID: LCS 885-15118/5
Matrix: Air
Analysis Batch: 15118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.00	2.05		ug/L		102	70 - 130
Ethylbenzene	2.00	2.12		ug/L		106	70 - 130
m&p-Xylene	4.00	4.22		ug/L		105	70 - 130
Methyl-tert-butyl Ether (MTBE)	2.00	2.00		ug/L		100	70 - 130
o-Xylene	2.00	2.06		ug/L		103	70 - 130
Toluene	2.00	2.11		ug/L		105	70 - 130
Xylenes, Total	6.00	6.27		ug/L		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-14459-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 885-14459-3 DU
Matrix: Air
Analysis Batch: 15118

Client Sample ID: FY OX Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Benzene	0.55			0.553		ug/L				0.05	20
Ethylbenzene	1.4			1.35		ug/L				0.9	20
Methyl-tert-butyl Ether (MTBE)	ND			ND		ug/L				NC	20
Toluene	5.2			5.20		ug/L				0.4	20
Xylenes, Total	8.1			8.14		ug/L				0.1	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-15239/3-A
Matrix: Water
Analysis Batch: 15245

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15239

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0080	ug/L		11/01/24 11:16	11/01/24 18:21	1

Lab Sample ID: LCS 885-15239/4-A
Matrix: Water
Analysis Batch: 15245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15239

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)			0.100	0.101		ug/L		101	70 - 130		

Lab Sample ID: MRL 885-15239/1-A
Matrix: Water
Analysis Batch: 15245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15239

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)			0.0100	0.00825	J	ug/L		82	60 - 140		

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-15133/1-A
Matrix: Water
Analysis Batch: 15178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.58	mg/L		10/30/24 10:57	10/31/24 11:09	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.3	mg/L		10/30/24 10:57	10/31/24 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*46 - 159*	*10/30/24 10:57*	*10/31/24 11:09*	*1*

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 885-15133/2-A
Matrix: Water
Analysis Batch: 15178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15133

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			2.50	3.18		mg/L		127	57 - 147		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*109*		*46 - 159*

Lab Sample ID: 885-14459-1 MS
Matrix: Water
Analysis Batch: 15178

Client Sample ID: FY Treated Eff
Prep Type: Total/NA
Prep Batch: 15133

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	1.7	F2	2.50	5.32		mg/L		146	33 - 161		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*126*		*46 - 159*

Lab Sample ID: 885-14459-1 MSD
Matrix: Water
Analysis Batch: 15178

Client Sample ID: FY Treated Eff
Prep Type: Total/NA
Prep Batch: 15133

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	1.7	F2	2.50	4.23	F2	mg/L		102	33 - 161	23	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*103*		*46 - 159*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-15114/4
Matrix: Water
Analysis Batch: 15114

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			10/30/24 09:38	1
Sulfate	ND		0.50	0.25	mg/L			10/30/24 09:38	1

Lab Sample ID: LCS 885-15114/5
Matrix: Water
Analysis Batch: 15114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	5.06		mg/L		101	90 - 110		
Sulfate			10.0	10.1		mg/L		101	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 885-15114/3
Matrix: Water
Analysis Batch: 15114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.545		mg/L		109	50 - 150
Sulfate	0.500	0.542		mg/L		108	50 - 150

Lab Sample ID: MB 885-15115/4
Matrix: Water
Analysis Batch: 15115

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	0.022	mg/L			10/30/24 09:38	1

Lab Sample ID: LCS 885-15115/5
Matrix: Water
Analysis Batch: 15115

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	2.50	2.66		mg/L		107	90 - 110
Nitrite as N	1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: MRL 885-15115/3
Matrix: Water
Analysis Batch: 15115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.104		mg/L		104	50 - 150
Nitrite as N	0.100	0.104		mg/L		104	50 - 150

Lab Sample ID: 885-14459-1 MS
Matrix: Water
Analysis Batch: 15115

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	1.7		2.50	4.37		mg/L		108	80 - 120
Nitrite as N	ND		1.00	0.881		mg/L		88	80 - 120

Lab Sample ID: 885-14459-1 MSD
Matrix: Water
Analysis Batch: 15115

Client Sample ID: FY Treated Eff
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	1.7		2.50	4.38		mg/L		109	80 - 120	0	20
Nitrite as N	ND		1.00	0.882		mg/L		88	80 - 120	0	20

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-15222/1
Matrix: Water
Analysis Batch: 15222

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	25	mg/L			11/01/24 08:15	1

Method: 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 885-15222/2
Matrix: Water
Analysis Batch: 15222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	945		mg/L		95	80 - 120		

Lab Sample ID: 885-14459-2 DU
Matrix: Water
Analysis Batch: 15222

Client Sample ID: FY Raw
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	460			500		mg/L				8	10

GC/MS VOA

Analysis Batch: 15124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14459-1	FY Treated Eff	Total/NA	Water	8260B	
885-14459-2	FY Raw	Total/NA	Water	8260B	
885-14459-2	FY Raw	Total/NA	Water	8260B	
885-14459-5	Trip Blank	Total/NA	Water	8260B	
MB 885-15124/6	Method Blank	Total/NA	Water	8260B	
LCS 885-15124/5	Lab Control Sample	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 15117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14459-3	FY OX Eff	Total/NA	Air	8015M/D	
885-14459-4	FY Comb Inf	Total/NA	Air	8015M/D	
MB 885-15117/6	Method Blank	Total/NA	Air	8015M/D	
LCS 885-15117/4	Lab Control Sample	Total/NA	Air	8015M/D	
885-14459-3 DU	FY OX Eff	Total/NA	Air	8015M/D	

Analysis Batch: 15118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14459-3	FY OX Eff	Total/NA	Air	8021B	
885-14459-4	FY Comb Inf	Total/NA	Air	8021B	
MB 885-15118/6	Method Blank	Total/NA	Air	8021B	
LCS 885-15118/5	Lab Control Sample	Total/NA	Air	8021B	
885-14459-3 DU	FY OX Eff	Total/NA	Air	8021B	

Analysis Batch: 15134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14459-1	FY Treated Eff	Total/NA	Water	8015M/D	
885-14459-2	FY Raw	Total/NA	Water	8015M/D	
MB 885-15134/6	Method Blank	Total/NA	Water	8015M/D	
LCS 885-15134/4	Lab Control Sample	Total/NA	Water	8015M/D	
885-14459-1 MS	FY Treated Eff	Total/NA	Water	8015M/D	
885-14459-1 MSD	FY Treated Eff	Total/NA	Water	8015M/D	

GC Semi VOA

Prep Batch: 15133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14459-1	FY Treated Eff	Total/NA	Water	3511	
885-14459-2	FY Raw	Total/NA	Water	3511	
MB 885-15133/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-15133/2-A	Lab Control Sample	Total/NA	Water	3511	
885-14459-1 MS	FY Treated Eff	Total/NA	Water	3511	
885-14459-1 MSD	FY Treated Eff	Total/NA	Water	3511	

Analysis Batch: 15178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14459-1	FY Treated Eff	Total/NA	Water	8015M/D	15133
885-14459-2	FY Raw	Total/NA	Water	8015M/D	15133
MB 885-15133/1-A	Method Blank	Total/NA	Water	8015M/D	15133
LCS 885-15133/2-A	Lab Control Sample	Total/NA	Water	8015M/D	15133
885-14459-1 MS	FY Treated Eff	Total/NA	Water	8015M/D	15133

GC Semi VOA (Continued)

Analysis Batch: 15178 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14459-1 MSD	FY Treated Eff	Total/NA	Water	8015M/D	15133

Prep Batch: 15239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14459-1	FY Treated Eff	Total/NA	Water	8011	
885-14459-2	FY Raw	Total/NA	Water	8011	
885-14459-5	Trip Blank	Total/NA	Water	8011	
MB 885-15239/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-15239/4-A	Lab Control Sample	Total/NA	Water	8011	
MRL 885-15239/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 15245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14459-5	Trip Blank	Total/NA	Water	8011	15239
MB 885-15239/3-A	Method Blank	Total/NA	Water	8011	15239
LCS 885-15239/4-A	Lab Control Sample	Total/NA	Water	8011	15239
MRL 885-15239/1-A	Lab Control Sample	Total/NA	Water	8011	15239

Analysis Batch: 15329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14459-1	FY Treated Eff	Total/NA	Water	8011	15239

Analysis Batch: 15410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14459-2	FY Raw	Total/NA	Water	8011	15239

HPLC/IC

Analysis Batch: 15114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14459-1	FY Treated Eff	Total/NA	Water	300.0	
885-14459-1	FY Treated Eff	Total/NA	Water	300.0	
885-14459-2	FY Raw	Total/NA	Water	300.0	
885-14459-2	FY Raw	Total/NA	Water	300.0	
MB 885-15114/4	Method Blank	Total/NA	Water	300.0	
LCS 885-15114/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-15114/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 15115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14459-1	FY Treated Eff	Total/NA	Water	300.0	
885-14459-2	FY Raw	Total/NA	Water	300.0	
MB 885-15115/4	Method Blank	Total/NA	Water	300.0	
LCS 885-15115/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-15115/3	Lab Control Sample	Total/NA	Water	300.0	
885-14459-1 MS	FY Treated Eff	Total/NA	Water	300.0	
885-14459-1 MSD	FY Treated Eff	Total/NA	Water	300.0	

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-14459-1
Project/Site: Former Y Station State Lead Site

General Chemistry

Analysis Batch: 15222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-14459-1	FY Treated Eff	Total/NA	Water	2540C	
885-14459-2	FY Raw	Total/NA	Water	2540C	
MB 885-15222/1	Method Blank	Total/NA	Water	2540C	
LCS 885-15222/2	Lab Control Sample	Total/NA	Water	2540C	
885-14459-2 DU	FY Raw	Total/NA	Water	2540C	

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-14459-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Treated Eff
Lab Sample ID: 885-14459-1
Date Collected: 10/28/24 13:20
Matrix: Water
Date Received: 10/30/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	15124	CM	EET ALB	10/30/24 20:26
Total/NA	Analysis	8015M/D		1	15134	JP	EET ALB	10/30/24 13:00
Total/NA	Prep	8011			15239	KR	EET ALB	11/01/24 11:16
Total/NA	Analysis	8011		20	15329	KR	EET ALB	11/04/24 17:08
Total/NA	Prep	3511			15133	EM	EET ALB	10/30/24 10:57
Total/NA	Analysis	8015M/D		1	15178	EM	EET ALB	10/31/24 11:46
Total/NA	Analysis	300.0		1	15114	EH	EET ALB	10/30/24 12:03
Total/NA	Analysis	300.0		20	15114	EH	EET ALB	10/30/24 12:34
Total/NA	Analysis	300.0		5	15115	EH	EET ALB	10/30/24 16:45
Total/NA	Analysis	2540C		1	15222	ES	EET ALB	11/01/24 08:15

Client Sample ID: FY Raw
Lab Sample ID: 885-14459-2
Date Collected: 10/28/24 13:00
Matrix: Water
Date Received: 10/30/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		50	15124	CM	EET ALB	10/30/24 20:51
Total/NA	Analysis	8260B		5	15124	CM	EET ALB	10/30/24 21:15
Total/NA	Analysis	8015M/D		1	15134	JP	EET ALB	10/30/24 13:23
Total/NA	Prep	8011			15239	KR	EET ALB	11/01/24 11:16
Total/NA	Analysis	8011		2000	15410	KR	EET ALB	11/05/24 18:08
Total/NA	Prep	3511			15133	EM	EET ALB	10/30/24 10:57
Total/NA	Analysis	8015M/D		1	15178	EM	EET ALB	10/31/24 12:22
Total/NA	Analysis	300.0		1	15114	EH	EET ALB	10/30/24 12:44
Total/NA	Analysis	300.0		20	15114	EH	EET ALB	10/30/24 12:54
Total/NA	Analysis	300.0		5	15115	EH	EET ALB	10/30/24 16:56
Total/NA	Analysis	2540C		1	15222	ES	EET ALB	11/01/24 08:15

Client Sample ID: FY OX Eff
Lab Sample ID: 885-14459-3
Date Collected: 10/28/24 12:52
Matrix: Air
Date Received: 10/30/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	15117	JP	EET ALB	10/30/24 11:49
Total/NA	Analysis	8021B		1	15118	JP	EET ALB	10/30/24 11:49

Client Sample ID: FY Comb Inf
Lab Sample ID: 885-14459-4
Date Collected: 10/28/24 12:45
Matrix: Air
Date Received: 10/30/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	15117	JP	EET ALB	10/30/24 12:36
Total/NA	Analysis	8021B		50	15118	JP	EET ALB	10/30/24 12:36

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-14459-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: Trip Blank
Lab Sample ID: 885-14459-5
Date Collected: 10/28/24 00:00
Matrix: Water
Date Received: 10/30/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	15124	CM	EET ALB	10/30/24 20:02
Total/NA	Prep	8011			15239	KR	EET ALB	11/01/24 11:16
Total/NA	Analysis	8011		1	15245	KR	EET ALB	11/01/24 20:01

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-14459-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8015M/D		Water	Gasoline Range Organics [C6 - C10]
8015M/D	3511	Water	Diesel Range Organics [C10-C28]
8015M/D	3511	Water	Motor Oil Range Organics [C28-C40]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-14459-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

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
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

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:

On Ice: ☒ Yes ☐ No mgb

# of Coolers: 2

Cooler Temp(Including CF): 5.5 +0.1 = 5.6 °C

14.9 +0.1 = 15.0 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

885-14459 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Analysis Request: VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO/DRO - EPA method 8015B	Sulfate/Chloride - EPA method 300.0	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
10/28/24	1320	H_2O	FY Treated Eff	7-40ml, 1-plastic, 1-Amber	HCl, ThiO, H_2SO_4		X	X	X	X	X	X		
10/28/24	1300	H_2O	FY Raw	7-40ml, 1-plastic, 1-Amber	HCl, ThiO, H_2SO_4		X	X	X	X	X	X		
10/28/24	1252	Air	FY OX Eff	1-Tedlar	None								X	X
10/28/24	1245	Air	FY Comb Inf	1-Tedlar	None								X	X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
10/29/24	1700			UPS		9:20
					10/30/24	
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:

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:

On Ice: ☑ Yes ☐ No mcyo

# of Coolers: 2

Cooler Temp(Including CF): 5.5 +0.1 = 5.6 °C

14 9 +0.1 = 15.6 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Analysis Request: VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO/DRO - EPA method 8015B	Sulfate/Chloride - EPA method 300.0	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
10/28/24	1370	H_2O	FY Treated Eff	7-40ml, 1-plastic, 1-Amber	HCl, ThiO, H_2SO_4		X	X	X	X	X	X		
10/28/24	1300	H_2O	FY Raw	7-40ml, 1-plastic, 1-Amber	HCl, ThiO, H_2SO_4		X	X	X	X	X	X		
10/28/24	1252	Air	FY OX Eff	1-Tedlar	None								X	X
10/28/24	1245	Air	FY Comb Inf	1-Tedlar	None								X	X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
10/29/24	1700			UPS		
					10/30/24	9:20
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.

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc. Job Number: 885-14459-1

Login Number: 14459 **List Source: Eurofins Albuquerque**

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	One w/o= Thermal preservation not req.
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?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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	

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 11/21/2024 2:49:02 PM

JOB DESCRIPTION

Former Y Station Lead Site

JOB NUMBER

885-15203-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

my EOL

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
Cheyenne Cason, Project Manager
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Definitions/Glossary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-15203-1
Project/Site: Former Y Station Lead Site

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.

GC 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.

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
885-15203-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 11/13/2024 11:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.0°C and 18.5°C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 885-15852 recovered outside acceptance criteria, low biased, for Bromomethane. Since the associated samples were non-detect for the analyte(s), the data are reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8011: The following samples were diluted due to the nature of the sample matrix: FY Treatment Eff (885-15203-1) and FY Raw (885-15203-2). 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.

HPLC/IC
Method 300_OF_28D_NO3: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 885-15892 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 (LCS) recovery is within acceptance limits.

Method 300_OF_28D_PREC: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 885-15891 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 (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-15203-1
Project/Site: Former Y Station Lead Site

Client Sample ID: FY Treatment Eff
Lab Sample ID: 885-15203-1
Date Collected: 11/11/24 11:15
Matrix: Water
Date Received: 11/13/24 11:24

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			11/13/24 22:25	1
1,1,1-Trichloroethane	ND		1.0	0.081	ug/L			11/13/24 22:25	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.27	ug/L			11/13/24 22:25	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			11/13/24 22:25	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			11/13/24 22:25	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			11/13/24 22:25	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			11/13/24 22:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			11/13/24 22:25	1
1,2,3-Trichloropropane	ND		2.0	0.16	ug/L			11/13/24 22:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			11/13/24 22:25	1
1,2,4-Trimethylbenzene	**0.36**	**J**	1.0	0.12	ug/L			11/13/24 22:25	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.59	ug/L			11/13/24 22:25	1
1,2-Dibromoethane (EDB)	**1.0**		1.0	0.30	ug/L			11/13/24 22:25	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			11/13/24 22:25	1
1,2-Dichloroethane (EDC)	**3.6**		1.0	0.30	ug/L			11/13/24 22:25	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			11/13/24 22:25	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			11/13/24 22:25	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			11/13/24 22:25	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			11/13/24 22:25	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L			11/13/24 22:25	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			11/13/24 22:25	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			11/13/24 22:25	1
2-Butanone	ND		10	2.0	ug/L			11/13/24 22:25	1
2-Chlorotoluene	ND		1.0	0.13	ug/L			11/13/24 22:25	1
2-Hexanone	ND		10	1.8	ug/L			11/13/24 22:25	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			11/13/24 22:25	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			11/13/24 22:25	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			11/13/24 22:25	1
4-Methyl-2-pentanone	**4.7**	**J**	10	1.5	ug/L			11/13/24 22:25	1
Acetone	**17**		10	2.5	ug/L			11/13/24 22:25	1
Benzene	**2.3**		1.0	0.23	ug/L			11/13/24 22:25	1
Bromobenzene	ND		1.0	0.28	ug/L			11/13/24 22:25	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/13/24 22:25	1
Dibromochloromethane	ND		1.0	0.28	ug/L			11/13/24 22:25	1
Bromoform	ND		1.0	0.31	ug/L			11/13/24 22:25	1
Bromomethane	ND		3.0	1.0	ug/L			11/13/24 22:25	1
Carbon disulfide	ND		10	1.0	ug/L			11/13/24 22:25	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			11/13/24 22:25	1
Chlorobenzene	ND		1.0	0.46	ug/L			11/13/24 22:25	1
Chloroethane	ND		2.0	0.38	ug/L			11/13/24 22:25	1
Chloroform	ND		1.0	0.25	ug/L			11/13/24 22:25	1
Chloromethane	ND		3.0	0.41	ug/L			11/13/24 22:25	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			11/13/24 22:25	1
cis-1,3-Dichloropropene	ND		1.0	0.12	ug/L			11/13/24 22:25	1
Dibromomethane	ND		1.0	0.31	ug/L			11/13/24 22:25	1
Dichlorodifluoromethane	ND		1.0	0.26	ug/L			11/13/24 22:25	1
Ethylbenzene	ND		1.0	0.21	ug/L			11/13/24 22:25	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			11/13/24 22:25	1
Isopropylbenzene	ND		1.0	0.18	ug/L			11/13/24 22:25	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station Lead Site

Job ID: 885-15203-1

Client Sample ID: FY Treatment Eff

Date Collected: 11/11/24 11:15
Date Received: 11/13/24 11:24

Lab Sample ID: 885-15203-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			11/13/24 22:25	1
Methylene Chloride	ND		2.5	1.2	ug/L			11/13/24 22:25	1
n-Butylbenzene	ND		3.0	0.13	ug/L			11/13/24 22:25	1
N-Propylbenzene	ND		1.0	0.11	ug/L			11/13/24 22:25	1
Naphthalene	**1.6**	**J**	2.0	0.24	ug/L			11/13/24 22:25	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			11/13/24 22:25	1
Styrene	ND		1.0	0.14	ug/L			11/13/24 22:25	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			11/13/24 22:25	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			11/13/24 22:25	1
Toluene	**1.5**		1.0	0.25	ug/L			11/13/24 22:25	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			11/13/24 22:25	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			11/13/24 22:25	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			11/13/24 22:25	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			11/13/24 22:25	1
Vinyl chloride	ND		1.0	0.32	ug/L			11/13/24 22:25	1
Xylenes, Total	**2.0**		1.5	0.37	ug/L			11/13/24 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*11/13/24 22:25*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/13/24 22:25*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*11/13/24 22:25*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*11/13/24 22:25*	*1*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**0.092**		0.050	0.013	mg/L			11/14/24 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 270*		*11/14/24 13:05*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.95**	**D**	0.094	0.075	ug/L		11/14/24 08:39	11/15/24 13:34	10

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.5**		1.0	0.58	mg/L		11/13/24 13:39	11/14/24 15:34	1
Motor Oil Range Organics [C28-C40]	**4.6**	**J**	5.0	1.3	mg/L		11/13/24 13:39	11/14/24 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*149*		*46 - 159*	*11/13/24 13:39*	*11/14/24 15:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69**		10	5.0	mg/L			11/14/24 12:26	20
Sulfate	**43**		0.50	0.25	mg/L			11/14/24 11:55	1
Nitrate Nitrite as N	**1.4**		1.0	0.11	mg/L			11/14/24 14:09	5

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-15203-1
Project/Site: Former Y Station Lead Site

Client Sample ID: FY Treatment Eff
Lab Sample ID: 885-15203-1
Date Collected: 11/11/24 11:15
Matrix: Water
Date Received: 11/13/24 11:24

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	440		100	50	mg/L			11/15/24 14:39	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station Lead Site

Job ID: 885-15203-1

Client Sample ID: FY Raw
Date Collected: 11/11/24 11:10
Date Received: 11/13/24 11:24

Lab Sample ID: 885-15203-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.3	ug/L			11/13/24 23:14	5
1,1,1-Trichloroethane	ND		5.0	0.41	ug/L			11/13/24 23:14	5
1,1,2,2-Tetrachloroethane	ND		10	1.4	ug/L			11/13/24 23:14	5
1,1,2-Trichloroethane	ND		5.0	0.99	ug/L			11/13/24 23:14	5
1,1-Dichloroethane	ND		5.0	1.5	ug/L			11/13/24 23:14	5
1,1-Dichloroethene	ND		5.0	1.0	ug/L			11/13/24 23:14	5
1,1-Dichloropropene	ND		5.0	0.90	ug/L			11/13/24 23:14	5
1,2,3-Trichlorobenzene	ND		5.0	1.2	ug/L			11/13/24 23:14	5
1,2,3-Trichloropropane	ND		10	0.80	ug/L			11/13/24 23:14	5
1,2,4-Trichlorobenzene	ND		5.0	2.0	ug/L			11/13/24 23:14	5
1,2,4-Trimethylbenzene	**95**		5.0	0.61	ug/L			11/13/24 23:14	5
1,2-Dibromo-3-Chloropropane	ND		10	2.9	ug/L			11/13/24 23:14	5
1,2-Dibromoethane (EDB)	**28**		5.0	1.5	ug/L			11/13/24 23:14	5
1,2-Dichlorobenzene	ND		5.0	0.77	ug/L			11/13/24 23:14	5
1,2-Dichloroethane (EDC)	**160**		5.0	1.5	ug/L			11/13/24 23:14	5
1,2-Dichloropropane	ND		5.0	1.0	ug/L			11/13/24 23:14	5
1,3,5-Trimethylbenzene	**38**		5.0	0.91	ug/L			11/13/24 23:14	5
1,3-Dichlorobenzene	ND		5.0	0.81	ug/L			11/13/24 23:14	5
1,3-Dichloropropane	ND		5.0	0.90	ug/L			11/13/24 23:14	5
1,4-Dichlorobenzene	ND		5.0	0.52	ug/L			11/13/24 23:14	5
1-Methylnaphthalene	**12**	**J**	20	10	ug/L			11/13/24 23:14	5
2,2-Dichloropropane	ND		10	1.3	ug/L			11/13/24 23:14	5
2-Butanone	**54**		50	10	ug/L			11/13/24 23:14	5
2-Chlorotoluene	ND		5.0	0.66	ug/L			11/13/24 23:14	5
2-Hexanone	**130**		50	9.0	ug/L			11/13/24 23:14	5
2-Methylnaphthalene	ND		20	10	ug/L			11/13/24 23:14	5
4-Chlorotoluene	ND		5.0	0.67	ug/L			11/13/24 23:14	5
4-Isopropyltoluene	**1.4**	**J**	5.0	1.0	ug/L			11/13/24 23:14	5
4-Methyl-2-pentanone	**30**	**J**	50	7.5	ug/L			11/13/24 23:14	5
Acetone	**64**		50	13	ug/L			11/13/24 23:14	5
Benzene	**950**		50	11	ug/L			11/13/24 22:50	50
Bromobenzene	ND		5.0	1.4	ug/L			11/13/24 23:14	5
Bromodichloromethane	ND		5.0	1.0	ug/L			11/13/24 23:14	5
Dibromochloromethane	ND		5.0	1.4	ug/L			11/13/24 23:14	5
Bromoform	ND		5.0	1.6	ug/L			11/13/24 23:14	5
Bromomethane	ND		15	5.0	ug/L			11/13/24 23:14	5
Carbon disulfide	ND		50	5.0	ug/L			11/13/24 23:14	5
Carbon tetrachloride	ND		5.0	0.88	ug/L			11/13/24 23:14	5
Chlorobenzene	ND		5.0	2.3	ug/L			11/13/24 23:14	5
Chloroethane	ND		10	1.9	ug/L			11/13/24 23:14	5
Chloroform	ND		5.0	1.3	ug/L			11/13/24 23:14	5
Chloromethane	ND		15	2.1	ug/L			11/13/24 23:14	5
cis-1,2-Dichloroethene	ND		5.0	1.9	ug/L			11/13/24 23:14	5
cis-1,3-Dichloropropene	ND		5.0	0.58	ug/L			11/13/24 23:14	5
Dibromomethane	ND		5.0	1.5	ug/L			11/13/24 23:14	5
Dichlorodifluoromethane	ND		5.0	1.3	ug/L			11/13/24 23:14	5
Ethylbenzene	**50**		5.0	1.1	ug/L			11/13/24 23:14	5
Hexachlorobutadiene	ND		5.0	2.1	ug/L			11/13/24 23:14	5
Isopropylbenzene	**4.3**	**J**	5.0	0.91	ug/L			11/13/24 23:14	5

Client Sample ID: FY Raw **Lab Sample ID: 885-15203-2**
Date Collected: 11/11/24 11:10 **Matrix: Water**
Date Received: 11/13/24 11:24

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		5.0	2.0	ug/L			11/13/24 23:14	5
Methylene Chloride	ND		13	6.2	ug/L			11/13/24 23:14	5
n-Butylbenzene	**1.9**	**J**	15	0.63	ug/L			11/13/24 23:14	5
N-Propylbenzene	**4.8**	**J**	5.0	0.55	ug/L			11/13/24 23:14	5
Naphthalene	**28**		10	1.2	ug/L			11/13/24 23:14	5
sec-Butylbenzene	**1.1**	**J**	5.0	0.72	ug/L			11/13/24 23:14	5
Styrene	ND		5.0	0.68	ug/L			11/13/24 23:14	5
tert-Butylbenzene	ND		5.0	1.2	ug/L			11/13/24 23:14	5
Tetrachloroethene (PCE)	ND		5.0	0.89	ug/L			11/13/24 23:14	5
Toluene	**990**		50	13	ug/L			11/13/24 22:50	50
trans-1,2-Dichloroethene	ND		5.0	0.97	ug/L			11/13/24 23:14	5
trans-1,3-Dichloropropene	ND		5.0	1.7	ug/L			11/13/24 23:14	5
Trichloroethene (TCE)	ND		5.0	1.0	ug/L			11/13/24 23:14	5
Trichlorofluoromethane	ND		5.0	0.79	ug/L			11/13/24 23:14	5
Vinyl chloride	ND		5.0	1.6	ug/L			11/13/24 23:14	5
Xylenes, Total	**780**		7.5	1.9	ug/L			11/13/24 23:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*11/13/24 22:50*	*50*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*11/13/24 23:14*	*5*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/13/24 22:50*	*50*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/13/24 23:14*	*5*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/13/24 22:50*	*50*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/13/24 23:14*	*5*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*11/13/24 22:50*	*50*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*11/13/24 23:14*	*5*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**8.4**		0.10	0.026	mg/L			11/14/24 13:28	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*15 - 270*		*11/14/24 13:28*	*2*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**33**	**D**	1.9	1.5	ug/L		11/14/24 08:39	11/15/24 13:47	200

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.6**		1.0	0.58	mg/L		11/13/24 13:39	11/14/24 15:47	1
Motor Oil Range Organics [C28-C40]	**2.5**	**J**	5.0	1.3	mg/L		11/13/24 13:39	11/14/24 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*129*		*46 - 159*	*11/13/24 13:39*	*11/14/24 15:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**73**		10	5.0	mg/L			11/14/24 12:46	20
Sulfate	**39**		0.50	0.25	mg/L			11/14/24 12:36	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-15203-1
Project/Site: Former Y Station Lead Site

Client Sample ID: FY Raw **Lab Sample ID: 885-15203-2**
Date Collected: 11/11/24 11:10 **Matrix: Water**
Date Received: 11/13/24 11:24

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	1.4		1.0	0.11	mg/L			11/14/24 14:20	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	480		100	50	mg/L			11/15/24 14:39	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station Lead Site

Job ID: 885-15203-1

Client Sample ID: FY OX Eff
Date Collected: 11/11/24 14:20
Date Received: 11/13/24 11:24
Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-15203-3
Matrix: Air

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	4.7	J	5.0	1.3	ug/L			11/14/24 11:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 412*		*11/14/24 11:16*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.18		0.10	0.018	ug/L			11/15/24 12:20	1
Ethylbenzene	0.070	J	0.10	0.014	ug/L			11/15/24 12:20	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			11/15/24 12:20	1
Toluene	0.18		0.10	0.021	ug/L			11/15/24 12:20	1
Xylenes, Total	0.50		0.20	0.031	ug/L			11/15/24 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*11/15/24 12:20*	*1*

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-15203-1
Project/Site: Former Y Station Lead Site

Client Sample ID: FY Comb Inf

Lab Sample ID: 885-15203-4
Matrix: Air
Date Collected: 11/11/24 14:25
Date Received: 11/13/24 11:24
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	5300		250	66	ug/L			11/14/24 12:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*15 - 412*		*11/14/24 12:03*	*50*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	30		5.0	0.92	ug/L			11/15/24 13:07	50
Ethylbenzene	37		5.0	0.70	ug/L			11/15/24 13:07	50
Methyl-tert-butyl Ether (MTBE)	ND		13	2.2	ug/L			11/15/24 13:07	50
Toluene	230		5.0	1.0	ug/L			11/15/24 13:07	50
Xylenes, Total	180		10	1.6	ug/L			11/15/24 13:07	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*11/15/24 13:07*	*50*

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-15203-1
Project/Site: Former Y Station Lead Site

Client Sample ID: Trip Blank
Lab Sample ID: 885-15203-5
Date Collected: 11/11/24 00:00
Matrix: Water
Date Received: 11/13/24 11:24

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			11/13/24 22:01	1
1,1,1-Trichloroethane	ND		1.0	0.081	ug/L			11/13/24 22:01	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.27	ug/L			11/13/24 22:01	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			11/13/24 22:01	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			11/13/24 22:01	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			11/13/24 22:01	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			11/13/24 22:01	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			11/13/24 22:01	1
1,2,3-Trichloropropane	ND		2.0	0.16	ug/L			11/13/24 22:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			11/13/24 22:01	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			11/13/24 22:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.59	ug/L			11/13/24 22:01	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			11/13/24 22:01	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			11/13/24 22:01	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			11/13/24 22:01	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			11/13/24 22:01	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			11/13/24 22:01	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			11/13/24 22:01	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			11/13/24 22:01	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L			11/13/24 22:01	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			11/13/24 22:01	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			11/13/24 22:01	1
2-Butanone	ND		10	2.0	ug/L			11/13/24 22:01	1
2-Chlorotoluene	ND		1.0	0.13	ug/L			11/13/24 22:01	1
2-Hexanone	ND		10	1.8	ug/L			11/13/24 22:01	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			11/13/24 22:01	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			11/13/24 22:01	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			11/13/24 22:01	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			11/13/24 22:01	1
Acetone	ND		10	2.5	ug/L			11/13/24 22:01	1
Benzene	ND		1.0	0.23	ug/L			11/13/24 22:01	1
Bromobenzene	ND		1.0	0.28	ug/L			11/13/24 22:01	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/13/24 22:01	1
Dibromochloromethane	ND		1.0	0.28	ug/L			11/13/24 22:01	1
Bromoform	ND		1.0	0.31	ug/L			11/13/24 22:01	1
Bromomethane	ND		3.0	1.0	ug/L			11/13/24 22:01	1
Carbon disulfide	ND		10	1.0	ug/L			11/13/24 22:01	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			11/13/24 22:01	1
Chlorobenzene	ND		1.0	0.46	ug/L			11/13/24 22:01	1
Chloroethane	ND		2.0	0.38	ug/L			11/13/24 22:01	1
Chloroform	ND		1.0	0.25	ug/L			11/13/24 22:01	1
Chloromethane	ND		3.0	0.41	ug/L			11/13/24 22:01	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			11/13/24 22:01	1
cis-1,3-Dichloropropene	ND		1.0	0.12	ug/L			11/13/24 22:01	1
Dibromomethane	ND		1.0	0.31	ug/L			11/13/24 22:01	1
Dichlorodifluoromethane	ND		1.0	0.26	ug/L			11/13/24 22:01	1
Ethylbenzene	ND		1.0	0.21	ug/L			11/13/24 22:01	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			11/13/24 22:01	1
Isopropylbenzene	ND		1.0	0.18	ug/L			11/13/24 22:01	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-15203-1
Project/Site: Former Y Station Lead Site

Client Sample ID: Trip Blank **Lab Sample ID: 885-15203-5**
Date Collected: 11/11/24 00:00 **Matrix: Water**
Date Received: 11/13/24 11:24

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			11/13/24 22:01	1
Methylene Chloride	ND		2.5	1.2	ug/L			11/13/24 22:01	1
n-Butylbenzene	ND		3.0	0.13	ug/L			11/13/24 22:01	1
N-Propylbenzene	ND		1.0	0.11	ug/L			11/13/24 22:01	1
Naphthalene	ND		2.0	0.24	ug/L			11/13/24 22:01	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			11/13/24 22:01	1
Styrene	ND		1.0	0.14	ug/L			11/13/24 22:01	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			11/13/24 22:01	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			11/13/24 22:01	1
Toluene	ND		1.0	0.25	ug/L			11/13/24 22:01	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			11/13/24 22:01	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			11/13/24 22:01	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			11/13/24 22:01	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			11/13/24 22:01	1
Vinyl chloride	ND		1.0	0.32	ug/L			11/13/24 22:01	1
Xylenes, Total	ND		1.5	0.37	ug/L			11/13/24 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*11/13/24 22:01*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/13/24 22:01*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/13/24 22:01*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/13/24 22:01*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-15852/6
Matrix: Water
Analysis Batch: 15852

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			11/13/24 13:09	1
1,1,1-Trichloroethane	ND		1.0	0.081	ug/L			11/13/24 13:09	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.27	ug/L			11/13/24 13:09	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			11/13/24 13:09	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			11/13/24 13:09	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			11/13/24 13:09	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			11/13/24 13:09	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			11/13/24 13:09	1
1,2,3-Trichloropropane	ND		2.0	0.16	ug/L			11/13/24 13:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			11/13/24 13:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			11/13/24 13:09	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.59	ug/L			11/13/24 13:09	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			11/13/24 13:09	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			11/13/24 13:09	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			11/13/24 13:09	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			11/13/24 13:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			11/13/24 13:09	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			11/13/24 13:09	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			11/13/24 13:09	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/L			11/13/24 13:09	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			11/13/24 13:09	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			11/13/24 13:09	1
2-Butanone	ND		10	2.0	ug/L			11/13/24 13:09	1
2-Chlorotoluene	ND		1.0	0.13	ug/L			11/13/24 13:09	1
2-Hexanone	ND		10	1.8	ug/L			11/13/24 13:09	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			11/13/24 13:09	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			11/13/24 13:09	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			11/13/24 13:09	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			11/13/24 13:09	1
Acetone	ND		10	2.5	ug/L			11/13/24 13:09	1
Benzene	ND		1.0	0.23	ug/L			11/13/24 13:09	1
Bromobenzene	ND		1.0	0.28	ug/L			11/13/24 13:09	1
Bromodichloromethane	ND		1.0	0.20	ug/L			11/13/24 13:09	1
Dibromochloromethane	ND		1.0	0.28	ug/L			11/13/24 13:09	1
Bromoform	ND		1.0	0.31	ug/L			11/13/24 13:09	1
Bromomethane	ND		3.0	1.0	ug/L			11/13/24 13:09	1
Carbon disulfide	ND		10	1.0	ug/L			11/13/24 13:09	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			11/13/24 13:09	1
Chlorobenzene	ND		1.0	0.46	ug/L			11/13/24 13:09	1
Chloroethane	ND		2.0	0.38	ug/L			11/13/24 13:09	1
Chloroform	ND		1.0	0.25	ug/L			11/13/24 13:09	1
Chloromethane	ND		3.0	0.41	ug/L			11/13/24 13:09	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			11/13/24 13:09	1
cis-1,3-Dichloropropene	ND		1.0	0.12	ug/L			11/13/24 13:09	1
Dibromomethane	ND		1.0	0.31	ug/L			11/13/24 13:09	1
Dichlorodifluoromethane	ND		1.0	0.26	ug/L			11/13/24 13:09	1
Ethylbenzene	ND		1.0	0.21	ug/L			11/13/24 13:09	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			11/13/24 13:09	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-15852/6
Matrix: Water
Analysis Batch: 15852

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.18	ug/L			11/13/24 13:09	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			11/13/24 13:09	1
Methylene Chloride	ND		2.5	1.2	ug/L			11/13/24 13:09	1
n-Butylbenzene	ND		3.0	0.13	ug/L			11/13/24 13:09	1
N-Propylbenzene	ND		1.0	0.11	ug/L			11/13/24 13:09	1
Naphthalene	ND		2.0	0.24	ug/L			11/13/24 13:09	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			11/13/24 13:09	1
Styrene	ND		1.0	0.14	ug/L			11/13/24 13:09	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			11/13/24 13:09	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			11/13/24 13:09	1
Toluene	ND		1.0	0.25	ug/L			11/13/24 13:09	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			11/13/24 13:09	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			11/13/24 13:09	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			11/13/24 13:09	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			11/13/24 13:09	1
Vinyl chloride	ND		1.0	0.32	ug/L			11/13/24 13:09	1
Xylenes, Total	ND		1.5	0.37	ug/L			11/13/24 13:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*11/13/24 13:09*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/13/24 13:09*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*11/13/24 13:09*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*11/13/24 13:09*	*1*

Lab Sample ID: LCS 885-15852/5
Matrix: Water
Analysis Batch: 15852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	16.7		ug/L		83	70 - 130		
Benzene			20.1	18.5		ug/L		92	70 - 130		
Chlorobenzene			20.1	20.6		ug/L		103	70 - 130		
Toluene			20.2	19.8		ug/L		98	70 - 130		
Trichloroethene (TCE)			20.2	17.5		ug/L		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-15904/6
Matrix: Air
Analysis Batch: 15904

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 [C6 - C10]	ND		5.0	1.3	ug/L			11/14/24 10:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 412*		*11/14/24 10:52*	*1*

Lab Sample ID: LCS 885-15904/4
Matrix: Air
Analysis Batch: 15904

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 [C6 - C10]	50.0	50.0		ug/L		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*204*		*15 - 412*

Lab Sample ID: 885-15203-3 DU
Matrix: Air
Analysis Batch: 15904

Client Sample ID: FY OX Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	4.7	J	4.67	J	ug/L		1	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*15 - 412*

Lab Sample ID: MB 885-15935/6
Matrix: Water
Analysis Batch: 15935

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 [C6 - C10]	ND		0.050	0.013	mg/L			11/14/24 10:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 270*		*11/14/24 10:52*	*1*

Lab Sample ID: LCS 885-15935/4
Matrix: Water
Analysis Batch: 15935

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 [C6 - C10]	0.500	0.500		mg/L		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*204*		*15 - 270*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-15203-1 MS
Matrix: Water
Analysis Batch: 15935

Client Sample ID: FY Treatment Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	0.092		0.500	0.591		mg/L		100	41 - 148

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*213*		*15 - 270*

Lab Sample ID: 885-15203-1 MSD
Matrix: Water
Analysis Batch: 15935

Client Sample ID: FY Treatment Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	0.092		0.500	0.604		mg/L		102	41 - 148	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*216*		*15 - 270*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-15989/7
Matrix: Air
Analysis Batch: 15989

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10	0.018	ug/L			11/15/24 11:56	1
Ethylbenzene	ND		0.10	0.014	ug/L			11/15/24 11:56	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			11/15/24 11:56	1
Toluene	ND		0.10	0.021	ug/L			11/15/24 11:56	1
Xylenes, Total	ND		0.20	0.031	ug/L			11/15/24 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*11/15/24 11:56*	*1*

Lab Sample ID: LCS 885-15989/6
Matrix: Air
Analysis Batch: 15989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.00	2.13		ug/L		107	70 - 130
Ethylbenzene	2.00	2.23		ug/L		112	70 - 130
m&p-Xylene	4.00	4.38		ug/L		109	70 - 130
Methyl-tert-butyl Ether (MTBE)	2.00	1.59		ug/L		80	70 - 130
o-Xylene	2.00	2.18		ug/L		109	70 - 130
Toluene	2.00	2.20		ug/L		110	70 - 130
Xylenes, Total	6.00	6.55		ug/L		109	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station Lead Site

Job ID: 885-15203-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 885-15203-3 DU
Matrix: Air
Analysis Batch: 15989

Client Sample ID: FY OX Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Benzene	0.18			0.153		ug/L				14	20
Ethylbenzene	0.070	J		0.0629	J	ug/L				11	20
Methyl-tert-butyl Ether (MTBE)	ND			ND		ug/L				NC	20
Toluene	0.18			0.162		ug/L				11	20
Xylenes, Total	0.50			0.437		ug/L				13	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-15906/3-A
Matrix: Water
Analysis Batch: 15928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0080	ug/L		11/14/24 08:39	11/14/24 17:02	1

Lab Sample ID: LCS 885-15906/4-A
Matrix: Water
Analysis Batch: 15928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15906

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)			0.100	0.0921		ug/L		92	70 - 130		

Lab Sample ID: LCSD 885-15906/5-A
Matrix: Water
Analysis Batch: 15928

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 15906

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)			0.100	0.0839		ug/L		84	70 - 130	9	20

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-15864/1-A
Matrix: Water
Analysis Batch: 15903

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15864

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.58	mg/L		11/13/24 13:39	11/14/24 14:44	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.3	mg/L		11/13/24 13:39	11/14/24 14:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*118*		*46 - 159*	*11/13/24 13:39*	*11/14/24 14:44*	*1*

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 885-15864/2-A
Matrix: Water
Analysis Batch: 15903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15864

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			2.50	1.83		mg/L		73	57 - 147		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*108*		*46 - 159*

Lab Sample ID: 885-15203-2 MS
Matrix: Water
Analysis Batch: 15903

Client Sample ID: FY Raw
Prep Type: Total/NA
Prep Batch: 15864

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	3.6		2.50	6.95		mg/L		135	33 - 161		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*128*		*46 - 159*

Lab Sample ID: 885-15203-2 MSD
Matrix: Water
Analysis Batch: 15903

Client Sample ID: FY Raw
Prep Type: Total/NA
Prep Batch: 15864

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	3.6		2.50	6.14		mg/L		103	33 - 161	12	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*116*		*46 - 159*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-15891/4
Matrix: Water
Analysis Batch: 15891

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			11/14/24 08:01	1
Sulfate	ND		0.50	0.25	mg/L			11/14/24 08:01	1

Lab Sample ID: LCS 885-15891/5
Matrix: Water
Analysis Batch: 15891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.95		mg/L		99	90 - 110		
Sulfate			10.0	9.94		mg/L		99	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 885-15891/3
Matrix: Water
Analysis Batch: 15891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.534		mg/L		107	50 - 150		
Sulfate			0.500	0.532		mg/L		106	50 - 150		

Lab Sample ID: MB 885-15892/4
Matrix: Water
Analysis Batch: 15892

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	0.022	mg/L			11/14/24 08:01	1

Lab Sample ID: LCS 885-15892/5
Matrix: Water
Analysis Batch: 15892

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			2.50	2.62		mg/L		105	90 - 110		
Nitrite as N			1.00	0.970		mg/L		97	90 - 110		

Lab Sample ID: MRL 885-15892/3
Matrix: Water
Analysis Batch: 15892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.100	0.104		mg/L		104	50 - 150		
Nitrite as N			0.100	0.103		mg/L		103	50 - 150		

Lab Sample ID: 885-15203-1 MS
Matrix: Water
Analysis Batch: 15892

Client Sample ID: FY Treatment Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	1.6	F1	2.50	5.14	F1	mg/L		141	80 - 120		
Nitrite as N	ND		1.00	1.14		mg/L		114	80 - 120		

Lab Sample ID: 885-15203-1 MSD
Matrix: Water
Analysis Batch: 15892

Client Sample ID: FY Treatment Eff
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	1.6	F1	2.50	4.83	F1	mg/L		129	80 - 120	6	20
Nitrite as N	ND		1.00	1.04		mg/L		104	80 - 120	10	20

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-16050/1
Matrix: Water
Analysis Batch: 16050

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	25	mg/L			11/15/24 14:39	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-15203-1
Project/Site: Former Y Station Lead Site

Method: 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 885-16050/2
Matrix: Water
Analysis Batch: 16050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1010		mg/L		101	80 - 120

GC/MS VOA

Analysis Batch: 15852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15203-1	FY Treatment Eff	Total/NA	Water	8260B	
885-15203-2	FY Raw	Total/NA	Water	8260B	
885-15203-2	FY Raw	Total/NA	Water	8260B	
885-15203-5	Trip Blank	Total/NA	Water	8260B	
MB 885-15852/6	Method Blank	Total/NA	Water	8260B	
LCS 885-15852/5	Lab Control Sample	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 15904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15203-3	FY OX Eff	Total/NA	Air	8015M/D	
885-15203-4	FY Comb Inf	Total/NA	Air	8015M/D	
MB 885-15904/6	Method Blank	Total/NA	Air	8015M/D	
LCS 885-15904/4	Lab Control Sample	Total/NA	Air	8015M/D	
885-15203-3 DU	FY OX Eff	Total/NA	Air	8015M/D	

Analysis Batch: 15935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15203-1	FY Treatment Eff	Total/NA	Water	8015M/D	
885-15203-2	FY Raw	Total/NA	Water	8015M/D	
MB 885-15935/6	Method Blank	Total/NA	Water	8015M/D	
LCS 885-15935/4	Lab Control Sample	Total/NA	Water	8015M/D	
885-15203-1 MS	FY Treatment Eff	Total/NA	Water	8015M/D	
885-15203-1 MSD	FY Treatment Eff	Total/NA	Water	8015M/D	

Analysis Batch: 15989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15203-3	FY OX Eff	Total/NA	Air	8021B	
885-15203-4	FY Comb Inf	Total/NA	Air	8021B	
MB 885-15989/7	Method Blank	Total/NA	Air	8021B	
LCS 885-15989/6	Lab Control Sample	Total/NA	Air	8021B	
885-15203-3 DU	FY OX Eff	Total/NA	Air	8021B	

GC Semi VOA

Prep Batch: 15864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15203-1	FY Treatment Eff	Total/NA	Water	3511	
885-15203-2	FY Raw	Total/NA	Water	3511	
MB 885-15864/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-15864/2-A	Lab Control Sample	Total/NA	Water	3511	
885-15203-2 MS	FY Raw	Total/NA	Water	3511	
885-15203-2 MSD	FY Raw	Total/NA	Water	3511	

Analysis Batch: 15903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15203-1	FY Treatment Eff	Total/NA	Water	8015M/D	15864
885-15203-2	FY Raw	Total/NA	Water	8015M/D	15864
MB 885-15864/1-A	Method Blank	Total/NA	Water	8015M/D	15864
LCS 885-15864/2-A	Lab Control Sample	Total/NA	Water	8015M/D	15864
885-15203-2 MS	FY Raw	Total/NA	Water	8015M/D	15864

GC Semi VOA (Continued)

Analysis Batch: 15903 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15203-2 MSD	FY Raw	Total/NA	Water	8015M/D	15864

Prep Batch: 15906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15203-1	FY Treatment Eff	Total/NA	Water	8011	
885-15203-2	FY Raw	Total/NA	Water	8011	
MB 885-15906/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-15906/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 885-15906/5-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 15928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-15906/3-A	Method Blank	Total/NA	Water	8011	15906
LCS 885-15906/4-A	Lab Control Sample	Total/NA	Water	8011	15906
LCSD 885-15906/5-A	Lab Control Sample Dup	Total/NA	Water	8011	15906

Analysis Batch: 16044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15203-1	FY Treatment Eff	Total/NA	Water	8011	15906
885-15203-2	FY Raw	Total/NA	Water	8011	15906

HPLC/IC

Analysis Batch: 15891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15203-1	FY Treatment Eff	Total/NA	Water	300.0	
885-15203-1	FY Treatment Eff	Total/NA	Water	300.0	
885-15203-2	FY Raw	Total/NA	Water	300.0	
885-15203-2	FY Raw	Total/NA	Water	300.0	
MB 885-15891/4	Method Blank	Total/NA	Water	300.0	
LCS 885-15891/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-15891/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 15892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15203-1	FY Treatment Eff	Total/NA	Water	300.0	
885-15203-2	FY Raw	Total/NA	Water	300.0	
MB 885-15892/4	Method Blank	Total/NA	Water	300.0	
LCS 885-15892/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-15892/3	Lab Control Sample	Total/NA	Water	300.0	
885-15203-1 MS	FY Treatment Eff	Total/NA	Water	300.0	
885-15203-1 MSD	FY Treatment Eff	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 16050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15203-1	FY Treatment Eff	Total/NA	Water	2540C	
885-15203-2	FY Raw	Total/NA	Water	2540C	
MB 885-16050/1	Method Blank	Total/NA	Water	2540C	
LCS 885-16050/2	Lab Control Sample	Total/NA	Water	2540C	

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station Lead Site

Job ID: 885-15203-1

Client Sample ID: FY Treatment Eff

Lab Sample ID: 885-15203-1

Date Collected: 11/11/24 11:15
Matrix: Water
Date Received: 11/13/24 11:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	15852	CM	EET ALB	11/13/24 22:25
Total/NA	Analysis	8015M/D		1	15935	JP	EET ALB	11/14/24 13:05
Total/NA	Prep	8011			15906	KR	EET ALB	11/14/24 08:39
Total/NA	Analysis	8011		10	16044	KR	EET ALB	11/15/24 13:34
Total/NA	Prep	3511			15864	MI	EET ALB	11/13/24 13:39
Total/NA	Analysis	8015M/D		1	15903	MI	EET ALB	11/14/24 15:34
Total/NA	Analysis	300.0		1	15891	ES	EET ALB	11/14/24 11:55
Total/NA	Analysis	300.0		20	15891	ES	EET ALB	11/14/24 12:26
Total/NA	Analysis	300.0		5	15892	ES	EET ALB	11/14/24 14:09
Total/NA	Analysis	2540C		1	16050	KS	EET ALB	11/15/24 14:39

Client Sample ID: FY Raw

Lab Sample ID: 885-15203-2

Date Collected: 11/11/24 11:10
Matrix: Water
Date Received: 11/13/24 11:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		50	15852	CM	EET ALB	11/13/24 22:50
Total/NA	Analysis	8260B		5	15852	CM	EET ALB	11/13/24 23:14
Total/NA	Analysis	8015M/D		2	15935	JP	EET ALB	11/14/24 13:28
Total/NA	Prep	8011			15906	KR	EET ALB	11/14/24 08:39
Total/NA	Analysis	8011		200	16044	KR	EET ALB	11/15/24 13:47
Total/NA	Prep	3511			15864	MI	EET ALB	11/13/24 13:39
Total/NA	Analysis	8015M/D		1	15903	MI	EET ALB	11/14/24 15:47
Total/NA	Analysis	300.0		1	15891	ES	EET ALB	11/14/24 12:36
Total/NA	Analysis	300.0		20	15891	ES	EET ALB	11/14/24 12:46
Total/NA	Analysis	300.0		5	15892	ES	EET ALB	11/14/24 14:20
Total/NA	Analysis	2540C		1	16050	KS	EET ALB	11/15/24 14:39

Client Sample ID: FY OX Eff

Lab Sample ID: 885-15203-3

Date Collected: 11/11/24 14:20
Matrix: Air
Date Received: 11/13/24 11:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	15904	JP	EET ALB	11/14/24 11:16
Total/NA	Analysis	8021B		1	15989	JP	EET ALB	11/15/24 12:20

Client Sample ID: FY Comb Inf

Lab Sample ID: 885-15203-4

Date Collected: 11/11/24 14:25
Matrix: Air
Date Received: 11/13/24 11:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	15904	JP	EET ALB	11/14/24 12:03
Total/NA	Analysis	8021B		50	15989	JP	EET ALB	11/15/24 13:07

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-15203-1
Project/Site: Former Y Station Lead Site

Client Sample ID: Trip Blank
Lab Sample ID: 885-15203-5

Date Collected: 11/11/24 00:00
Matrix: Water

Date Received: 11/13/24 11:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	15852	CM	EET ALB	11/13/24 22:01

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-15203-1
Project/Site: Former Y Station Lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8015M/D		Water	Gasoline Range Organics [C6 - C10]
8015M/D	3511	Water	Diesel Range Organics [C10-C28]
8015M/D	3511	Water	Motor Oil Range Organics [C28-C40]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-15203-1
Project/Site: Former Y Station Lead Site

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

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
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

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: R. Villanueva

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF):

HALL ENVIRONM ANALYSIS LABOR

www.hallenvironmental.com

885-15203 COC

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/DRO - EPA method 8015B	Sulfate/Chloride - EPA method 300.0	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
11/11/24	11:15	H_2O	FY Treated Eff	7-40ml, 1-plastic, 1-Amber	HCl, ThiO, H_2SO_4		X	X	X	X	X	X		
11/11/24	11:10	H_2O	FY Raw	7-40ml, 1-plastic, 1-Amber	HCl, ThiO, H_2SO_4		X	X	X	X	X	X		
11/11/24	1420	Air	FY OX Eff	1-Tedlar	None								X	X
11/11/24	1425	Air	FY Comb Inf	1-Tedlar	None								X	X
			Trip Blank - TMC 11/13/24											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/13/24	8:20	Grace Herrmann	[illegible]	FDU	11/13/24	8:20
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

Temp 18.6 -0.1 = 18.5 Yoyi

3.1 -0.1 = 3.0

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.

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-15203-1

Login Number: 15203

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	One cooler didnt have ice, thermal preservation not required.
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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 12/30/2024 6:19:19 PM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-16353-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

my EOL

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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12/30/2024 6:19:19 PM

Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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Client: Daniel B. Stephens & Associates Inc. Job ID: 885-16353-1
Project/Site: Former Y Station State Lead Site

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.

GC 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.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

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.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Job ID: 885-16353-1 Eurofins Albuquerque

Job Narrative
885-16353-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 12/5/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.7°C and 19.2°C.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: Motor Oil Range Organics [C28-C40] was detected above the MDL but below the RL (J-flag) in the method blank associated with preparation batch 885-17332 and analytical batch 885-17588 as well as in the following sample: (MB 885-17332/1-A). Reporting all results as is with Motor Oil Range Organics J-flag.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 2540C_SingleDry: The following samples were prepared outside of preparation holding time due to lab error: FY Treated Eff (885-16353-1) and FY Raw (885-16353-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-16353-1

Client Sample ID: FY Treated Eff
Date Collected: 12/04/24 14:35
Date Received: 12/05/24 08:00

Lab Sample ID: 885-16353-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			12/06/24 15:16	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			12/06/24 15:16	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			12/06/24 15:16	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			12/06/24 15:16	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/06/24 15:16	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/06/24 15:16	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			12/06/24 15:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			12/06/24 15:16	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			12/06/24 15:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/06/24 15:16	1
1,2,4-Trimethylbenzene	**0.16**	**J**	1.0	0.12	ug/L			12/06/24 15:16	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			12/06/24 15:16	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			12/06/24 15:16	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/06/24 15:16	1
1,2-Dichloroethane (EDC)	**1.6**		1.0	0.30	ug/L			12/06/24 15:16	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			12/06/24 15:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			12/06/24 15:16	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			12/06/24 15:16	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			12/06/24 15:16	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			12/06/24 15:16	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			12/06/24 15:16	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			12/06/24 15:16	1
2-Butanone	**5.2**	**J**	10	2.0	ug/L			12/06/24 15:16	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			12/06/24 15:16	1
2-Hexanone	**7.5**	**J**	10	1.8	ug/L			12/06/24 15:16	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			12/06/24 15:16	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			12/06/24 15:16	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			12/06/24 15:16	1
4-Methyl-2-pentanone	**3.7**	**J**	10	1.5	ug/L			12/06/24 15:16	1
Acetone	**13**		10	2.5	ug/L			12/06/24 15:16	1
Benzene	**0.55**	**J**	1.0	0.23	ug/L			12/06/24 15:16	1
Bromobenzene	ND		1.0	0.28	ug/L			12/06/24 15:16	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/06/24 15:16	1
Dibromochloromethane	ND		1.0	0.28	ug/L			12/06/24 15:16	1
Bromoform	ND		1.0	0.31	ug/L			12/06/24 15:16	1
Bromomethane	ND		3.0	1.0	ug/L			12/06/24 15:16	1
Carbon disulfide	ND		10	1.0	ug/L			12/06/24 15:16	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			12/06/24 15:16	1
Chlorobenzene	ND		1.0	0.46	ug/L			12/06/24 15:16	1
Chloroethane	ND		2.0	0.38	ug/L			12/06/24 15:16	1
Chloroform	ND		1.0	0.25	ug/L			12/06/24 15:16	1
Chloromethane	ND		3.0	0.41	ug/L			12/06/24 15:16	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/06/24 15:16	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			12/06/24 15:16	1
Dibromomethane	ND		1.0	0.31	ug/L			12/06/24 15:16	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			12/06/24 15:16	1
Ethylbenzene	ND		1.0	0.21	ug/L			12/06/24 15:16	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			12/06/24 15:16	1
Isopropylbenzene	ND		1.0	0.18	ug/L			12/06/24 15:16	1

Client Sample ID: FY Treated Eff **Lab Sample ID: 885-16353-1**
Date Collected: 12/04/24 14:35 **Matrix: Water**
Date Received: 12/05/24 08:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			12/06/24 15:16	1
Methylene Chloride	ND		2.5	1.2	ug/L			12/06/24 15:16	1
n-Butylbenzene	ND		3.0	0.13	ug/L			12/06/24 15:16	1
N-Propylbenzene	ND		1.0	0.11	ug/L			12/06/24 15:16	1
Naphthalene	**0.62**	**J**	2.0	0.24	ug/L			12/06/24 15:16	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			12/06/24 15:16	1
Styrene	ND		1.0	0.17	ug/L			12/06/24 15:16	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			12/06/24 15:16	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			12/06/24 15:16	1
Toluene	**0.42**	**J**	1.0	0.25	ug/L			12/06/24 15:16	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			12/06/24 15:16	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			12/06/24 15:16	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			12/06/24 15:16	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			12/06/24 15:16	1
Vinyl chloride	ND		1.0	0.32	ug/L			12/06/24 15:16	1
Xylenes, Total	**0.85**	**J**	1.5	0.37	ug/L			12/06/24 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*12/06/24 15:16*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*12/06/24 15:16*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*12/06/24 15:16*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*12/06/24 15:16*	*1*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**0.049**	**J**	0.050	0.013	mg/L			12/05/24 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 270*		*12/05/24 17:53*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.41**		0.047	0.037	ug/L		12/10/24 09:03	12/12/24 12:57	5

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.0**	**B**	1.0	0.58	mg/L		12/09/24 15:03	12/09/24 17:55	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.3	mg/L		12/09/24 15:03	12/09/24 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*46 - 159*	*12/09/24 15:03*	*12/09/24 17:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74**		10	5.0	mg/L			12/06/24 20:49	20
Nitrate as N	**1.3**		0.10	0.020	mg/L			12/05/24 20:32	1
Sulfate	**44**		0.50	0.25	mg/L			12/05/24 20:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**470**	**H**	50	25	mg/L			12/12/24 15:24	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-16353-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Raw
Lab Sample ID: 885-16353-2
Date Collected: 12/04/24 14:30
Matrix: Water
Date Received: 12/05/24 08:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.3	ug/L			12/06/24 16:12	5
1,1,1-Trichloroethane	ND		5.0	0.76	ug/L			12/06/24 16:12	5
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			12/06/24 16:12	5
1,1,2-Trichloroethane	ND		5.0	0.99	ug/L			12/06/24 16:12	5
1,1-Dichloroethane	ND		5.0	1.5	ug/L			12/06/24 16:12	5
1,1-Dichloroethene	ND		5.0	1.0	ug/L			12/06/24 16:12	5
1,1-Dichloropropene	ND		5.0	0.90	ug/L			12/06/24 16:12	5
1,2,3-Trichlorobenzene	ND		5.0	1.2	ug/L			12/06/24 16:12	5
1,2,3-Trichloropropane	ND		10	0.90	ug/L			12/06/24 16:12	5
1,2,4-Trichlorobenzene	ND		5.0	2.0	ug/L			12/06/24 16:12	5
1,2,4-Trimethylbenzene	**29**		5.0	0.61	ug/L			12/06/24 16:12	5
1,2-Dibromo-3-Chloropropane	ND		10	3.7	ug/L			12/06/24 16:12	5
1,2-Dibromoethane (EDB)	**6.3**		5.0	1.5	ug/L			12/06/24 16:12	5
1,2-Dichlorobenzene	ND		5.0	0.77	ug/L			12/06/24 16:12	5
1,2-Dichloroethane (EDC)	**87**		5.0	1.5	ug/L			12/06/24 16:12	5
1,2-Dichloropropane	ND		5.0	1.0	ug/L			12/06/24 16:12	5
1,3,5-Trimethylbenzene	**13**		5.0	0.91	ug/L			12/06/24 16:12	5
1,3-Dichlorobenzene	ND		5.0	0.81	ug/L			12/06/24 16:12	5
1,3-Dichloropropane	ND		5.0	0.90	ug/L			12/06/24 16:12	5
1,4-Dichlorobenzene	ND		5.0	0.55	ug/L			12/06/24 16:12	5
1-Methylnaphthalene	ND		20	10	ug/L			12/06/24 16:12	5
2,2-Dichloropropane	ND		10	1.3	ug/L			12/06/24 16:12	5
2-Butanone	**15**	**J**	50	10	ug/L			12/06/24 16:12	5
2-Chlorotoluene	ND		5.0	0.70	ug/L			12/06/24 16:12	5
2-Hexanone	**11**	**J**	50	9.0	ug/L			12/06/24 16:12	5
2-Methylnaphthalene	ND		20	10	ug/L			12/06/24 16:12	5
4-Chlorotoluene	ND		5.0	0.67	ug/L			12/06/24 16:12	5
4-Isopropyltoluene	ND		5.0	1.0	ug/L			12/06/24 16:12	5
4-Methyl-2-pentanone	**11**	**J**	50	7.5	ug/L			12/06/24 16:12	5
Acetone	ND		50	13	ug/L			12/06/24 16:12	5
Benzene	**370**		5.0	1.1	ug/L			12/06/24 16:12	5
Bromobenzene	ND		5.0	1.4	ug/L			12/06/24 16:12	5
Bromodichloromethane	ND		5.0	1.0	ug/L			12/06/24 16:12	5
Dibromochloromethane	ND		5.0	1.4	ug/L			12/06/24 16:12	5
Bromoform	ND		5.0	1.6	ug/L			12/06/24 16:12	5
Bromomethane	ND		15	5.0	ug/L			12/06/24 16:12	5
Carbon disulfide	ND		50	5.0	ug/L			12/06/24 16:12	5
Carbon tetrachloride	ND		5.0	0.90	ug/L			12/06/24 16:12	5
Chlorobenzene	ND		5.0	2.3	ug/L			12/06/24 16:12	5
Chloroethane	ND		10	1.9	ug/L			12/06/24 16:12	5
Chloroform	ND		5.0	1.3	ug/L			12/06/24 16:12	5
Chloromethane	ND		15	2.1	ug/L			12/06/24 16:12	5
cis-1,2-Dichloroethene	ND		5.0	1.9	ug/L			12/06/24 16:12	5
cis-1,3-Dichloropropene	ND		5.0	0.65	ug/L			12/06/24 16:12	5
Dibromomethane	ND		5.0	1.5	ug/L			12/06/24 16:12	5
Dichlorodifluoromethane	ND		5.0	3.7	ug/L			12/06/24 16:12	5
Ethylbenzene	**17**		5.0	1.1	ug/L			12/06/24 16:12	5
Hexachlorobutadiene	ND		5.0	2.1	ug/L			12/06/24 16:12	5
Isopropylbenzene	**1.5**	**J**	5.0	0.91	ug/L			12/06/24 16:12	5

Client Sample ID: FY Raw
Lab Sample ID: 885-16353-2
Date Collected: 12/04/24 14:30
Matrix: Water
Date Received: 12/05/24 08:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		5.0	2.0	ug/L			12/06/24 16:12	5
Methylene Chloride	ND		13	6.2	ug/L			12/06/24 16:12	5
n-Butylbenzene	ND		15	0.63	ug/L			12/06/24 16:12	5
N-Propylbenzene	**1.3**	**J**	5.0	0.55	ug/L			12/06/24 16:12	5
Naphthalene	**6.8**	**J**	10	1.2	ug/L			12/06/24 16:12	5
sec-Butylbenzene	ND		5.0	0.72	ug/L			12/06/24 16:12	5
Styrene	ND		5.0	0.85	ug/L			12/06/24 16:12	5
tert-Butylbenzene	ND		5.0	1.2	ug/L			12/06/24 16:12	5
Tetrachloroethene (PCE)	ND		5.0	0.89	ug/L			12/06/24 16:12	5
Toluene	**120**		5.0	1.3	ug/L			12/06/24 16:12	5
trans-1,2-Dichloroethene	ND		5.0	0.97	ug/L			12/06/24 16:12	5
trans-1,3-Dichloropropene	ND		5.0	1.7	ug/L			12/06/24 16:12	5
Trichloroethene (TCE)	ND		5.0	1.0	ug/L			12/06/24 16:12	5
Trichlorofluoromethane	ND		5.0	0.79	ug/L			12/06/24 16:12	5
Vinyl chloride	ND		5.0	1.6	ug/L			12/06/24 16:12	5
Xylenes, Total	**190**		7.5	1.9	ug/L			12/06/24 16:12	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*12/06/24 16:12*	*5*
Toluene-d8 (Surr)	*110*		*70 - 130*		*12/06/24 16:12*	*5*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*12/06/24 16:12*	*5*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*12/06/24 16:12*	*5*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**1.7**		0.10	0.026	mg/L			12/05/24 18:16	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 270*		*12/05/24 18:16*	*2*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**6.3**	**D**	0.47	0.38	ug/L		12/10/24 09:03	12/11/24 13:27	50

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.6**	**B**	1.0	0.58	mg/L		12/09/24 15:03	12/09/24 18:07	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.3	mg/L		12/09/24 15:03	12/09/24 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*125*		*46 - 159*	*12/09/24 15:03*	*12/09/24 18:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**71**		10	5.0	mg/L			12/06/24 21:00	20
Nitrate as N	**1.4**		0.10	0.020	mg/L			12/05/24 21:00	1
Sulfate	**40**		0.50	0.25	mg/L			12/05/24 21:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**460**	**H**	50	25	mg/L			12/12/24 15:24	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-16353-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY OX Eff
Lab Sample ID: 885-16353-3
Date Collected: 12/04/24 13:48
Matrix: Air
Date Received: 12/05/24 08:00
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	22		5.0	1.3	ug/L			12/11/24 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*15 - 412*		*12/11/24 13:36*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.30		0.10	0.018	ug/L			12/11/24 13:36	1
Ethylbenzene	0.60		0.10	0.014	ug/L			12/11/24 13:36	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			12/11/24 13:36	1
Toluene	1.9		0.10	0.021	ug/L			12/11/24 13:36	1
Xylenes, Total	3.4		0.20	0.031	ug/L			12/11/24 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*12/11/24 13:36*	*1*

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-16353-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Comb Inf

Lab Sample ID: 885-16353-4

Date Collected: 12/04/24 13:53
Matrix: Air
Date Received: 12/05/24 08:00
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	2600		250	66	ug/L			12/11/24 13:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*15 - 412*		*12/11/24 13:57*	*50*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	17		5.0	0.92	ug/L			12/11/24 13:57	50
Ethylbenzene	16		5.0	0.70	ug/L			12/11/24 13:57	50
Methyl-tert-butyl Ether (MTBE)	ND		13	2.2	ug/L			12/11/24 13:57	50
Toluene	130		5.0	1.0	ug/L			12/11/24 13:57	50
Xylenes, Total	61		10	1.6	ug/L			12/11/24 13:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*12/11/24 13:57*	*50*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-16353-1

Client Sample ID: FY DTA Eff

Date Collected: 12/04/24 14:00
Date Received: 12/05/24 08:00
Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-16353-5

Matrix: Air

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	39		5.0	1.3	ug/L			12/11/24 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 412*		*12/11/24 14:19*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.90		0.10	0.018	ug/L			12/11/24 14:19	1
Ethylbenzene	0.92		0.10	0.014	ug/L			12/11/24 14:19	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			12/11/24 14:19	1
Toluene	3.2		0.10	0.021	ug/L			12/11/24 14:19	1
Xylenes, Total	5.8		0.20	0.031	ug/L			12/11/24 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*12/11/24 14:19*	*1*

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-16353-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: Trip Blank
Lab Sample ID: 885-16353-6
Date Collected: 12/04/24 00:00
Matrix: Water
Date Received: 12/05/24 08:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			12/06/24 16:41	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			12/06/24 16:41	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			12/06/24 16:41	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			12/06/24 16:41	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/06/24 16:41	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/06/24 16:41	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			12/06/24 16:41	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			12/06/24 16:41	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			12/06/24 16:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/06/24 16:41	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			12/06/24 16:41	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			12/06/24 16:41	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			12/06/24 16:41	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/06/24 16:41	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			12/06/24 16:41	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			12/06/24 16:41	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			12/06/24 16:41	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			12/06/24 16:41	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			12/06/24 16:41	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			12/06/24 16:41	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			12/06/24 16:41	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			12/06/24 16:41	1
2-Butanone	ND		10	2.0	ug/L			12/06/24 16:41	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			12/06/24 16:41	1
2-Hexanone	ND		10	1.8	ug/L			12/06/24 16:41	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			12/06/24 16:41	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			12/06/24 16:41	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			12/06/24 16:41	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			12/06/24 16:41	1
Acetone	ND		10	2.5	ug/L			12/06/24 16:41	1
Benzene	ND		1.0	0.23	ug/L			12/06/24 16:41	1
Bromobenzene	ND		1.0	0.28	ug/L			12/06/24 16:41	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/06/24 16:41	1
Dibromochloromethane	ND		1.0	0.28	ug/L			12/06/24 16:41	1
Bromoform	ND		1.0	0.31	ug/L			12/06/24 16:41	1
Bromomethane	ND		3.0	1.0	ug/L			12/06/24 16:41	1
Carbon disulfide	ND		10	1.0	ug/L			12/06/24 16:41	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			12/06/24 16:41	1
Chlorobenzene	ND		1.0	0.46	ug/L			12/06/24 16:41	1
Chloroethane	ND		2.0	0.38	ug/L			12/06/24 16:41	1
Chloroform	ND		1.0	0.25	ug/L			12/06/24 16:41	1
Chloromethane	ND		3.0	0.41	ug/L			12/06/24 16:41	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/06/24 16:41	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			12/06/24 16:41	1
Dibromomethane	ND		1.0	0.31	ug/L			12/06/24 16:41	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			12/06/24 16:41	1
Ethylbenzene	ND		1.0	0.21	ug/L			12/06/24 16:41	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			12/06/24 16:41	1
Isopropylbenzene	ND		1.0	0.18	ug/L			12/06/24 16:41	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-16353-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: Trip Blank
Lab Sample ID: 885-16353-6
Date Collected: 12/04/24 00:00
Matrix: Water
Date Received: 12/05/24 08:00

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			12/06/24 16:41	1
Methylene Chloride	ND		2.5	1.2	ug/L			12/06/24 16:41	1
n-Butylbenzene	ND		3.0	0.13	ug/L			12/06/24 16:41	1
N-Propylbenzene	ND		1.0	0.11	ug/L			12/06/24 16:41	1
Naphthalene	ND		2.0	0.24	ug/L			12/06/24 16:41	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			12/06/24 16:41	1
Styrene	ND		1.0	0.17	ug/L			12/06/24 16:41	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			12/06/24 16:41	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			12/06/24 16:41	1
Toluene	ND		1.0	0.25	ug/L			12/06/24 16:41	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			12/06/24 16:41	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			12/06/24 16:41	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			12/06/24 16:41	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			12/06/24 16:41	1
Vinyl chloride	ND		1.0	0.32	ug/L			12/06/24 16:41	1
Xylenes, Total	ND		1.5	0.37	ug/L			12/06/24 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*12/06/24 16:41*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*12/06/24 16:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/06/24 16:41*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*12/06/24 16:41*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0093	0.0074	ug/L		12/10/24 09:03	12/10/24 15:23	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-17200/4
Matrix: Water
Analysis Batch: 17200

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			12/06/24 12:27	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			12/06/24 12:27	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			12/06/24 12:27	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			12/06/24 12:27	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/06/24 12:27	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/06/24 12:27	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			12/06/24 12:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			12/06/24 12:27	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			12/06/24 12:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/06/24 12:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			12/06/24 12:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			12/06/24 12:27	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			12/06/24 12:27	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/06/24 12:27	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			12/06/24 12:27	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			12/06/24 12:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			12/06/24 12:27	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			12/06/24 12:27	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			12/06/24 12:27	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			12/06/24 12:27	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			12/06/24 12:27	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			12/06/24 12:27	1
2-Butanone	ND		10	2.0	ug/L			12/06/24 12:27	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			12/06/24 12:27	1
2-Hexanone	ND		10	1.8	ug/L			12/06/24 12:27	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			12/06/24 12:27	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			12/06/24 12:27	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			12/06/24 12:27	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			12/06/24 12:27	1
Acetone	ND		10	2.5	ug/L			12/06/24 12:27	1
Benzene	ND		1.0	0.23	ug/L			12/06/24 12:27	1
Bromobenzene	ND		1.0	0.28	ug/L			12/06/24 12:27	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/06/24 12:27	1
Dibromochloromethane	ND		1.0	0.28	ug/L			12/06/24 12:27	1
Bromoform	ND		1.0	0.31	ug/L			12/06/24 12:27	1
Bromomethane	ND		3.0	1.0	ug/L			12/06/24 12:27	1
Carbon disulfide	ND		10	1.0	ug/L			12/06/24 12:27	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			12/06/24 12:27	1
Chlorobenzene	ND		1.0	0.46	ug/L			12/06/24 12:27	1
Chloroethane	ND		2.0	0.38	ug/L			12/06/24 12:27	1
Chloroform	ND		1.0	0.25	ug/L			12/06/24 12:27	1
Chloromethane	ND		3.0	0.41	ug/L			12/06/24 12:27	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/06/24 12:27	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			12/06/24 12:27	1
Dibromomethane	ND		1.0	0.31	ug/L			12/06/24 12:27	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			12/06/24 12:27	1
Ethylbenzene	ND		1.0	0.21	ug/L			12/06/24 12:27	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			12/06/24 12:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-17200/4
Matrix: Water
Analysis Batch: 17200

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.18	ug/L			12/06/24 12:27	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			12/06/24 12:27	1
Methylene Chloride	ND		2.5	1.2	ug/L			12/06/24 12:27	1
n-Butylbenzene	ND		3.0	0.13	ug/L			12/06/24 12:27	1
N-Propylbenzene	ND		1.0	0.11	ug/L			12/06/24 12:27	1
Naphthalene	ND		2.0	0.24	ug/L			12/06/24 12:27	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			12/06/24 12:27	1
Styrene	ND		1.0	0.17	ug/L			12/06/24 12:27	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			12/06/24 12:27	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			12/06/24 12:27	1
Toluene	ND		1.0	0.25	ug/L			12/06/24 12:27	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			12/06/24 12:27	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			12/06/24 12:27	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			12/06/24 12:27	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			12/06/24 12:27	1
Vinyl chloride	ND		1.0	0.32	ug/L			12/06/24 12:27	1
Xylenes, Total	ND		1.5	0.37	ug/L			12/06/24 12:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*12/06/24 12:27*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*12/06/24 12:27*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*12/06/24 12:27*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*12/06/24 12:27*	*1*

Lab Sample ID: LCS 885-17200/3
Matrix: Water
Analysis Batch: 17200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	20.6		ug/L		102	70 - 130		
Benzene			20.1	21.3		ug/L		106	70 - 130		
Chlorobenzene			20.1	21.7		ug/L		108	70 - 130		
Toluene			20.2	21.4		ug/L		106	70 - 130		
Trichloroethene (TCE)			20.2	19.8		ug/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*111*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-17077/7
Matrix: Water
Analysis Batch: 17077

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 [C6 - C10]	ND		0.050	0.013	mg/L			12/05/24 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 270*		*12/05/24 11:56*	*1*

Lab Sample ID: LCS 885-17077/4
Matrix: Water
Analysis Batch: 17077

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 [C6 - C10]	0.500	0.445		mg/L		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*187*		*15 - 270*

Lab Sample ID: MB 885-17488/8
Matrix: Air
Analysis Batch: 17488

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 [C6 - C10]	ND		5.0	1.3	ug/L			12/11/24 12:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*15 - 412*		*12/11/24 12:30*	*1*

Lab Sample ID: LCS 885-17488/7
Matrix: Air
Analysis Batch: 17488

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 [C6 - C10]	50.0	43.3		ug/L		87	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*195*		*15 - 412*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-17489/8
Matrix: Air
Analysis Batch: 17489

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10	0.018	ug/L			12/11/24 12:30	1
Ethylbenzene	ND		0.10	0.014	ug/L			12/11/24 12:30	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			12/11/24 12:30	1
Toluene	ND		0.10	0.021	ug/L			12/11/24 12:30	1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-17489/8
Matrix: Air
Analysis Batch: 17489

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.20	0.031	ug/L			12/11/24 12:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*12/11/24 12:30*	*1*

Lab Sample ID: LCS 885-17489/5
Matrix: Air
Analysis Batch: 17489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.00	1.88		ug/L		94	70 - 130
Ethylbenzene	2.00	1.95		ug/L		97	70 - 130
m&p-Xylene	4.00	3.89		ug/L		97	70 - 130
Methyl-tert-butyl Ether (MTBE)	2.00	1.75		ug/L		87	70 - 130
o-Xylene	2.00	1.95		ug/L		97	70 - 130
Toluene	2.00	1.94		ug/L		97	70 - 130
Xylenes, Total	6.00	5.84		ug/L		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-17371/3-A
Matrix: Water
Analysis Batch: 17393

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17371

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0080	ug/L		12/10/24 09:03	12/10/24 14:12	1

Lab Sample ID: LCS 885-17371/4-A
Matrix: Water
Analysis Batch: 17393

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17371

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.100	0.0971		ug/L		97	70 - 130

Lab Sample ID: LCSD 885-17371/5-A
Matrix: Water
Analysis Batch: 17393

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 17371

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.100	0.102		ug/L		102	70 - 130	4	20

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MRL 885-17371/1-A
Matrix: Water
Analysis Batch: 17393

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17371

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0100	0.0116		ug/L		116	60 - 140

Lab Sample ID: MRL 885-17478/1-A
Matrix: Water
Analysis Batch: 17582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17478

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0100	0.0122		ug/L		122	60 - 140

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-17332/1-A
Matrix: Water
Analysis Batch: 17281

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17332

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.698	J	1.0	0.58	mg/L		12/09/24 15:03	12/09/24 17:31	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.3	mg/L		12/09/24 15:03	12/09/24 17:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*114*		*46 - 159*	*12/09/24 15:03*	*12/09/24 17:31*	*1*

Lab Sample ID: MB 885-17332/1-A
Matrix: Water
Analysis Batch: 17588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17332

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.58	mg/L		12/09/24 15:03	12/13/24 02:40	1
Motor Oil Range Organics [C28-C40]	1.80	J	5.0	1.3	mg/L		12/09/24 15:03	12/13/24 02:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*46 - 159*	*12/09/24 15:03*	*12/13/24 02:40*	*1*

Lab Sample ID: LCS 885-17332/2-A
Matrix: Water
Analysis Batch: 17281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17332

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	2.50	3.34		mg/L		134	57 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*118*		*46 - 159*

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-16353-2 MS
Matrix: Water
Analysis Batch: 17281

Client Sample ID: FY Raw
Prep Type: Total/NA
Prep Batch: 17332

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	1.6	B	2.50	5.23		mg/L		145	33 - 161

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*115*		*46 - 159*

Lab Sample ID: 885-16353-2 MSD
Matrix: Water
Analysis Batch: 17281

Client Sample ID: FY Raw
Prep Type: Total/NA
Prep Batch: 17332

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	1.6	B	2.50	4.99		mg/L		135	33 - 161	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*111*		*46 - 159*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-17071/4
Matrix: Water
Analysis Batch: 17071

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			12/05/24 09:37	1
Sulfate	ND		0.50	0.25	mg/L			12/05/24 09:37	1

Lab Sample ID: LCS 885-17071/5
Matrix: Water
Analysis Batch: 17071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.79		mg/L		96	90 - 110
Sulfate	10.0	9.51		mg/L		95	90 - 110

Lab Sample ID: MRL 885-17071/3
Matrix: Water
Analysis Batch: 17071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.503		mg/L		101	50 - 150
Sulfate	0.500	0.481	J	mg/L		96	50 - 150

Lab Sample ID: MB 885-17072/4
Matrix: Water
Analysis Batch: 17072

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	ND		0.10	0.020	mg/L			12/05/24 09:37	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-17072/5
Matrix: Water
Analysis Batch: 17072

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	2.50	2.52		mg/L		101	90 - 110

Lab Sample ID: MRL 885-17072/3
Matrix: Water
Analysis Batch: 17072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.0939	J	mg/L		94	50 - 150

Lab Sample ID: MB 885-17147/48
Matrix: Water
Analysis Batch: 17147

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			12/06/24 18:03	1
Sulfate	ND		0.50	0.25	mg/L			12/06/24 18:03	1

Lab Sample ID: LCS 885-17147/49
Matrix: Water
Analysis Batch: 17147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.89		mg/L		98	90 - 110
Sulfate	10.0	9.68		mg/L		97	90 - 110

Lab Sample ID: MRL 885-17147/3
Matrix: Water
Analysis Batch: 17147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.529		mg/L		106	50 - 150
Sulfate	0.500	0.520		mg/L		104	50 - 150

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-17665/1
Matrix: Water
Analysis Batch: 17665

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	25	mg/L			12/12/24 15:24	1

Lab Sample ID: LCS 885-17665/2
Matrix: Water
Analysis Batch: 17665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1040		mg/L		104	80 - 120

GC/MS VOA

Analysis Batch: 17200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16353-1	FY Treated Eff	Total/NA	Water	8260B	
885-16353-2	FY Raw	Total/NA	Water	8260B	
885-16353-6	Trip Blank	Total/NA	Water	8260B	
MB 885-17200/4	Method Blank	Total/NA	Water	8260B	
LCS 885-17200/3	Lab Control Sample	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 17077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16353-1	FY Treated Eff	Total/NA	Water	8015M/D	
885-16353-2	FY Raw	Total/NA	Water	8015M/D	
MB 885-17077/7	Method Blank	Total/NA	Water	8015M/D	
LCS 885-17077/4	Lab Control Sample	Total/NA	Water	8015M/D	

Analysis Batch: 17488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16353-3	FY OX Eff	Total/NA	Air	8015M/D	
885-16353-4	FY Comb Inf	Total/NA	Air	8015M/D	
885-16353-5	FY DTA Eff	Total/NA	Air	8015M/D	
MB 885-17488/8	Method Blank	Total/NA	Air	8015M/D	
LCS 885-17488/7	Lab Control Sample	Total/NA	Air	8015M/D	

Analysis Batch: 17489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16353-3	FY OX Eff	Total/NA	Air	8021B	
885-16353-4	FY Comb Inf	Total/NA	Air	8021B	
885-16353-5	FY DTA Eff	Total/NA	Air	8021B	
MB 885-17489/8	Method Blank	Total/NA	Air	8021B	
LCS 885-17489/5	Lab Control Sample	Total/NA	Air	8021B	

GC Semi VOA

Analysis Batch: 17281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16353-1	FY Treated Eff	Total/NA	Water	8015M/D	17332
885-16353-2	FY Raw	Total/NA	Water	8015M/D	17332
MB 885-17332/1-A	Method Blank	Total/NA	Water	8015M/D	17332
LCS 885-17332/2-A	Lab Control Sample	Total/NA	Water	8015M/D	17332
885-16353-2 MS	FY Raw	Total/NA	Water	8015M/D	17332
885-16353-2 MSD	FY Raw	Total/NA	Water	8015M/D	17332

Prep Batch: 17332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16353-1	FY Treated Eff	Total/NA	Water	3511	
885-16353-2	FY Raw	Total/NA	Water	3511	
MB 885-17332/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-17332/2-A	Lab Control Sample	Total/NA	Water	3511	
885-16353-2 MS	FY Raw	Total/NA	Water	3511	
885-16353-2 MSD	FY Raw	Total/NA	Water	3511	

GC Semi VOA

Prep Batch: 17371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16353-1	FY Treated Eff	Total/NA	Water	8011	
885-16353-2	FY Raw	Total/NA	Water	8011	
885-16353-6	Trip Blank	Total/NA	Water	8011	
MB 885-17371/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-17371/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 885-17371/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MRL 885-17371/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 17393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16353-6	Trip Blank	Total/NA	Water	8011	17371
MB 885-17371/3-A	Method Blank	Total/NA	Water	8011	17371
LCS 885-17371/4-A	Lab Control Sample	Total/NA	Water	8011	17371
LCSD 885-17371/5-A	Lab Control Sample Dup	Total/NA	Water	8011	17371
MRL 885-17371/1-A	Lab Control Sample	Total/NA	Water	8011	17371

Prep Batch: 17478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 885-17478/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 17502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16353-2	FY Raw	Total/NA	Water	8011	17371

Analysis Batch: 17582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16353-1	FY Treated Eff	Total/NA	Water	8011	17371
MRL 885-17478/1-A	Lab Control Sample	Total/NA	Water	8011	17478

Analysis Batch: 17588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-17332/1-A	Method Blank	Total/NA	Water	8015M/D	17332

HPLC/IC

Analysis Batch: 17071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16353-1	FY Treated Eff	Total/NA	Water	300.0	
885-16353-2	FY Raw	Total/NA	Water	300.0	
MB 885-17071/4	Method Blank	Total/NA	Water	300.0	
LCS 885-17071/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-17071/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 17072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16353-1	FY Treated Eff	Total/NA	Water	300.0	
885-16353-2	FY Raw	Total/NA	Water	300.0	
MB 885-17072/4	Method Blank	Total/NA	Water	300.0	
LCS 885-17072/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-17072/3	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-16353-1

HPLC/IC

Analysis Batch: 17147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16353-1	FY Treated Eff	Total/NA	Water	300.0	
885-16353-2	FY Raw	Total/NA	Water	300.0	
MB 885-17147/48	Method Blank	Total/NA	Water	300.0	
LCS 885-17147/49	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-17147/3	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 17665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-16353-1	FY Treated Eff	Total/NA	Water	2540C	
885-16353-2	FY Raw	Total/NA	Water	2540C	
MB 885-17665/1	Method Blank	Total/NA	Water	2540C	
LCS 885-17665/2	Lab Control Sample	Total/NA	Water	2540C	

Client Sample ID: FY Treated Eff

Lab Sample ID: 885-16353-1

Date Collected: 12/04/24 14:35

Matrix: Water

Date Received: 12/05/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	17200	RA	EET ALB	12/06/24 15:16
Total/NA	Analysis	8015M/D		1	17077	AT	EET ALB	12/05/24 17:53
Total/NA	Prep	8011			17371	KR	EET ALB	12/10/24 09:03
Total/NA	Analysis	8011		5	17582	KR	EET ALB	12/12/24 12:57
Total/NA	Prep	3511			17332	MI	EET ALB	12/09/24 15:03
Total/NA	Analysis	8015M/D		1	17281	MI	EET ALB	12/09/24 17:55
Total/NA	Analysis	300.0		20	17147	RC	EET ALB	12/06/24 20:49
Total/NA	Analysis	300.0		1	17071	ES	EET ALB	12/05/24 20:32
Total/NA	Analysis	300.0		1	17072	ES	EET ALB	12/05/24 20:32
Total/NA	Analysis	2540C		1	17665	KS	EET ALB	12/12/24 15:24

Client Sample ID: FY Raw

Lab Sample ID: 885-16353-2

Date Collected: 12/04/24 14:30

Matrix: Water

Date Received: 12/05/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	17200	RA	EET ALB	12/06/24 16:12
Total/NA	Analysis	8015M/D		2	17077	AT	EET ALB	12/05/24 18:16
Total/NA	Prep	8011			17371	KR	EET ALB	12/10/24 09:03
Total/NA	Analysis	8011		50	17502	KR	EET ALB	12/11/24 13:27
Total/NA	Prep	3511			17332	MI	EET ALB	12/09/24 15:03
Total/NA	Analysis	8015M/D		1	17281	MI	EET ALB	12/09/24 18:07
Total/NA	Analysis	300.0		20	17147	RC	EET ALB	12/06/24 21:00
Total/NA	Analysis	300.0		1	17071	ES	EET ALB	12/05/24 21:00
Total/NA	Analysis	300.0		1	17072	ES	EET ALB	12/05/24 21:00
Total/NA	Analysis	2540C		1	17665	KS	EET ALB	12/12/24 15:24

Client Sample ID: FY OX Eff

Lab Sample ID: 885-16353-3

Date Collected: 12/04/24 13:48

Matrix: Air

Date Received: 12/05/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	17488	AT	EET ALB	12/11/24 13:36
Total/NA	Analysis	8021B		1	17489	AT	EET ALB	12/11/24 13:36

Client Sample ID: FY Comb Inf

Lab Sample ID: 885-16353-4

Date Collected: 12/04/24 13:53

Matrix: Air

Date Received: 12/05/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	17488	AT	EET ALB	12/11/24 13:57
Total/NA	Analysis	8021B		50	17489	AT	EET ALB	12/11/24 13:57

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-16353-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY DTA Eff
Lab Sample ID: 885-16353-5
Date Collected: 12/04/24 14:00
Matrix: Air
Date Received: 12/05/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	17488	AT	EET ALB	12/11/24 14:19
Total/NA	Analysis	8021B		1	17489	AT	EET ALB	12/11/24 14:19

Client Sample ID: Trip Blank
Lab Sample ID: 885-16353-6
Date Collected: 12/04/24 00:00
Matrix: Water
Date Received: 12/05/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	17200	RA	EET ALB	12/06/24 16:41
Total/NA	Prep	8011			17371	KR	EET ALB	12/10/24 09:03
Total/NA	Analysis	8011		1	17393	KR	EET ALB	12/10/24 15:23

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-16353-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
300.0		Water	Nitrate as N
300.0		Water	Sulfate
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8015M/D		Water	Gasoline Range Organics [C6 - C10]
8015M/D	3511	Water	Diesel Range Organics [C10-C28]
8015M/D	3511	Water	Motor Oil Range Organics [C28-C40]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-16353-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Oregon	NELAP	NM100001	02-25-25

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
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

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

# of Coolers: 2 mp0

Cooler Temp (including CF): 1.4 + 0.3 = 1.7

18.9 + 0.3 = 19.2

HALL ENVIRONMENTAL ANALYSIS LAB

www hallenvironmental com

4901 Hawkins NE - Albuquerque, NM 87109

Tel 505-345-3975 Fax 505-345-4107

885-16353 COC

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/DRO - EPA method 8015B	Sulfate/Chloride - EPA method 300.0	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
12/4/24	14:35	H_2O	FY Treated Eff	7-40ml 1-plastic 1-Amber	HCl, ThiO, H_2SO_4		X	X	X	X	X	X		
	14:30	H_2O	FY Raw	7-40ml 1-plastic 1-Amber	HCl, ThiO, H_2SO_4		X	X	X	X	X	X		
	13:48	Air	FY OX Eff	1-Tedlar	None								X	X
	13:53	Air	FY Comb Inf	1-Tedlar	None								X	X
	14:00	Air	FY DTA Eff	1-Tedlar	None								X	X

Date	Time	Relinquished by	Received by	Via	Date	Time
12/5/24	8:00			CDD	12-5-24	8:00
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

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-16353-1

Login Number: 16353

List Source: Eurofins Albuquerque

List Number: 1

Creator: Alderette, Joseph

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 1/7/2025 1:39:58 PM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-17397-1

Eurofins Albuquerque

Job Notes

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Authorization



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Definitions/Glossary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17397-1
Project/Site: Former Y Station State Lead Site

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.

GC 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.

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
885-17397-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 12/19/2024 3:32 PM. 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 2.4°C.

Receipt Exceptions
The Field Sampler was not listed on the Chain of Custody.

Samples looked exactly the same, labels and times were correct and matched COC. Analysis were performed and results for seperate samples were very similar. Samples were reanalyzed and results were deemed accurate. possible crosscontamination at collection. FY Treated Eff (885-17397-1) and FY Raw (885-17397-2)

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 885-18560 recovered above the upper control limit for Bromomethane, Chloroethane, Chloromethane and Methylene Chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_OF_48H_PREC: The following sample(s) was received by wet chemistry with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: FY Treated Eff (885-17397-1) and FY Raw (885-17397-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 2540C_SingleDry: Reanalysis of the following samples were performed outside of the analytical holding time to run a confirmation, initial analysis performed within HT : FY Treated Eff (885-17397-1) and FY Raw (885-17397-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-17397-1

Client Sample ID: FY Treated Eff

Date Collected: 12/18/24 08:55
Date Received: 12/19/24 15:32

Lab Sample ID: 885-17397-1

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			12/30/24 20:57	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			12/30/24 20:57	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			12/30/24 20:57	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			12/30/24 20:57	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/30/24 20:57	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/30/24 20:57	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			12/30/24 20:57	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			12/30/24 20:57	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			12/30/24 20:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/30/24 20:57	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			12/30/24 20:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			12/30/24 20:57	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			12/30/24 20:57	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/30/24 20:57	1
1,2-Dichloroethane (EDC)	**0.98**	**J**	1.0	0.30	ug/L			12/30/24 20:57	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			12/30/24 20:57	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			12/30/24 20:57	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			12/30/24 20:57	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			12/30/24 20:57	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			12/30/24 20:57	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			12/30/24 20:57	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			12/30/24 20:57	1
2-Butanone	**11**		10	2.0	ug/L			12/30/24 20:57	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			12/30/24 20:57	1
2-Hexanone	ND		10	1.8	ug/L			12/30/24 20:57	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			12/30/24 20:57	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			12/30/24 20:57	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			12/30/24 20:57	1
4-Methyl-2-pentanone	**3.8**	**J**	10	1.5	ug/L			12/30/24 20:57	1
Acetone	**27**		10	2.5	ug/L			12/30/24 20:57	1
Benzene	**0.67**	**J**	1.0	0.23	ug/L			12/30/24 20:57	1
Bromobenzene	ND		1.0	0.28	ug/L			12/30/24 20:57	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/30/24 20:57	1
Dibromochloromethane	ND		1.0	0.28	ug/L			12/30/24 20:57	1
Bromoform	ND		1.0	0.31	ug/L			12/30/24 20:57	1
Bromomethane	ND		3.0	1.0	ug/L			12/30/24 20:57	1
Carbon disulfide	ND		10	1.0	ug/L			12/30/24 20:57	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			12/30/24 20:57	1
Chlorobenzene	ND		1.0	0.46	ug/L			12/30/24 20:57	1
Chloroethane	ND		2.0	0.38	ug/L			12/30/24 20:57	1
Chloroform	ND		1.0	0.25	ug/L			12/30/24 20:57	1
Chloromethane	ND		3.0	0.41	ug/L			12/30/24 20:57	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/30/24 20:57	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			12/30/24 20:57	1
Dibromomethane	ND		1.0	0.31	ug/L			12/30/24 20:57	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			12/30/24 20:57	1
Ethylbenzene	ND		1.0	0.21	ug/L			12/30/24 20:57	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			12/30/24 20:57	1
Isopropylbenzene	ND		1.0	0.18	ug/L			12/30/24 20:57	1

Client Sample ID: FY Treated Eff
Date Collected: 12/18/24 08:55
Date Received: 12/19/24 15:32

Lab Sample ID: 885-17397-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			12/30/24 20:57	1
Methylene Chloride	ND		2.5	1.2	ug/L			12/30/24 20:57	1
n-Butylbenzene	ND		3.0	0.13	ug/L			12/30/24 20:57	1
N-Propylbenzene	ND		1.0	0.11	ug/L			12/30/24 20:57	1
Naphthalene	**0.43**	**J**	2.0	0.24	ug/L			12/30/24 20:57	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			12/30/24 20:57	1
Styrene	ND		1.0	0.17	ug/L			12/30/24 20:57	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			12/30/24 20:57	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			12/30/24 20:57	1
Toluene	ND		1.0	0.25	ug/L			12/30/24 20:57	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			12/30/24 20:57	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			12/30/24 20:57	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			12/30/24 20:57	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			12/30/24 20:57	1
Vinyl chloride	ND		1.0	0.32	ug/L			12/30/24 20:57	1
Xylenes, Total	ND		1.5	0.37	ug/L			12/30/24 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*127*		*70 - 130*		*12/30/24 20:57*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*12/30/24 20:57*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*12/30/24 20:57*	*1*
Dibromofluoromethane (Surr)	*120*		*70 - 130*		*12/30/24 20:57*	*1*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**0.025**	**J**	0.050	0.013	mg/L			12/26/24 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 270*		*12/26/24 23:00*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.011**		0.0094	0.0075	ug/L		12/30/24 08:14	01/03/25 00:57	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.58	mg/L		12/24/24 09:18	01/01/25 05:58	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.3	mg/L		12/24/24 09:18	01/01/25 05:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*46 - 159*	*12/24/24 09:18*	*01/01/25 05:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66**		10	5.0	mg/L			12/20/24 20:15	20
Nitrate as N	**1.1**	**H**	0.10	0.020	mg/L			12/20/24 20:01	1
Sulfate	**37**		0.50	0.25	mg/L			12/20/24 20:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**400**		50	25	mg/L			12/24/24 14:13	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-17397-1

Client Sample ID: FY Raw

Date Collected: 12/18/24 08:50
Date Received: 12/19/24 15:32

Lab Sample ID: 885-17397-2

Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.3	ug/L			12/30/24 21:46	5
1,1,1-Trichloroethane	ND		5.0	0.76	ug/L			12/30/24 21:46	5
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			12/30/24 21:46	5
1,1,2-Trichloroethane	ND		5.0	0.99	ug/L			12/30/24 21:46	5
1,1-Dichloroethane	ND		5.0	1.5	ug/L			12/30/24 21:46	5
1,1-Dichloroethene	ND		5.0	1.0	ug/L			12/30/24 21:46	5
1,1-Dichloropropene	ND		5.0	0.90	ug/L			12/30/24 21:46	5
1,2,3-Trichlorobenzene	ND		5.0	1.2	ug/L			12/30/24 21:46	5
1,2,3-Trichloropropane	ND		10	0.90	ug/L			12/30/24 21:46	5
1,2,4-Trichlorobenzene	ND		5.0	2.0	ug/L			12/30/24 21:46	5
1,2,4-Trimethylbenzene	**16**		5.0	0.61	ug/L			12/30/24 21:46	5
1,2-Dibromo-3-Chloropropane	ND		10	3.7	ug/L			12/30/24 21:46	5
1,2-Dibromoethane (EDB)	ND		5.0	1.5	ug/L			12/30/24 21:46	5
1,2-Dichlorobenzene	ND		5.0	0.77	ug/L			12/30/24 21:46	5
1,2-Dichloroethane (EDC)	**100**		5.0	1.5	ug/L			12/30/24 21:46	5
1,2-Dichloropropane	ND		5.0	1.0	ug/L			12/30/24 21:46	5
1,3,5-Trimethylbenzene	**5.7**		5.0	0.91	ug/L			12/30/24 21:46	5
1,3-Dichlorobenzene	ND		5.0	0.81	ug/L			12/30/24 21:46	5
1,3-Dichloropropane	ND		5.0	0.90	ug/L			12/30/24 21:46	5
1,4-Dichlorobenzene	ND		5.0	0.55	ug/L			12/30/24 21:46	5
1-Methylnaphthalene	ND		20	10	ug/L			12/30/24 21:46	5
2,2-Dichloropropane	ND		10	1.3	ug/L			12/30/24 21:46	5
2-Butanone	**20**	**J**	50	10	ug/L			12/30/24 21:46	5
2-Chlorotoluene	ND		5.0	0.70	ug/L			12/30/24 21:46	5
2-Hexanone	ND		50	9.0	ug/L			12/30/24 21:46	5
2-Methylnaphthalene	ND		20	10	ug/L			12/30/24 21:46	5
4-Chlorotoluene	ND		5.0	0.67	ug/L			12/30/24 21:46	5
4-Isopropyltoluene	ND		5.0	1.0	ug/L			12/30/24 21:46	5
4-Methyl-2-pentanone	**11**	**J**	50	7.5	ug/L			12/30/24 21:46	5
Acetone	**40**	**J**	50	13	ug/L			12/30/24 21:46	5
Benzene	**690**		50	11	ug/L			12/30/24 21:21	50
Bromobenzene	ND		5.0	1.4	ug/L			12/30/24 21:46	5
Bromodichloromethane	ND		5.0	1.0	ug/L			12/30/24 21:46	5
Dibromochloromethane	ND		5.0	1.4	ug/L			12/30/24 21:46	5
Bromoform	ND		5.0	1.6	ug/L			12/30/24 21:46	5
Bromomethane	ND		15	5.0	ug/L			12/30/24 21:46	5
Carbon disulfide	ND		50	5.0	ug/L			12/30/24 21:46	5
Carbon tetrachloride	ND		5.0	0.90	ug/L			12/30/24 21:46	5
Chlorobenzene	ND		5.0	2.3	ug/L			12/30/24 21:46	5
Chloroethane	ND		10	1.9	ug/L			12/30/24 21:46	5
Chloroform	ND		5.0	1.3	ug/L			12/30/24 21:46	5
Chloromethane	ND		15	2.1	ug/L			12/30/24 21:46	5
cis-1,2-Dichloroethene	ND		5.0	1.9	ug/L			12/30/24 21:46	5
cis-1,3-Dichloropropene	ND		5.0	0.65	ug/L			12/30/24 21:46	5
Dibromomethane	ND		5.0	1.5	ug/L			12/30/24 21:46	5
Dichlorodifluoromethane	ND		5.0	3.7	ug/L			12/30/24 21:46	5
Ethylbenzene	**18**		5.0	1.1	ug/L			12/30/24 21:46	5
Hexachlorobutadiene	ND		5.0	2.1	ug/L			12/30/24 21:46	5
Isopropylbenzene	**2.5**	**J**	5.0	0.91	ug/L			12/30/24 21:46	5

Client Sample ID: FY Raw
Date Collected: 12/18/24 08:50
Date Received: 12/19/24 15:32

Lab Sample ID: 885-17397-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		5.0	2.0	ug/L			12/30/24 21:46	5
Methylene Chloride	ND		13	6.2	ug/L			12/30/24 21:46	5
n-Butylbenzene	ND		15	0.63	ug/L			12/30/24 21:46	5
N-Propylbenzene	**2.3**	**J**	5.0	0.55	ug/L			12/30/24 21:46	5
Naphthalene	**5.7**	**J**	10	1.2	ug/L			12/30/24 21:46	5
sec-Butylbenzene	ND		5.0	0.72	ug/L			12/30/24 21:46	5
Styrene	ND		5.0	0.85	ug/L			12/30/24 21:46	5
tert-Butylbenzene	ND		5.0	1.2	ug/L			12/30/24 21:46	5
Tetrachloroethene (PCE)	ND		5.0	0.89	ug/L			12/30/24 21:46	5
Toluene	**6.2**		5.0	1.3	ug/L			12/30/24 21:46	5
trans-1,2-Dichloroethene	ND		5.0	0.97	ug/L			12/30/24 21:46	5
trans-1,3-Dichloropropene	ND		5.0	1.7	ug/L			12/30/24 21:46	5
Trichloroethene (TCE)	ND		5.0	1.0	ug/L			12/30/24 21:46	5
Trichlorofluoromethane	ND		5.0	0.79	ug/L			12/30/24 21:46	5
Vinyl chloride	ND		5.0	1.6	ug/L			12/30/24 21:46	5
Xylenes, Total	**42**		7.5	1.9	ug/L			12/30/24 21:46	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*		*12/30/24 21:46*	*5*
Toluene-d8 (Surr)	*95*		*70 - 130*		*12/30/24 21:46*	*5*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*12/30/24 21:46*	*5*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*12/30/24 21:46*	*5*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**3.0**		0.050	0.013	mg/L			12/26/24 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*		*15 - 270*		*12/26/24 23:22*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.14**		0.0096	0.0077	ug/L		12/30/24 08:14	01/03/25 01:11	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.58	mg/L		12/24/24 09:18	01/01/25 06:08	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.3	mg/L		12/24/24 09:18	01/01/25 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*109*		*46 - 159*	*12/24/24 09:18*	*01/01/25 06:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67**		10	5.0	mg/L			12/20/24 22:04	20
Nitrate as N	**1.6**	**H**	0.10	0.020	mg/L			12/20/24 21:23	1
Sulfate	**42**		0.50	0.25	mg/L			12/20/24 21:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**400**		50	25	mg/L			12/24/24 14:13	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-18560/8
Matrix: Water
Analysis Batch: 18560

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			12/30/24 13:07	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			12/30/24 13:07	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			12/30/24 13:07	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			12/30/24 13:07	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/30/24 13:07	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/30/24 13:07	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			12/30/24 13:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			12/30/24 13:07	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			12/30/24 13:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/30/24 13:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			12/30/24 13:07	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			12/30/24 13:07	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			12/30/24 13:07	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/30/24 13:07	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			12/30/24 13:07	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			12/30/24 13:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			12/30/24 13:07	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			12/30/24 13:07	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			12/30/24 13:07	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			12/30/24 13:07	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			12/30/24 13:07	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			12/30/24 13:07	1
2-Butanone	ND		10	2.0	ug/L			12/30/24 13:07	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			12/30/24 13:07	1
2-Hexanone	ND		10	1.8	ug/L			12/30/24 13:07	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			12/30/24 13:07	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			12/30/24 13:07	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			12/30/24 13:07	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			12/30/24 13:07	1
Acetone	ND		10	2.5	ug/L			12/30/24 13:07	1
Benzene	ND		1.0	0.23	ug/L			12/30/24 13:07	1
Bromobenzene	ND		1.0	0.28	ug/L			12/30/24 13:07	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/30/24 13:07	1
Dibromochloromethane	ND		1.0	0.28	ug/L			12/30/24 13:07	1
Bromoform	ND		1.0	0.31	ug/L			12/30/24 13:07	1
Bromomethane	ND		3.0	1.0	ug/L			12/30/24 13:07	1
Carbon disulfide	ND		10	1.0	ug/L			12/30/24 13:07	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			12/30/24 13:07	1
Chlorobenzene	ND		1.0	0.46	ug/L			12/30/24 13:07	1
Chloroethane	ND		2.0	0.38	ug/L			12/30/24 13:07	1
Chloroform	ND		1.0	0.25	ug/L			12/30/24 13:07	1
Chloromethane	ND		3.0	0.41	ug/L			12/30/24 13:07	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/30/24 13:07	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			12/30/24 13:07	1
Dibromomethane	ND		1.0	0.31	ug/L			12/30/24 13:07	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			12/30/24 13:07	1
Ethylbenzene	ND		1.0	0.21	ug/L			12/30/24 13:07	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			12/30/24 13:07	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-18560/8
Matrix: Water
Analysis Batch: 18560

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.18	ug/L			12/30/24 13:07	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			12/30/24 13:07	1
Methylene Chloride	ND		2.5	1.2	ug/L			12/30/24 13:07	1
n-Butylbenzene	ND		3.0	0.13	ug/L			12/30/24 13:07	1
N-Propylbenzene	ND		1.0	0.11	ug/L			12/30/24 13:07	1
Naphthalene	ND		2.0	0.24	ug/L			12/30/24 13:07	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			12/30/24 13:07	1
Styrene	ND		1.0	0.17	ug/L			12/30/24 13:07	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			12/30/24 13:07	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			12/30/24 13:07	1
Toluene	ND		1.0	0.25	ug/L			12/30/24 13:07	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			12/30/24 13:07	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			12/30/24 13:07	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			12/30/24 13:07	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			12/30/24 13:07	1
Vinyl chloride	ND		1.0	0.32	ug/L			12/30/24 13:07	1
Xylenes, Total	ND		1.5	0.37	ug/L			12/30/24 13:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*		*12/30/24 13:07*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*12/30/24 13:07*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*12/30/24 13:07*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*12/30/24 13:07*	*1*

Lab Sample ID: STOBLK 885-18560/29
Matrix: Water
Analysis Batch: 18560

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	STOBLK Result	STOBLK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			12/30/24 22:11	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			12/30/24 22:11	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			12/30/24 22:11	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			12/30/24 22:11	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/30/24 22:11	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/30/24 22:11	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			12/30/24 22:11	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			12/30/24 22:11	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			12/30/24 22:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/30/24 22:11	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			12/30/24 22:11	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			12/30/24 22:11	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			12/30/24 22:11	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/30/24 22:11	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			12/30/24 22:11	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			12/30/24 22:11	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			12/30/24 22:11	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			12/30/24 22:11	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			12/30/24 22:11	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: STOBLK 885-18560/29
Matrix: Water
Analysis Batch: 18560

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	STOBLK Result	STOBLK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			12/30/24 22:11	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			12/30/24 22:11	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			12/30/24 22:11	1
2-Butanone	ND		10	2.0	ug/L			12/30/24 22:11	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			12/30/24 22:11	1
2-Hexanone	ND		10	1.8	ug/L			12/30/24 22:11	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			12/30/24 22:11	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			12/30/24 22:11	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			12/30/24 22:11	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			12/30/24 22:11	1
Acetone	ND		10	2.5	ug/L			12/30/24 22:11	1
Benzene	ND		1.0	0.23	ug/L			12/30/24 22:11	1
Bromobenzene	ND		1.0	0.28	ug/L			12/30/24 22:11	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/30/24 22:11	1
Dibromochloromethane	ND		1.0	0.28	ug/L			12/30/24 22:11	1
Bromoform	ND		1.0	0.31	ug/L			12/30/24 22:11	1
Bromomethane	ND		3.0	1.0	ug/L			12/30/24 22:11	1
Carbon disulfide	ND		10	1.0	ug/L			12/30/24 22:11	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			12/30/24 22:11	1
Chlorobenzene	ND		1.0	0.46	ug/L			12/30/24 22:11	1
Chloroethane	ND		2.0	0.38	ug/L			12/30/24 22:11	1
Chloroform	ND		1.0	0.25	ug/L			12/30/24 22:11	1
Chloromethane	ND		3.0	0.41	ug/L			12/30/24 22:11	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/30/24 22:11	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			12/30/24 22:11	1
Dibromomethane	ND		1.0	0.31	ug/L			12/30/24 22:11	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			12/30/24 22:11	1
Ethylbenzene	ND		1.0	0.21	ug/L			12/30/24 22:11	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			12/30/24 22:11	1
Isopropylbenzene	ND		1.0	0.18	ug/L			12/30/24 22:11	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			12/30/24 22:11	1
Methylene Chloride	ND		2.5	1.2	ug/L			12/30/24 22:11	1
n-Butylbenzene	ND		3.0	0.13	ug/L			12/30/24 22:11	1
N-Propylbenzene	ND		1.0	0.11	ug/L			12/30/24 22:11	1
Naphthalene	ND		2.0	0.24	ug/L			12/30/24 22:11	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			12/30/24 22:11	1
Styrene	ND		1.0	0.17	ug/L			12/30/24 22:11	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			12/30/24 22:11	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			12/30/24 22:11	1
Toluene	ND		1.0	0.25	ug/L			12/30/24 22:11	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			12/30/24 22:11	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			12/30/24 22:11	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			12/30/24 22:11	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			12/30/24 22:11	1
Vinyl chloride	ND		1.0	0.32	ug/L			12/30/24 22:11	1
Xylenes, Total	ND		1.5	0.37	ug/L			12/30/24 22:11	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: STOBLK 885-18560/29
Matrix: Water
Analysis Batch: 18560

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	STOBLK %Recovery	STOBLK Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	125		70 - 130		12/30/24 22:11	1
Toluene-d8 (Surr)	95		70 - 130		12/30/24 22:11	1
4-Bromofluorobenzene (Surr)	97		70 - 130		12/30/24 22:11	1
Dibromofluoromethane (Surr)	119		70 - 130		12/30/24 22:11	1

Lab Sample ID: STOBLK 885-18560/30
Matrix: Water
Analysis Batch: 18560

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	STOBLK Result	STOBLK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			12/30/24 22:36	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			12/30/24 22:36	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			12/30/24 22:36	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			12/30/24 22:36	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/30/24 22:36	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/30/24 22:36	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			12/30/24 22:36	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			12/30/24 22:36	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			12/30/24 22:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/30/24 22:36	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			12/30/24 22:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			12/30/24 22:36	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			12/30/24 22:36	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/30/24 22:36	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			12/30/24 22:36	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			12/30/24 22:36	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			12/30/24 22:36	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			12/30/24 22:36	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			12/30/24 22:36	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			12/30/24 22:36	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			12/30/24 22:36	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			12/30/24 22:36	1
2-Butanone	ND		10	2.0	ug/L			12/30/24 22:36	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			12/30/24 22:36	1
2-Hexanone	ND		10	1.8	ug/L			12/30/24 22:36	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			12/30/24 22:36	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			12/30/24 22:36	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			12/30/24 22:36	1
4-Methyl-2-pentanone	1.90	J	10	1.5	ug/L			12/30/24 22:36	1
Acetone	ND		10	2.5	ug/L			12/30/24 22:36	1
Benzene	ND		1.0	0.23	ug/L			12/30/24 22:36	1
Bromobenzene	ND		1.0	0.28	ug/L			12/30/24 22:36	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/30/24 22:36	1
Dibromochloromethane	ND		1.0	0.28	ug/L			12/30/24 22:36	1
Bromoform	ND		1.0	0.31	ug/L			12/30/24 22:36	1
Bromomethane	ND		3.0	1.0	ug/L			12/30/24 22:36	1
Carbon disulfide	ND		10	1.0	ug/L			12/30/24 22:36	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			12/30/24 22:36	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: STOBLK 885-18560/30
Matrix: Water
Analysis Batch: 18560

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	STOBLK Result	STOBLK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.46	ug/L			12/30/24 22:36	1
Chloroethane	ND		2.0	0.38	ug/L			12/30/24 22:36	1
Chloroform	ND		1.0	0.25	ug/L			12/30/24 22:36	1
Chloromethane	ND		3.0	0.41	ug/L			12/30/24 22:36	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/30/24 22:36	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			12/30/24 22:36	1
Dibromomethane	ND		1.0	0.31	ug/L			12/30/24 22:36	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			12/30/24 22:36	1
Ethylbenzene	ND		1.0	0.21	ug/L			12/30/24 22:36	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			12/30/24 22:36	1
Isopropylbenzene	ND		1.0	0.18	ug/L			12/30/24 22:36	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			12/30/24 22:36	1
Methylene Chloride	ND		2.5	1.2	ug/L			12/30/24 22:36	1
n-Butylbenzene	ND		3.0	0.13	ug/L			12/30/24 22:36	1
N-Propylbenzene	ND		1.0	0.11	ug/L			12/30/24 22:36	1
Naphthalene	ND		2.0	0.24	ug/L			12/30/24 22:36	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			12/30/24 22:36	1
Styrene	ND		1.0	0.17	ug/L			12/30/24 22:36	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			12/30/24 22:36	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			12/30/24 22:36	1
Toluene	ND		1.0	0.25	ug/L			12/30/24 22:36	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			12/30/24 22:36	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			12/30/24 22:36	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			12/30/24 22:36	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			12/30/24 22:36	1
Vinyl chloride	ND		1.0	0.32	ug/L			12/30/24 22:36	1
Xylenes, Total	ND		1.5	0.37	ug/L			12/30/24 22:36	1

Surrogate	*STOBLK %Recovery*	*STOBLK Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)					*12/30/24 22:36*	*1*
Toluene-d8 (Surr)					*12/30/24 22:36*	*1*
4-Bromofluorobenzene (Surr)					*12/30/24 22:36*	*1*
Dibromofluoromethane (Surr)					*12/30/24 22:36*	*1*

Lab Sample ID: LCS 885-18560/7
Matrix: Water
Analysis Batch: 18560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.1	17.4		ug/L		86	70 - 130
Benzene	20.1	20.8		ug/L		104	70 - 130
Chlorobenzene	20.1	20.2		ug/L		101	70 - 130
Toluene	20.2	19.4		ug/L		96	70 - 130
Trichloroethene (TCE)	20.2	19.7		ug/L		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 885-18560/7 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18560

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	112		70 - 130

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-18495/26 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050	0.013	mg/L			12/26/24 21:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 270		12/26/24 21:12	1

Lab Sample ID: LCS 885-18495/25 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	0.500	0.478		mg/L		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	196		15 - 270

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-18536/3-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18738 — **Prep Batch: 18536**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0080	ug/L		12/30/24 08:14	01/02/25 21:39	1

Lab Sample ID: LCS 885-18536/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18738 — **Prep Batch: 18536**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.100	0.110		ug/L		110	70 - 130

Lab Sample ID: LCSD 885-18536/5-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18738 — **Prep Batch: 18536**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.100	0.115		ug/L		115	70 - 130	5	20

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MRL 885-18536/1-A
Matrix: Water
Analysis Batch: 18738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18536

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0100	0.0139		ug/L		139	60 - 140

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-18408/1-A
Matrix: Water
Analysis Batch: 18540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18408

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.58	mg/L		12/24/24 09:17	01/01/25 04:54	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.3	mg/L		12/24/24 09:17	01/01/25 04:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*116*		*46 - 159*	*12/24/24 09:17*	*01/01/25 04:54*	*1*

Lab Sample ID: LCS 885-18408/2-A
Matrix: Water
Analysis Batch: 18540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18408

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	2.50	2.95		mg/L		118	57 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*124*		*46 - 159*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-18180/4
Matrix: Water
Analysis Batch: 18180

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			12/20/24 08:11	1
Sulfate	ND		0.50	0.25	mg/L			12/20/24 08:11	1

Lab Sample ID: MB 885-18180/58
Matrix: Water
Analysis Batch: 18180

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			12/20/24 20:28	1
Sulfate	ND		0.50	0.25	mg/L			12/20/24 20:28	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-18180/5
Matrix: Water
Analysis Batch: 18180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.91		mg/L		98	90 - 110
Sulfate	10.0	9.74		mg/L		97	90 - 110

Lab Sample ID: LCS 885-18180/59
Matrix: Water
Analysis Batch: 18180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.90		mg/L		98	90 - 110
Sulfate	10.0	9.74		mg/L		97	90 - 110

Lab Sample ID: MRL 885-18180/3
Matrix: Water
Analysis Batch: 18180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.524		mg/L		105	50 - 150
Sulfate	0.500	0.520		mg/L		104	50 - 150

Lab Sample ID: MB 885-18181/4
Matrix: Water
Analysis Batch: 18181

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	ND		0.10	0.020	mg/L			12/20/24 08:11	1

Lab Sample ID: MB 885-18181/58
Matrix: Water
Analysis Batch: 18181

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	ND		0.10	0.020	mg/L			12/20/24 20:28	1

Lab Sample ID: LCS 885-18181/5
Matrix: Water
Analysis Batch: 18181

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	2.50	2.60		mg/L		104	90 - 110

Lab Sample ID: LCS 885-18181/59
Matrix: Water
Analysis Batch: 18181

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	2.50	2.60		mg/L		104	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 885-18181/3
Matrix: Water
Analysis Batch: 18181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.100	0.102		mg/L		102	50 - 150		

Lab Sample ID: 885-17397-2 MS
Matrix: Water
Analysis Batch: 18181

Client Sample ID: FY Raw
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	1.6	H	2.50	4.20		mg/L		102	80 - 120		

Lab Sample ID: 885-17397-2 MSD
Matrix: Water
Analysis Batch: 18181

Client Sample ID: FY Raw
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	1.6	H	2.50	4.21		mg/L		103	80 - 120	0	20

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-18439/1
Matrix: Water
Analysis Batch: 18439

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	25	mg/L			12/24/24 14:13	1

Lab Sample ID: LCS 885-18439/2
Matrix: Water
Analysis Batch: 18439

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	997		mg/L		100	80 - 120		

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-17397-1

GC/MS VOA

Analysis Batch: 18560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17397-1	FY Treated Eff	Total/NA	Water	8260B	
885-17397-2	FY Raw	Total/NA	Water	8260B	
885-17397-2	FY Raw	Total/NA	Water	8260B	
MB 885-18560/8	Method Blank	Total/NA	Water	8260B	
STOBLK 885-18560/29	Method Blank	Total/NA	Water	8260B	
STOBLK 885-18560/30	Method Blank	Total/NA	Water	8260B	
LCS 885-18560/7	Lab Control Sample	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 18495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17397-1	FY Treated Eff	Total/NA	Water	8015M/D	
885-17397-2	FY Raw	Total/NA	Water	8015M/D	
MB 885-18495/26	Method Blank	Total/NA	Water	8015M/D	
LCS 885-18495/25	Lab Control Sample	Total/NA	Water	8015M/D	

GC Semi VOA

Prep Batch: 18408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17397-1	FY Treated Eff	Total/NA	Water	3511	
885-17397-2	FY Raw	Total/NA	Water	3511	
MB 885-18408/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-18408/2-A	Lab Control Sample	Total/NA	Water	3511	

Prep Batch: 18536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17397-1	FY Treated Eff	Total/NA	Water	8011	
885-17397-2	FY Raw	Total/NA	Water	8011	
MB 885-18536/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-18536/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 885-18536/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MRL 885-18536/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 18540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17397-1	FY Treated Eff	Total/NA	Water	8015M/D	18408
885-17397-2	FY Raw	Total/NA	Water	8015M/D	18408
MB 885-18408/1-A	Method Blank	Total/NA	Water	8015M/D	18408
LCS 885-18408/2-A	Lab Control Sample	Total/NA	Water	8015M/D	18408

Analysis Batch: 18738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17397-1	FY Treated Eff	Total/NA	Water	8011	18536
885-17397-2	FY Raw	Total/NA	Water	8011	18536
MB 885-18536/3-A	Method Blank	Total/NA	Water	8011	18536
LCS 885-18536/4-A	Lab Control Sample	Total/NA	Water	8011	18536
LCSD 885-18536/5-A	Lab Control Sample Dup	Total/NA	Water	8011	18536
MRL 885-18536/1-A	Lab Control Sample	Total/NA	Water	8011	18536

HPLC/IC

Analysis Batch: 18180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17397-1	FY Treated Eff	Total/NA	Water	300.0	
885-17397-1	FY Treated Eff	Total/NA	Water	300.0	
885-17397-2	FY Raw	Total/NA	Water	300.0	
885-17397-2	FY Raw	Total/NA	Water	300.0	
MB 885-18180/4	Method Blank	Total/NA	Water	300.0	
MB 885-18180/58	Method Blank	Total/NA	Water	300.0	
LCS 885-18180/5	Lab Control Sample	Total/NA	Water	300.0	
LCS 885-18180/59	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-18180/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 18181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17397-1	FY Treated Eff	Total/NA	Water	300.0	
885-17397-2	FY Raw	Total/NA	Water	300.0	
MB 885-18181/4	Method Blank	Total/NA	Water	300.0	
MB 885-18181/58	Method Blank	Total/NA	Water	300.0	
LCS 885-18181/5	Lab Control Sample	Total/NA	Water	300.0	
LCS 885-18181/59	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-18181/3	Lab Control Sample	Total/NA	Water	300.0	
885-17397-2 MS	FY Raw	Total/NA	Water	300.0	
885-17397-2 MSD	FY Raw	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 18439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17397-1	FY Treated Eff	Total/NA	Water	2540C	
885-17397-2	FY Raw	Total/NA	Water	2540C	
MB 885-18439/1	Method Blank	Total/NA	Water	2540C	
LCS 885-18439/2	Lab Control Sample	Total/NA	Water	2540C	

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-17397-1

Client Sample ID: FY Treated Eff

Lab Sample ID: 885-17397-1

Date Collected: 12/18/24 08:55
Date Received: 12/19/24 15:32

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18560	CM	EET ALB	12/30/24 20:57
Total/NA	Analysis	8015M/D		1	18495	AT	EET ALB	12/26/24 23:00
Total/NA	Prep	8011			18536	KR	EET ALB	12/30/24 08:14
Total/NA	Analysis	8011		1	18738	KR	EET ALB	01/03/25 00:57
Total/NA	Prep	3511			18408	DH	EET ALB	12/24/24 09:18
Total/NA	Analysis	8015M/D		1	18540	EM	EET ALB	01/01/25 05:58
Total/NA	Analysis	300.0		1	18180	ES	EET ALB	12/20/24 20:01
Total/NA	Analysis	300.0		1	18181	ES	EET ALB	12/20/24 20:01
Total/NA	Analysis	300.0		20	18180	ES	EET ALB	12/20/24 20:15
Total/NA	Analysis	2540C		1	18439	KB	EET ALB	12/24/24 14:13

Client Sample ID: FY Raw

Lab Sample ID: 885-17397-2

Date Collected: 12/18/24 08:50
Date Received: 12/19/24 15:32

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		50	18560	CM	EET ALB	12/30/24 21:21
Total/NA	Analysis	8260B		5	18560	CM	EET ALB	12/30/24 21:46
Total/NA	Analysis	8015M/D		1	18495	AT	EET ALB	12/26/24 23:22
Total/NA	Prep	8011			18536	KR	EET ALB	12/30/24 08:14
Total/NA	Analysis	8011		1	18738	KR	EET ALB	01/03/25 01:11
Total/NA	Prep	3511			18408	DH	EET ALB	12/24/24 09:18
Total/NA	Analysis	8015M/D		1	18540	EM	EET ALB	01/01/25 06:08
Total/NA	Analysis	300.0		1	18180	ES	EET ALB	12/20/24 21:23
Total/NA	Analysis	300.0		1	18181	ES	EET ALB	12/20/24 21:23
Total/NA	Analysis	300.0		20	18180	ES	EET ALB	12/20/24 22:04
Total/NA	Analysis	2540C		1	18439	KB	EET ALB	12/24/24 14:13

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17397-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
300.0		Water	Nitrate as N
300.0		Water	Sulfate
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Water	Gasoline Range Organics [C6 - C10]
8015M/D	3511	Water	Diesel Range Organics [C10-C28]
8015M/D	3511	Water	Motor Oil Range Organics [C28-C40]
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17397-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Oregon	NELAP	NM100001	02-25-25

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
8011	8011	Water	1,2-Dibromoethane (EDB)

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.

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.9 +0=2.9 °C

HALL ENVIRONMENTAL ANALYSIS LABORAT

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel 505-345-3975 Fax 505-345-4107

885-17397 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO/DRO - EPA method 8015B	Sulfate/Chloride - EPA method 300.0	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
12/18/24	0855	H_2O	FY Treated Eff	7-40ml 1-plastic 1-Amber	HCl, ThiO, H_2SO_4		X	X	X	X	X	X		
12/18/24	0850	H_2O	FY Raw	7-40ml 1-plastic 1-Amber	HCl, ThiO, H_2SO_4		X	X	X	X	X	X		

Analysis Request

Date	Time	Relinquished by	Received by	Via	Date	Time
12/19/24	1130	Aaron Kirgani		CDX	12-19-24	15:32

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 repor

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc. Job Number: 885-17397-1

Login Number: 17397 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 1/24/2025 1:02:14 PM Revision 1

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-17466-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

my EOL

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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1/24/2025 1:02:14 PM
Revision 1

Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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Definitions/Glossary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17466-1
Project/Site: Former Y Station State Lead Site

Qualifiers

GC 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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
885-17466-1

REVISION

The report being provided is a revision of the original report sent on 12/31/2024. The report (revision 1) is being revised due to The dilution factor was updated for sample 885-17466-2 for BTEX/GRO..

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 12/19/2024 3:32 PM. 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 21.1°C.

Receipt Exceptions
The Field Sampler was not listed on the Chain of Custody.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample ID: FY OX Eff

Lab Sample ID: 885-17466-1
Matrix: Air
Date Collected: 12/18/24 10:05
Date Received: 12/19/24 15:32
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	13		5.0	1.3	ug/L			12/27/24 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*15 - 412*		*12/27/24 11:54*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.15		0.10	0.018	ug/L			12/27/24 11:54	1
Ethylbenzene	0.067	J	0.10	0.014	ug/L			12/27/24 11:54	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			12/27/24 11:54	1
Toluene	0.93		0.10	0.021	ug/L			12/27/24 11:54	1
Xylenes, Total	0.13	J	0.20	0.031	ug/L			12/27/24 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*12/27/24 11:54*	*1*

Client Sample ID: FY Comb Inf

Lab Sample ID: 885-17466-2

Date Collected: 12/18/24 09:50

Matrix: Air

Date Received: 12/19/24 15:32

Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	2700		250	66	ug/L			12/30/24 12:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 412*		*12/30/24 12:46*	*50*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	15		5.0	0.92	ug/L			12/30/24 12:46	50
Ethylbenzene	ND		5.0	0.70	ug/L			12/30/24 12:46	50
Methyl-tert-butyl Ether (MTBE)	ND		13	2.2	ug/L			12/30/24 12:46	50
Toluene	8.6		5.0	1.0	ug/L			12/30/24 12:46	50
Xylenes, Total	ND		10	1.6	ug/L			12/30/24 12:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*12/30/24 12:46*	*50*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-18497/6
Matrix: Air
Analysis Batch: 18497

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 [C6 - C10]	ND		5.0	1.3	ug/L			12/27/24 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 412*		*12/27/24 11:31*	*1*

Lab Sample ID: LCS 885-18497/4
Matrix: Air
Analysis Batch: 18497

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 [C6 - C10]			50.0	41.6		ug/L		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*188*		*15 - 412*

Lab Sample ID: MB 885-18543/6
Matrix: Air
Analysis Batch: 18543

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 [C6 - C10]	ND		5.0	1.3	ug/L			12/30/24 11:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*15 - 412*		*12/30/24 11:18*	*1*

Lab Sample ID: LCS 885-18543/4
Matrix: Air
Analysis Batch: 18543

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 [C6 - C10]			50.0	44.2		ug/L		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*196*		*15 - 412*

Lab Sample ID: 885-17466-1 DU
Matrix: Air
Analysis Batch: 18543

Client Sample ID: FY OX Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	13			13.4		ug/L				3	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*15 - 412*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-18498/6
Matrix: Air
Analysis Batch: 18498

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10	0.018	ug/L			12/27/24 11:31	1
Ethylbenzene	ND		0.10	0.014	ug/L			12/27/24 11:31	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			12/27/24 11:31	1
Toluene	ND		0.10	0.021	ug/L			12/27/24 11:31	1
Xylenes, Total	ND		0.20	0.031	ug/L			12/27/24 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/27/24 11:31*	*1*

Lab Sample ID: LCS 885-18498/5
Matrix: Air
Analysis Batch: 18498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.00	1.87		ug/L		94	70 - 130
Ethylbenzene	2.00	1.83		ug/L		91	70 - 130
m&p-Xylene	4.00	3.67		ug/L		92	70 - 130
Methyl-tert-butyl Ether (MTBE)	2.00	1.91		ug/L		95	70 - 130
o-Xylene	2.00	1.83		ug/L		91	70 - 130
Toluene	2.00	1.84		ug/L		92	70 - 130
Xylenes, Total	6.00	5.50		ug/L		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 885-18544/6
Matrix: Air
Analysis Batch: 18544

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10	0.018	ug/L			12/30/24 11:18	1
Ethylbenzene	ND		0.10	0.014	ug/L			12/30/24 11:18	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			12/30/24 11:18	1
Toluene	ND		0.10	0.021	ug/L			12/30/24 11:18	1
Xylenes, Total	ND		0.20	0.031	ug/L			12/30/24 11:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*12/30/24 11:18*	*1*

Lab Sample ID: LCS 885-18544/5
Matrix: Air
Analysis Batch: 18544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.00	1.91		ug/L		95	70 - 130
Ethylbenzene	2.00	1.92		ug/L		96	70 - 130
m&p-Xylene	4.00	3.83		ug/L		96	70 - 130
Methyl-tert-butyl Ether (MTBE)	2.00	2.11		ug/L		105	70 - 130

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-18544/5
Matrix: Air
Analysis Batch: 18544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			2.00	1.97		ug/L		98	70 - 130		
Toluene			2.00	1.93		ug/L		96	70 - 130		
Xylenes, Total			6.00	5.79		ug/L		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 885-17466-1 DU
Matrix: Air
Analysis Batch: 18544

Client Sample ID: FY OX Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Benzene	0.15			0.162		ug/L				8	20
Ethylbenzene	0.067	J		0.0717	J	ug/L				7	20
Methyl-tert-butyl Ether (MTBE)	ND			ND		ug/L				NC	20
Toluene	0.93			0.998		ug/L				7	20
Xylenes, Total	0.13	J		0.137	J	ug/L				5	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-17466-1

GC VOA

Analysis Batch: 18497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17466-1	FY OX Eff	Total/NA	Air	8015M/D	
MB 885-18497/6	Method Blank	Total/NA	Air	8015M/D	
LCS 885-18497/4	Lab Control Sample	Total/NA	Air	8015M/D	

Analysis Batch: 18498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17466-1	FY OX Eff	Total/NA	Air	8021B	
MB 885-18498/6	Method Blank	Total/NA	Air	8021B	
LCS 885-18498/5	Lab Control Sample	Total/NA	Air	8021B	

Analysis Batch: 18543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17466-2	FY Comb Inf	Total/NA	Air	8015M/D	
MB 885-18543/6	Method Blank	Total/NA	Air	8015M/D	
LCS 885-18543/4	Lab Control Sample	Total/NA	Air	8015M/D	
885-17466-1 DU	FY OX Eff	Total/NA	Air	8015M/D	

Analysis Batch: 18544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17466-2	FY Comb Inf	Total/NA	Air	8021B	
MB 885-18544/6	Method Blank	Total/NA	Air	8021B	
LCS 885-18544/5	Lab Control Sample	Total/NA	Air	8021B	
885-17466-1 DU	FY OX Eff	Total/NA	Air	8021B	

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-17466-1

Client Sample ID: FY OX Eff

Lab Sample ID: 885-17466-1

Date Collected: 12/18/24 10:05

Matrix: Air

Date Received: 12/19/24 15:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	18497	AT	EET ALB	12/27/24 11:54
Total/NA	Analysis	8021B		1	18498	AT	EET ALB	12/27/24 11:54

Client Sample ID: FY Comb Inf

Lab Sample ID: 885-17466-2

Date Collected: 12/18/24 09:50

Matrix: Air

Date Received: 12/19/24 15:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	18543	AT	EET ALB	12/30/24 12:46
Total/NA	Analysis	8021B		50	18544	AT	EET ALB	12/30/24 12:46

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17466-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-25-25

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
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

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: DV 12-19-24

On Ice: ☒ Yes ☑ No

# of Coolers: 1 NOJO

Cooler Temp (including CF): 21.1 +0 = 21.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

885-17466 COC

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/DRO - EPA method 8015B	Sulfate/Chloride - EPA method 300.0	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
12/18/24	1005	Air	FY OX Eff	1-Tedlar	None								X	X
12/18/24	0950	Air	FY Comb Inf	1-Tedlar	None								X	X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
12/19/24	15:32	Aaron Kilgannon		CDX	12-19-24	15:32
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 repo

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc. Job Number: 885-17466-1

Login Number: 17466 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Dominguez, Desiree

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
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?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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1 2 3 4 5 6 7 8 9 10 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 1/9/2025 4:04:26 PM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-17852-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

my EOL

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
1/9/2025 4:04:26 PM

Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17852-1
Project/Site: Former Y Station State Lead Site

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 885-17852-1 Eurofins Albuquerque

Job Narrative
885-17852-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 1/3/2025 2:46 PM. 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 22.7°C.

Receipt Exceptions
The Field Sampler was not listed on the Chain of Custody.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-17852-1

Client Sample ID: FY OX Eff

Lab Sample ID: 885-17852-1

Date Collected: 01/02/25 11:05
Matrix: Air
Date Received: 01/03/25 14:46
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	28		5.0	1.3	ug/L			01/08/25 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*15 - 412*		*01/08/25 14:40*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.39		0.10	0.018	ug/L			01/08/25 14:40	1
Ethylbenzene	0.60		0.10	0.014	ug/L			01/08/25 14:40	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			01/08/25 14:40	1
Toluene	1.7		0.10	0.021	ug/L			01/08/25 14:40	1
Xylenes, Total	3.7		0.20	0.031	ug/L			01/08/25 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*01/08/25 14:40*	*1*

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-17852-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Comb Inf

Lab Sample ID: 885-17852-2

Date Collected: 01/02/25 10:55

Matrix: Air

Date Received: 01/03/25 14:46

Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	3500		250	66	ug/L			01/09/25 11:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*15 - 412*		*01/09/25 11:52*	*50*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	18		5.0	0.92	ug/L			01/09/25 11:52	50
Ethylbenzene	27		5.0	0.70	ug/L			01/09/25 11:52	50
Methyl-tert-butyl Ether (MTBE)	ND		13	2.2	ug/L			01/09/25 11:52	50
Toluene	170		5.0	1.0	ug/L			01/09/25 11:52	50
Xylenes, Total	120		10	1.6	ug/L			01/09/25 11:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*01/09/25 11:52*	*50*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-17852-1

Client Sample ID: DTA Eff
Date Collected: 01/03/25 09:00
Date Received: 01/03/25 14:46
Sample Container: Tedlar Bag 1L

Lab Sample ID: 885-17852-3
Matrix: Air

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	19		5.0	1.3	ug/L			01/08/25 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*15 - 412*		*01/08/25 15:45*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.2		0.10	0.018	ug/L			01/08/25 15:45	1
Ethylbenzene	0.41		0.10	0.014	ug/L			01/08/25 15:45	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			01/08/25 15:45	1
Toluene	0.89		0.10	0.021	ug/L			01/08/25 15:45	1
Xylenes, Total	2.4		0.20	0.031	ug/L			01/08/25 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*01/08/25 15:45*	*1*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-17852-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-19041/6
Matrix: Air
Analysis Batch: 19041

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 [C6 - C10]	ND		5.0	1.3	ug/L			01/09/25 10:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*15 - 412*		*01/09/25 10:47*	*1*

Lab Sample ID: LCS 885-19041/4
Matrix: Air
Analysis Batch: 19041

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 [C6 - C10]			50.0	45.9		ug/L		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*200*		*15 - 412*

Lab Sample ID: MB 885-19045/14
Matrix: Air
Analysis Batch: 19045

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 [C6 - C10]	ND		5.0	1.3	ug/L			01/08/25 14:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*15 - 412*		*01/08/25 14:18*	*1*

Lab Sample ID: LCS 885-19045/3
Matrix: Air
Analysis Batch: 19045

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 [C6 - C10]			50.0	43.5		ug/L		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*198*		*15 - 412*

Lab Sample ID: 885-17852-1 DU
Matrix: Air
Analysis Batch: 19045

Client Sample ID: FY OX Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	28			26.8		ug/L				3	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*15 - 412*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-19042/6
Matrix: Air
Analysis Batch: 19042

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10	0.018	ug/L			01/09/25 10:47	1
Ethylbenzene	ND		0.10	0.014	ug/L			01/09/25 10:47	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			01/09/25 10:47	1
Toluene	ND		0.10	0.021	ug/L			01/09/25 10:47	1
Xylenes, Total	ND		0.20	0.031	ug/L			01/09/25 10:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*01/09/25 10:47*	*1*

Lab Sample ID: LCS 885-19042/5
Matrix: Air
Analysis Batch: 19042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.00	1.79		ug/L		90	70 - 130
Ethylbenzene	2.00	1.84		ug/L		92	70 - 130
m&p-Xylene	4.00	3.69		ug/L		92	70 - 130
Methyl-tert-butyl Ether (MTBE)	2.00	1.88		ug/L		94	70 - 130
o-Xylene	2.00	1.85		ug/L		93	70 - 130
Toluene	2.00	1.83		ug/L		91	70 - 130
Xylenes, Total	6.00	5.54		ug/L		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 885-19044/14
Matrix: Air
Analysis Batch: 19044

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10	0.018	ug/L			01/08/25 14:18	1
Ethylbenzene	ND		0.10	0.014	ug/L			01/08/25 14:18	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			01/08/25 14:18	1
Toluene	ND		0.10	0.021	ug/L			01/08/25 14:18	1
Xylenes, Total	ND		0.20	0.031	ug/L			01/08/25 14:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*01/08/25 14:18*	*1*

Lab Sample ID: LCS 885-19044/13
Matrix: Air
Analysis Batch: 19044

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.00	1.79		ug/L		89	70 - 130
Ethylbenzene	2.00	1.85		ug/L		93	70 - 130
m&p-Xylene	4.00	3.66		ug/L		92	70 - 130
Methyl-tert-butyl Ether (MTBE)	2.00	1.91		ug/L		96	70 - 130

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-19044/13
Matrix: Air
Analysis Batch: 19044

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			2.00	1.87		ug/L		94	70 - 130		
Toluene			2.00	1.80		ug/L		90	70 - 130		
Xylenes, Total			6.00	5.54		ug/L		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 885-17852-1 DU
Matrix: Air
Analysis Batch: 19044

Client Sample ID: FY OX Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Benzene	0.39			0.379		ug/L				2	20
Ethylbenzene	0.60			0.580		ug/L				4	20
Methyl-tert-butyl Ether (MTBE)	ND			ND		ug/L				NC	20
Toluene	1.7			1.65		ug/L				2	20
Xylenes, Total	3.7			3.66		ug/L				2	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-17852-1

GC VOA

Analysis Batch: 19041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17852-2	FY Comb Inf	Total/NA	Air	8015M/D	
MB 885-19041/6	Method Blank	Total/NA	Air	8015M/D	
LCS 885-19041/4	Lab Control Sample	Total/NA	Air	8015M/D	

Analysis Batch: 19042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17852-2	FY Comb Inf	Total/NA	Air	8021B	
MB 885-19042/6	Method Blank	Total/NA	Air	8021B	
LCS 885-19042/5	Lab Control Sample	Total/NA	Air	8021B	

Analysis Batch: 19044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17852-1	FY OX Eff	Total/NA	Air	8021B	
885-17852-3	DTA Eff	Total/NA	Air	8021B	
MB 885-19044/14	Method Blank	Total/NA	Air	8021B	
LCS 885-19044/13	Lab Control Sample	Total/NA	Air	8021B	
885-17852-1 DU	FY OX Eff	Total/NA	Air	8021B	

Analysis Batch: 19045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17852-1	FY OX Eff	Total/NA	Air	8015M/D	
885-17852-3	DTA Eff	Total/NA	Air	8015M/D	
MB 885-19045/14	Method Blank	Total/NA	Air	8015M/D	
LCS 885-19045/3	Lab Control Sample	Total/NA	Air	8015M/D	
885-17852-1 DU	FY OX Eff	Total/NA	Air	8015M/D	

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-17852-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY OX Eff
Lab Sample ID: 885-17852-1
Date Collected: 01/02/25 11:05
Matrix: Air
Date Received: 01/03/25 14:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	19045	AT	EET ALB	01/08/25 14:40
Total/NA	Analysis	8021B		1	19044	AT	EET ALB	01/08/25 14:40

Client Sample ID: FY Comb Inf
Lab Sample ID: 885-17852-2
Date Collected: 01/02/25 10:55
Matrix: Air
Date Received: 01/03/25 14:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	19041	AT	EET ALB	01/09/25 11:52
Total/NA	Analysis	8021B		50	19042	AT	EET ALB	01/09/25 11:52

Client Sample ID: DTA Eff
Lab Sample ID: 885-17852-3
Date Collected: 01/03/25 09:00
Matrix: Air
Date Received: 01/03/25 14:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	19045	AT	EET ALB	01/08/25 15:45
Total/NA	Analysis	8021B		1	19044	AT	EET ALB	01/08/25 15:45

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17852-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

Oregon	NELAP	NM100001	02-25-25

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
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

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:

On Ice: ☐ Yes ☑ No

# of Coolers: Ø

Cooler Temp(including CF): 22.3 +0.4 = 22.7 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

885-17852 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO/DRO - EPA method 8015B	Sulfate/Chloride - EPA method 300.0	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
1/2/25	1105	Air	FY OX Eff	1-Tedlar	None								X	X
1/2/25	1055	Air	FY Comb Inf	1-Tedlar	None								X	X
1/3/25	0900	Air	DTA EFF	1-Tedlar	None								X	X

Date	Time	Relinquished by	Received by	Via	Date	Time
1-3-25	14:45	Territo DP		CDO	1-3-25	1446
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 repo

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc. Job Number: 885-17852-1

Login Number: 17852 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Dominguez, Desiree

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
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?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 1/10/2025 11:58:40 AM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-17858-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

my EOL

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
Cheyenne Cason, Project Manager
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(505)345-3975

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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.

GC 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.

HPLC/IC

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
885-17858-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 1/3/2025 2:46 PM. 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 1.0°C.

Receipt Exceptions
The Field Sampler was not listed on the Chain of Custody.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 885-19009 recovered above the upper control limit for Bromomethane, Chloroethane, Chloromethane and Methylene Chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8011: The continuing calibration verification (CCV) associated with batch 885-19017 recovered outside acceptance criteria, low biased, DBCP. Confirmation channel only; reporting channel acceptable. Results reported as is. The following sample is associated (CCV 885-19013/2-A).

Method 8011: The following sample was diluted due to the nature of the sample matrix and abundance of target analytes: FY Raw (885-17858-2). As such, surrogate recoveries are below the calibration range or are not reported, and 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.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-17858-1

Client Sample ID: FY Treated Eff
Date Collected: 01/02/25 09:50
Date Received: 01/03/25 14:46

Lab Sample ID: 885-17858-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			01/06/25 18:30	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			01/06/25 18:30	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			01/06/25 18:30	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			01/06/25 18:30	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			01/06/25 18:30	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			01/06/25 18:30	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			01/06/25 18:30	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			01/06/25 18:30	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			01/06/25 18:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/06/25 18:30	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			01/06/25 18:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			01/06/25 18:30	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			01/06/25 18:30	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			01/06/25 18:30	1
1,2-Dichloroethane (EDC)	**0.70**	**J**	1.0	0.30	ug/L			01/06/25 18:30	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			01/06/25 18:30	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			01/06/25 18:30	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			01/06/25 18:30	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			01/06/25 18:30	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			01/06/25 18:30	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			01/06/25 18:30	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			01/06/25 18:30	1
2-Butanone	**8.7**	**J**	10	2.0	ug/L			01/06/25 18:30	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			01/06/25 18:30	1
2-Hexanone	ND		10	1.8	ug/L			01/06/25 18:30	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			01/06/25 18:30	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			01/06/25 18:30	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			01/06/25 18:30	1
4-Methyl-2-pentanone	**2.9**	**J**	10	1.5	ug/L			01/06/25 18:30	1
Acetone	**22**		10	2.5	ug/L			01/06/25 18:30	1
Benzene	ND		1.0	0.23	ug/L			01/06/25 18:30	1
Bromobenzene	ND		1.0	0.28	ug/L			01/06/25 18:30	1
Bromodichloromethane	ND		1.0	0.20	ug/L			01/06/25 18:30	1
Dibromochloromethane	ND		1.0	0.28	ug/L			01/06/25 18:30	1
Bromoform	ND		1.0	0.31	ug/L			01/06/25 18:30	1
Bromomethane	ND		3.0	1.0	ug/L			01/06/25 18:30	1
Carbon disulfide	ND		10	1.0	ug/L			01/06/25 18:30	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			01/06/25 18:30	1
Chlorobenzene	ND		1.0	0.46	ug/L			01/06/25 18:30	1
Chloroethane	ND		2.0	0.38	ug/L			01/06/25 18:30	1
Chloroform	ND		1.0	0.25	ug/L			01/06/25 18:30	1
Chloromethane	ND		3.0	0.41	ug/L			01/06/25 18:30	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			01/06/25 18:30	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			01/06/25 18:30	1
Dibromomethane	ND		1.0	0.31	ug/L			01/06/25 18:30	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			01/06/25 18:30	1
Ethylbenzene	ND		1.0	0.21	ug/L			01/06/25 18:30	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			01/06/25 18:30	1
Isopropylbenzene	ND		1.0	0.18	ug/L			01/06/25 18:30	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-17858-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Treated Eff
Lab Sample ID: 885-17858-1
Date Collected: 01/02/25 09:50
Matrix: Water
Date Received: 01/03/25 14:46

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			01/06/25 18:30	1
Methylene Chloride	ND		2.5	1.2	ug/L			01/06/25 18:30	1
n-Butylbenzene	ND		3.0	0.13	ug/L			01/06/25 18:30	1
N-Propylbenzene	ND		1.0	0.11	ug/L			01/06/25 18:30	1
Naphthalene	ND		2.0	0.24	ug/L			01/06/25 18:30	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			01/06/25 18:30	1
Styrene	ND		1.0	0.17	ug/L			01/06/25 18:30	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			01/06/25 18:30	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			01/06/25 18:30	1
Toluene	ND		1.0	0.25	ug/L			01/06/25 18:30	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			01/06/25 18:30	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			01/06/25 18:30	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			01/06/25 18:30	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			01/06/25 18:30	1
Vinyl chloride	ND		1.0	0.32	ug/L			01/06/25 18:30	1
Xylenes, Total	ND		1.5	0.37	ug/L			01/06/25 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*01/06/25 18:30*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*01/06/25 18:30*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*01/06/25 18:30*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*01/06/25 18:30*	*1*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**0.021**	**J**	0.050	0.013	mg/L			01/07/25 09:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 270*		*01/07/25 09:29*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.014**		0.0094	0.0075	ug/L		01/08/25 13:33	01/08/25 20:56	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.58	mg/L		01/08/25 09:10	01/08/25 15:12	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.3	mg/L		01/08/25 09:10	01/08/25 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*73*		*46 - 159*	*01/08/25 09:10*	*01/08/25 15:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65**		10	5.0	mg/L			01/06/25 16:14	20
Sulfate	**37**		0.50	0.25	mg/L			01/06/25 16:03	1
Nitrate Nitrite as N	**1.1**		1.0	0.11	mg/L			01/06/25 20:28	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**400**		50	25	mg/L			01/06/25 18:04	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-17858-1

Client Sample ID: FY Raw
Date Collected: 01/02/25 09:40
Date Received: 01/03/25 14:46

Lab Sample ID: 885-17858-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.3	ug/L			01/06/25 18:58	5
1,1,1-Trichloroethane	ND		5.0	0.76	ug/L			01/06/25 18:58	5
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			01/06/25 18:58	5
1,1,2-Trichloroethane	ND		5.0	0.99	ug/L			01/06/25 18:58	5
1,1-Dichloroethane	ND		5.0	1.5	ug/L			01/06/25 18:58	5
1,1-Dichloroethene	ND		5.0	1.0	ug/L			01/06/25 18:58	5
1,1-Dichloropropene	ND		5.0	0.90	ug/L			01/06/25 18:58	5
1,2,3-Trichlorobenzene	ND		5.0	1.2	ug/L			01/06/25 18:58	5
1,2,3-Trichloropropane	ND		10	0.90	ug/L			01/06/25 18:58	5
1,2,4-Trichlorobenzene	ND		5.0	2.0	ug/L			01/06/25 18:58	5
1,2,4-Trimethylbenzene	**43**		5.0	0.61	ug/L			01/06/25 18:58	5
1,2-Dibromo-3-Chloropropane	ND		10	3.7	ug/L			01/06/25 18:58	5
1,2-Dibromoethane (EDB)	ND		5.0	1.5	ug/L			01/06/25 18:58	5
1,2-Dichlorobenzene	ND		5.0	0.77	ug/L			01/06/25 18:58	5
1,2-Dichloroethane (EDC)	**83**		5.0	1.5	ug/L			01/06/25 18:58	5
1,2-Dichloropropane	ND		5.0	1.0	ug/L			01/06/25 18:58	5
1,3,5-Trimethylbenzene	**12**		5.0	0.91	ug/L			01/06/25 18:58	5
1,3-Dichlorobenzene	ND		5.0	0.81	ug/L			01/06/25 18:58	5
1,3-Dichloropropane	ND		5.0	0.90	ug/L			01/06/25 18:58	5
1,4-Dichlorobenzene	ND		5.0	0.55	ug/L			01/06/25 18:58	5
1-Methylnaphthalene	ND		20	10	ug/L			01/06/25 18:58	5
2,2-Dichloropropane	ND		10	1.3	ug/L			01/06/25 18:58	5
2-Butanone	**100**		50	10	ug/L			01/06/25 18:58	5
2-Chlorotoluene	ND		5.0	0.70	ug/L			01/06/25 18:58	5
2-Hexanone	**26**	**J**	50	9.0	ug/L			01/06/25 18:58	5
2-Methylnaphthalene	ND		20	10	ug/L			01/06/25 18:58	5
4-Chlorotoluene	ND		5.0	0.67	ug/L			01/06/25 18:58	5
4-Isopropyltoluene	ND		5.0	1.0	ug/L			01/06/25 18:58	5
4-Methyl-2-pentanone	**29**	**J**	50	7.5	ug/L			01/06/25 18:58	5
Acetone	ND		50	13	ug/L			01/06/25 18:58	5
Benzene	**1100**		50	11	ug/L			01/08/25 15:47	50
Bromobenzene	ND		5.0	1.4	ug/L			01/06/25 18:58	5
Bromodichloromethane	ND		5.0	1.0	ug/L			01/06/25 18:58	5
Dibromochloromethane	ND		5.0	1.4	ug/L			01/06/25 18:58	5
Bromoform	ND		5.0	1.6	ug/L			01/06/25 18:58	5
Bromomethane	ND		15	5.0	ug/L			01/06/25 18:58	5
Carbon disulfide	ND		50	5.0	ug/L			01/06/25 18:58	5
Carbon tetrachloride	ND		5.0	0.90	ug/L			01/06/25 18:58	5
Chlorobenzene	ND		5.0	2.3	ug/L			01/06/25 18:58	5
Chloroethane	ND		10	1.9	ug/L			01/06/25 18:58	5
Chloroform	ND		5.0	1.3	ug/L			01/06/25 18:58	5
Chloromethane	ND		15	2.1	ug/L			01/06/25 18:58	5
cis-1,2-Dichloroethene	ND		5.0	1.9	ug/L			01/06/25 18:58	5
cis-1,3-Dichloropropene	ND		5.0	0.65	ug/L			01/06/25 18:58	5
Dibromomethane	ND		5.0	1.5	ug/L			01/06/25 18:58	5
Dichlorodifluoromethane	ND		5.0	3.7	ug/L			01/06/25 18:58	5
Ethylbenzene	**48**		5.0	1.1	ug/L			01/06/25 18:58	5
Hexachlorobutadiene	ND		5.0	2.1	ug/L			01/06/25 18:58	5
Isopropylbenzene	**4.9**	**J**	5.0	0.91	ug/L			01/06/25 18:58	5

Client Sample ID: FY Raw
Date Collected: 01/02/25 09:40
Date Received: 01/03/25 14:46

Lab Sample ID: 885-17858-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		5.0	2.0	ug/L			01/06/25 18:58	5
Methylene Chloride	ND		13	6.2	ug/L			01/06/25 18:58	5
n-Butylbenzene	ND		15	0.63	ug/L			01/06/25 18:58	5
N-Propylbenzene	**7.7**		5.0	0.55	ug/L			01/06/25 18:58	5
Naphthalene	**17**		10	1.2	ug/L			01/06/25 18:58	5
sec-Butylbenzene	ND		5.0	0.72	ug/L			01/06/25 18:58	5
Styrene	ND		5.0	0.85	ug/L			01/06/25 18:58	5
tert-Butylbenzene	ND		5.0	1.2	ug/L			01/06/25 18:58	5
Tetrachloroethene (PCE)	ND		5.0	0.89	ug/L			01/06/25 18:58	5
Toluene	**68**		5.0	1.3	ug/L			01/06/25 18:58	5
trans-1,2-Dichloroethene	ND		5.0	0.97	ug/L			01/06/25 18:58	5
trans-1,3-Dichloropropene	ND		5.0	1.7	ug/L			01/06/25 18:58	5
Trichloroethene (TCE)	ND		5.0	1.0	ug/L			01/06/25 18:58	5
Trichlorofluoromethane	ND		5.0	0.79	ug/L			01/06/25 18:58	5
Vinyl chloride	ND		5.0	1.6	ug/L			01/06/25 18:58	5
Xylenes, Total	**120**		7.5	1.9	ug/L			01/06/25 18:58	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*01/06/25 18:58*	*5*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*01/08/25 15:47*	*50*
Toluene-d8 (Surr)	*99*		*70 - 130*		*01/06/25 18:58*	*5*
Toluene-d8 (Surr)	*96*		*70 - 130*		*01/08/25 15:47*	*50*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*01/06/25 18:58*	*5*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*01/08/25 15:47*	*50*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*01/06/25 18:58*	*5*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*01/08/25 15:47*	*50*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**3.8**		0.25	0.066	mg/L			01/07/25 09:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*15 - 270*		*01/07/25 09:52*	*5*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**2.0**		0.95	0.76	ug/L		01/08/25 13:33	01/09/25 18:04	100

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.58	mg/L		01/08/25 09:10	01/08/25 15:23	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.3	mg/L		01/08/25 09:10	01/08/25 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*69*		*46 - 159*	*01/08/25 09:10*	*01/08/25 15:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62**		10	5.0	mg/L			01/06/25 16:58	20
Sulfate	**33**		0.50	0.25	mg/L			01/06/25 16:47	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17858-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Raw **Lab Sample ID: 885-17858-2**
Date Collected: 01/02/25 09:40 **Matrix: Water**
Date Received: 01/03/25 14:46

Method: EPA 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.94	J	1.0	0.11	mg/L			01/06/25 21:13	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	390		100	50	mg/L			01/06/25 18:04	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-17858-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: Trip Blank
Lab Sample ID: 885-17858-3
Date Collected: 01/02/25 00:00
Matrix: Water
Date Received: 01/03/25 14:46

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			01/06/25 19:52	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			01/06/25 19:52	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			01/06/25 19:52	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			01/06/25 19:52	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			01/06/25 19:52	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			01/06/25 19:52	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			01/06/25 19:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			01/06/25 19:52	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			01/06/25 19:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/06/25 19:52	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			01/06/25 19:52	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			01/06/25 19:52	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			01/06/25 19:52	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			01/06/25 19:52	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			01/06/25 19:52	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			01/06/25 19:52	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			01/06/25 19:52	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			01/06/25 19:52	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			01/06/25 19:52	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			01/06/25 19:52	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			01/06/25 19:52	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			01/06/25 19:52	1
2-Butanone	ND		10	2.0	ug/L			01/06/25 19:52	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			01/06/25 19:52	1
2-Hexanone	ND		10	1.8	ug/L			01/06/25 19:52	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			01/06/25 19:52	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			01/06/25 19:52	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			01/06/25 19:52	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			01/06/25 19:52	1
Acetone	ND		10	2.5	ug/L			01/06/25 19:52	1
Benzene	ND		1.0	0.23	ug/L			01/06/25 19:52	1
Bromobenzene	ND		1.0	0.28	ug/L			01/06/25 19:52	1
Bromodichloromethane	ND		1.0	0.20	ug/L			01/06/25 19:52	1
Dibromochloromethane	ND		1.0	0.28	ug/L			01/06/25 19:52	1
Bromoform	ND		1.0	0.31	ug/L			01/06/25 19:52	1
Bromomethane	ND		3.0	1.0	ug/L			01/06/25 19:52	1
Carbon disulfide	ND		10	1.0	ug/L			01/06/25 19:52	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			01/06/25 19:52	1
Chlorobenzene	ND		1.0	0.46	ug/L			01/06/25 19:52	1
Chloroethane	ND		2.0	0.38	ug/L			01/06/25 19:52	1
Chloroform	ND		1.0	0.25	ug/L			01/06/25 19:52	1
Chloromethane	ND		3.0	0.41	ug/L			01/06/25 19:52	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			01/06/25 19:52	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			01/06/25 19:52	1
Dibromomethane	ND		1.0	0.31	ug/L			01/06/25 19:52	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			01/06/25 19:52	1
Ethylbenzene	ND		1.0	0.21	ug/L			01/06/25 19:52	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			01/06/25 19:52	1
Isopropylbenzene	ND		1.0	0.18	ug/L			01/06/25 19:52	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17858-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: Trip Blank **Lab Sample ID: 885-17858-3**
Date Collected: 01/02/25 00:00 **Matrix: Water**
Date Received: 01/03/25 14:46

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			01/06/25 19:52	1
Methylene Chloride	ND		2.5	1.2	ug/L			01/06/25 19:52	1
n-Butylbenzene	ND		3.0	0.13	ug/L			01/06/25 19:52	1
N-Propylbenzene	ND		1.0	0.11	ug/L			01/06/25 19:52	1
Naphthalene	ND		2.0	0.24	ug/L			01/06/25 19:52	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			01/06/25 19:52	1
Styrene	ND		1.0	0.17	ug/L			01/06/25 19:52	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			01/06/25 19:52	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			01/06/25 19:52	1
Toluene	ND		1.0	0.25	ug/L			01/06/25 19:52	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			01/06/25 19:52	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			01/06/25 19:52	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			01/06/25 19:52	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			01/06/25 19:52	1
Vinyl chloride	ND		1.0	0.32	ug/L			01/06/25 19:52	1
Xylenes, Total	ND		1.5	0.37	ug/L			01/06/25 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*01/06/25 19:52*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*01/06/25 19:52*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*01/06/25 19:52*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*01/06/25 19:52*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0094	0.0075	ug/L		01/08/25 13:33	01/08/25 21:24	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-18863/5
Matrix: Water
Analysis Batch: 18863

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			01/06/25 15:19	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			01/06/25 15:19	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			01/06/25 15:19	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			01/06/25 15:19	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			01/06/25 15:19	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			01/06/25 15:19	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			01/06/25 15:19	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			01/06/25 15:19	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			01/06/25 15:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/06/25 15:19	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			01/06/25 15:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			01/06/25 15:19	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			01/06/25 15:19	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			01/06/25 15:19	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			01/06/25 15:19	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			01/06/25 15:19	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			01/06/25 15:19	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			01/06/25 15:19	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			01/06/25 15:19	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			01/06/25 15:19	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			01/06/25 15:19	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			01/06/25 15:19	1
2-Butanone	ND		10	2.0	ug/L			01/06/25 15:19	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			01/06/25 15:19	1
2-Hexanone	ND		10	1.8	ug/L			01/06/25 15:19	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			01/06/25 15:19	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			01/06/25 15:19	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			01/06/25 15:19	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			01/06/25 15:19	1
Acetone	ND		10	2.5	ug/L			01/06/25 15:19	1
Benzene	ND		1.0	0.23	ug/L			01/06/25 15:19	1
Bromobenzene	ND		1.0	0.28	ug/L			01/06/25 15:19	1
Bromodichloromethane	ND		1.0	0.20	ug/L			01/06/25 15:19	1
Dibromochloromethane	ND		1.0	0.28	ug/L			01/06/25 15:19	1
Bromoform	ND		1.0	0.31	ug/L			01/06/25 15:19	1
Bromomethane	ND		3.0	1.0	ug/L			01/06/25 15:19	1
Carbon disulfide	ND		10	1.0	ug/L			01/06/25 15:19	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			01/06/25 15:19	1
Chlorobenzene	ND		1.0	0.46	ug/L			01/06/25 15:19	1
Chloroethane	ND		2.0	0.38	ug/L			01/06/25 15:19	1
Chloroform	ND		1.0	0.25	ug/L			01/06/25 15:19	1
Chloromethane	ND		3.0	0.41	ug/L			01/06/25 15:19	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			01/06/25 15:19	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			01/06/25 15:19	1
Dibromomethane	ND		1.0	0.31	ug/L			01/06/25 15:19	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			01/06/25 15:19	1
Ethylbenzene	ND		1.0	0.21	ug/L			01/06/25 15:19	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			01/06/25 15:19	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-18863/5
Matrix: Water
Analysis Batch: 18863

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.18	ug/L			01/06/25 15:19	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			01/06/25 15:19	1
Methylene Chloride	ND		2.5	1.2	ug/L			01/06/25 15:19	1
n-Butylbenzene	ND		3.0	0.13	ug/L			01/06/25 15:19	1
N-Propylbenzene	ND		1.0	0.11	ug/L			01/06/25 15:19	1
Naphthalene	ND		2.0	0.24	ug/L			01/06/25 15:19	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			01/06/25 15:19	1
Styrene	ND		1.0	0.17	ug/L			01/06/25 15:19	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			01/06/25 15:19	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			01/06/25 15:19	1
Toluene	ND		1.0	0.25	ug/L			01/06/25 15:19	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			01/06/25 15:19	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			01/06/25 15:19	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			01/06/25 15:19	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			01/06/25 15:19	1
Vinyl chloride	ND		1.0	0.32	ug/L			01/06/25 15:19	1
Xylenes, Total	ND		1.5	0.37	ug/L			01/06/25 15:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*01/06/25 15:19*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*01/06/25 15:19*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*01/06/25 15:19*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*01/06/25 15:19*	*1*

Lab Sample ID: LCS 885-18863/4
Matrix: Water
Analysis Batch: 18863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	21.7		ug/L		108	70 - 130		
Benzene			20.1	20.6		ug/L		103	70 - 130		
Chlorobenzene			20.1	20.3		ug/L		101	70 - 130		
Toluene			20.2	20.8		ug/L		103	70 - 130		
Trichloroethene (TCE)			20.2	20.7		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 885-19009/4
Matrix: Water
Analysis Batch: 19009

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			01/08/25 11:16	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			01/08/25 11:16	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-19009/4
Matrix: Water
Analysis Batch: 19009

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			01/08/25 11:16	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			01/08/25 11:16	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			01/08/25 11:16	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			01/08/25 11:16	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			01/08/25 11:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			01/08/25 11:16	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			01/08/25 11:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/08/25 11:16	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			01/08/25 11:16	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			01/08/25 11:16	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			01/08/25 11:16	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			01/08/25 11:16	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			01/08/25 11:16	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			01/08/25 11:16	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			01/08/25 11:16	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			01/08/25 11:16	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			01/08/25 11:16	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			01/08/25 11:16	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			01/08/25 11:16	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			01/08/25 11:16	1
2-Butanone	ND		10	2.0	ug/L			01/08/25 11:16	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			01/08/25 11:16	1
2-Hexanone	ND		10	1.8	ug/L			01/08/25 11:16	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			01/08/25 11:16	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			01/08/25 11:16	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			01/08/25 11:16	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			01/08/25 11:16	1
Acetone	ND		10	2.5	ug/L			01/08/25 11:16	1
Benzene	ND		1.0	0.23	ug/L			01/08/25 11:16	1
Bromobenzene	ND		1.0	0.28	ug/L			01/08/25 11:16	1
Bromodichloromethane	ND		1.0	0.20	ug/L			01/08/25 11:16	1
Dibromochloromethane	ND		1.0	0.28	ug/L			01/08/25 11:16	1
Bromoform	ND		1.0	0.31	ug/L			01/08/25 11:16	1
Bromomethane	ND		3.0	1.0	ug/L			01/08/25 11:16	1
Carbon disulfide	ND		10	1.0	ug/L			01/08/25 11:16	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			01/08/25 11:16	1
Chlorobenzene	ND		1.0	0.46	ug/L			01/08/25 11:16	1
Chloroethane	ND		2.0	0.38	ug/L			01/08/25 11:16	1
Chloroform	ND		1.0	0.25	ug/L			01/08/25 11:16	1
Chloromethane	ND		3.0	0.41	ug/L			01/08/25 11:16	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			01/08/25 11:16	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			01/08/25 11:16	1
Dibromomethane	ND		1.0	0.31	ug/L			01/08/25 11:16	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			01/08/25 11:16	1
Ethylbenzene	ND		1.0	0.21	ug/L			01/08/25 11:16	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			01/08/25 11:16	1
Isopropylbenzene	ND		1.0	0.18	ug/L			01/08/25 11:16	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			01/08/25 11:16	1
Methylene Chloride	ND		2.5	1.2	ug/L			01/08/25 11:16	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-19009/4 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 19009

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		3.0	0.13	ug/L			01/08/25 11:16	1
N-Propylbenzene	ND		1.0	0.11	ug/L			01/08/25 11:16	1
Naphthalene	ND		2.0	0.24	ug/L			01/08/25 11:16	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			01/08/25 11:16	1
Styrene	ND		1.0	0.17	ug/L			01/08/25 11:16	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			01/08/25 11:16	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			01/08/25 11:16	1
Toluene	ND		1.0	0.25	ug/L			01/08/25 11:16	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			01/08/25 11:16	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			01/08/25 11:16	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			01/08/25 11:16	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			01/08/25 11:16	1
Vinyl chloride	ND		1.0	0.32	ug/L			01/08/25 11:16	1
Xylenes, Total	ND		1.5	0.37	ug/L			01/08/25 11:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*01/08/25 11:16*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*01/08/25 11:16*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*01/08/25 11:16*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*01/08/25 11:16*	*1*

Lab Sample ID: LCS 885-19009/3 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 19009

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.1	21.2		ug/L		105	70 - 130
Benzene	20.1	21.8		ug/L		108	70 - 130
Chlorobenzene	20.1	22.8		ug/L		114	70 - 130
Toluene	20.2	21.7		ug/L		108	70 - 130
Trichloroethene (TCE)	20.2	21.1		ug/L		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-18886/32 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 18886

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050	0.013	mg/L			01/07/25 08:50	1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: MB 885-18886/32
Matrix: Water
Analysis Batch: 18886

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*101*		*15 - 270*		*01/07/25 08:50*	*1*

Lab Sample ID: LCS 885-18886/3
Matrix: Water
Analysis Batch: 18886

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 [C6 - C10]	0.500	0.477		mg/L		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*202*		*15 - 270*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-19013/3-A
Matrix: Water
Analysis Batch: 19017

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19013

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0080	ug/L		01/08/25 13:33	01/08/25 20:14	1

Lab Sample ID: LCS 885-19013/4-A
Matrix: Water
Analysis Batch: 19017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.100	0.107		ug/L		107	70 - 130

Lab Sample ID: LCSD 885-19013/5-A
Matrix: Water
Analysis Batch: 19017

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 19013

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.100	0.120		ug/L		120	70 - 130	13	20

Lab Sample ID: MRL 885-19013/1-A
Matrix: Water
Analysis Batch: 19017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19013

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0100	ND		ug/L		72	60 - 140

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-18978/1-A
Matrix: Water
Analysis Batch: 18977

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.58	mg/L		01/08/25 09:10	01/08/25 11:39	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.3	mg/L		01/08/25 09:10	01/08/25 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*82*		*46 - 159*	*01/08/25 09:10*	*01/08/25 11:39*	*1*

Lab Sample ID: LCS 885-18978/2-A
Matrix: Water
Analysis Batch: 18977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	2.50	2.48		mg/L		99	57 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*99*		*46 - 159*

Lab Sample ID: 885-17858-2 MS
Matrix: Water
Analysis Batch: 18977

Client Sample ID: FY Raw
Prep Type: Total/NA
Prep Batch: 18978

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		2.50	3.39		mg/L		136	33 - 161

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*95*		*46 - 159*

Lab Sample ID: 885-17858-2 MSD
Matrix: Water
Analysis Batch: 18977

Client Sample ID: FY Raw
Prep Type: Total/NA
Prep Batch: 18978

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		2.50	3.47		mg/L		139	33 - 161	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*98*		*46 - 159*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-18836/4
Matrix: Water
Analysis Batch: 18836

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			01/06/25 12:44	1
Sulfate	ND		0.50	0.25	mg/L			01/06/25 12:44	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-18836/5
Matrix: Water
Analysis Batch: 18836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.82		mg/L		96	90 - 110
Sulfate	10.0	9.59		mg/L		96	90 - 110

Lab Sample ID: MRL 885-18836/3
Matrix: Water
Analysis Batch: 18836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.525		mg/L		105	50 - 150
Sulfate	0.500	0.522		mg/L		104	50 - 150

Lab Sample ID: MB 885-18837/4
Matrix: Water
Analysis Batch: 18837

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	0.022	mg/L			01/06/25 12:44	1

Lab Sample ID: LCS 885-18837/5
Matrix: Water
Analysis Batch: 18837

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	2.50	2.53		mg/L		101	90 - 110
Nitrite as N	1.00	0.986		mg/L		99	90 - 110

Lab Sample ID: MRL 885-18837/3
Matrix: Water
Analysis Batch: 18837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.104		mg/L		104	50 - 150
Nitrite as N	0.100	0.101		mg/L		101	50 - 150

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-18885/1
Matrix: Water
Analysis Batch: 18885

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	25	mg/L			01/06/25 18:04	1

Lab Sample ID: LCS 885-18885/2
Matrix: Water
Analysis Batch: 18885

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	993		mg/L		99	80 - 120

GC/MS VOA

Analysis Batch: 18863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17858-1	FY Treated Eff	Total/NA	Water	8260B	
885-17858-2	FY Raw	Total/NA	Water	8260B	
885-17858-3	Trip Blank	Total/NA	Water	8260B	
MB 885-18863/5	Method Blank	Total/NA	Water	8260B	
LCS 885-18863/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 19009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17858-2	FY Raw	Total/NA	Water	8260B	
MB 885-19009/4	Method Blank	Total/NA	Water	8260B	
LCS 885-19009/3	Lab Control Sample	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 18886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17858-1	FY Treated Eff	Total/NA	Water	8015M/D	
885-17858-2	FY Raw	Total/NA	Water	8015M/D	
MB 885-18886/32	Method Blank	Total/NA	Water	8015M/D	
LCS 885-18886/3	Lab Control Sample	Total/NA	Water	8015M/D	

GC Semi VOA

Analysis Batch: 18977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17858-1	FY Treated Eff	Total/NA	Water	8015M/D	18978
885-17858-2	FY Raw	Total/NA	Water	8015M/D	18978
MB 885-18978/1-A	Method Blank	Total/NA	Water	8015M/D	18978
LCS 885-18978/2-A	Lab Control Sample	Total/NA	Water	8015M/D	18978
885-17858-2 MS	FY Raw	Total/NA	Water	8015M/D	18978
885-17858-2 MSD	FY Raw	Total/NA	Water	8015M/D	18978

Prep Batch: 18978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17858-1	FY Treated Eff	Total/NA	Water	3511	
885-17858-2	FY Raw	Total/NA	Water	3511	
MB 885-18978/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-18978/2-A	Lab Control Sample	Total/NA	Water	3511	
885-17858-2 MS	FY Raw	Total/NA	Water	3511	
885-17858-2 MSD	FY Raw	Total/NA	Water	3511	

Prep Batch: 19013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17858-1	FY Treated Eff	Total/NA	Water	8011	
885-17858-2	FY Raw	Total/NA	Water	8011	
885-17858-3	Trip Blank	Total/NA	Water	8011	
MB 885-19013/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-19013/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 885-19013/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MRL 885-19013/1-A	Lab Control Sample	Total/NA	Water	8011	

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State Lead Site

Job ID: 885-17858-1

GC Semi VOA

Analysis Batch: 19017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17858-1	FY Treated Eff	Total/NA	Water	8011	19013
885-17858-3	Trip Blank	Total/NA	Water	8011	19013
MB 885-19013/3-A	Method Blank	Total/NA	Water	8011	19013
LCS 885-19013/4-A	Lab Control Sample	Total/NA	Water	8011	19013
LCSD 885-19013/5-A	Lab Control Sample Dup	Total/NA	Water	8011	19013
MRL 885-19013/1-A	Lab Control Sample	Total/NA	Water	8011	19013

Analysis Batch: 19084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17858-2	FY Raw	Total/NA	Water	8011	19013

HPLC/IC

Analysis Batch: 18836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17858-1	FY Treated Eff	Total/NA	Water	300.0	
885-17858-1	FY Treated Eff	Total/NA	Water	300.0	
885-17858-2	FY Raw	Total/NA	Water	300.0	
885-17858-2	FY Raw	Total/NA	Water	300.0	
MB 885-18836/4	Method Blank	Total/NA	Water	300.0	
LCS 885-18836/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-18836/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 18837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17858-1	FY Treated Eff	Total/NA	Water	300.0	
885-17858-2	FY Raw	Total/NA	Water	300.0	
MB 885-18837/4	Method Blank	Total/NA	Water	300.0	
LCS 885-18837/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-18837/3	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 18885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17858-1	FY Treated Eff	Total/NA	Water	2540C	
885-17858-2	FY Raw	Total/NA	Water	2540C	
MB 885-18885/1	Method Blank	Total/NA	Water	2540C	
LCS 885-18885/2	Lab Control Sample	Total/NA	Water	2540C	

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-17858-1
Project/Site: Former Y Station State Lead Site

Client Sample ID: FY Treated Eff
Lab Sample ID: 885-17858-1

Date Collected: 01/02/25 09:50
Matrix: Water
Date Received: 01/03/25 14:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18863	JR	EET ALB	01/06/25 18:30
Total/NA	Analysis	8015M/D		1	18886	JP	EET ALB	01/07/25 09:29
Total/NA	Prep	8011			19013	KR	EET ALB	01/08/25 13:33
Total/NA	Analysis	8011		1	19017	KR	EET ALB	01/08/25 20:56
Total/NA	Prep	3511			18978	EM	EET ALB	01/08/25 09:10
Total/NA	Analysis	8015M/D		1	18977	MI	EET ALB	01/08/25 15:12
Total/NA	Analysis	300.0		1	18836	RC	EET ALB	01/06/25 16:03
Total/NA	Analysis	300.0		20	18836	RC	EET ALB	01/06/25 16:14
Total/NA	Analysis	300.0		5	18837	RC	EET ALB	01/06/25 20:28
Total/NA	Analysis	2540C		1	18885	KS	EET ALB	01/06/25 18:04

Client Sample ID: FY Raw
Lab Sample ID: 885-17858-2

Date Collected: 01/02/25 09:40
Matrix: Water
Date Received: 01/03/25 14:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		50	19009	JR	EET ALB	01/08/25 15:47
Total/NA	Analysis	8260B		5	18863	JR	EET ALB	01/06/25 18:58
Total/NA	Analysis	8015M/D		5	18886	JP	EET ALB	01/07/25 09:52
Total/NA	Prep	8011			19013	KR	EET ALB	01/08/25 13:33
Total/NA	Analysis	8011		100	19084	DH	EET ALB	01/09/25 18:04
Total/NA	Prep	3511			18978	EM	EET ALB	01/08/25 09:10
Total/NA	Analysis	8015M/D		1	18977	MI	EET ALB	01/08/25 15:23
Total/NA	Analysis	300.0		1	18836	RC	EET ALB	01/06/25 16:47
Total/NA	Analysis	300.0		20	18836	RC	EET ALB	01/06/25 16:58
Total/NA	Analysis	300.0		5	18837	RC	EET ALB	01/06/25 21:13
Total/NA	Analysis	2540C		1	18885	KS	EET ALB	01/06/25 18:04

Client Sample ID: Trip Blank
Lab Sample ID: 885-17858-3

Date Collected: 01/02/25 00:00
Matrix: Water
Date Received: 01/03/25 14:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18863	JR	EET ALB	01/06/25 19:52
Total/NA	Prep	8011			19013	KR	EET ALB	01/08/25 13:33
Total/NA	Analysis	8011		1	19017	KR	EET ALB	01/08/25 21:24

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17858-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Water	Gasoline Range Organics [C6 - C10]
8015M/D	3511	Water	Diesel Range Organics [C10-C28]
8015M/D	3511	Water	Motor Oil Range Organics [C28-C40]
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17858-1
Project/Site: Former Y Station State Lead Site

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Oregon	NELAP	NM100001	02-25-25

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
8011	8011	Water	1,2-Dibromoethane (EDB)

Chain-of-Custody Record

Client: Daniel B. Stephens & Associates

Mailing Address: 6620 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:

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.6+0.4=1.0 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

885-17858 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	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)	VOCs - EPA method 8260B	Sulfate/Chloride (300.0)	Nitrate (NO3) EPA (300.0)	TDS (SM2540C)	VOC's - EPA 8021B	TPH GRO - 8015B
1/2/25	0950	H_2O	FY Treated Eff	7-40ml, 1pl, 1-Amber	HCl, Th: 0 H_2SO_4			X		X							X	X	X	X	X	X
1/2/25	0940	H_2O	FY Raw	7-40ml, 1 pl, 1-Amber	HCl, Th: 0, H_2SO_4			X		X							X	X	X	X	X	X

Date	Time	Relinquished by	Received by	Via	Date	Time
1-3-25	14:45			COC	1-3-25	1446
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.

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc. Job Number: 885-17858-1

Login Number: 17858 **List Source: Eurofins Albuquerque**

List Number: 1

Creator: Dominguez, Desiree

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
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	

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1 2 3 4 5 6 7 8 9 10 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 2/7/2025 8:58:40 AM

JOB DESCRIPTION

Former Y Station State lead Site

JOB NUMBER

885-18878-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

myEOL

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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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.

GC 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.

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 885-18878-1 Eurofins Albuquerque

Job Narrative
885-18878-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 1/24/2025 2:06 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.8°C and 21.7°C.

Receipt Exceptions
Cooler with temp of 21.7 was exclusively used for air samples in Tedlar bags, and temp is considered acceptable, as air samples have no requirement for thermal preservation.

FY Treated Eff (885-18878-1), FY Raw (885-18878-2), FY Comb Inf (885-18878-3), FY OX Eff (885-18878-4) and Trip Blank (885-18878-5)

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): FY Comb Inf (885-18878-3) and FY OX Eff (885-18878-4). The container labels list s collection date of 01/23/25, while the COC lists 01/23/24. The client was contacted via voice message stating we have logged samples per container labels, but to contact is if this is in error.

Client called back to verify the collectiondate of 01/23/2025,

Tedlar bag for sample 3 contains 5-10 mL of liquid upon receipt. While there should be sufficient volume of air for analysis, the presence of water/liquid in the sample container may impact the results.

The container did not appear to be damaged in any way. Additionally, it was received in a cooler without any cooling medium/water present.

FY Comb Inf (885-18878-3)

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gasoline Range Organics
Method 8015D_GRO: Tedlar bag for sample 3 contains 5-10 mL of liquid upon receipt. While there should be sufficient volume of air for analysis, the presence of water/liquid in the sample container may impact the results.

The container did not appear to be damaged in any way. Additionally, it was received in a cooler without any cooling medium/water present.

FY Comb Inf (885-18878-3)

Method 8015D_GRO: Sample airbag arrived with liquid inside bag. Sample was analyzed without purging any of the liquid.

FY Comb Inf (885-18878-3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

Job ID: 885-18878-1 (Continued) Eurofins Albuquerque

Method 8021B: Tedlar bag for sample 3 contains 5-10 mL of liquid upon receipt. While there should be sufficient volume of air for analysis, the presence of water/liquid in the sample container may impact the results.

The container did not appear to be damaged in any way. Additionally, it was received in a cooler without any cooling medium/water present.

FY Comb Inf (885-18878-3)

Method 8021B: Sample airbag arrived with liquid inside bag. Sample was analyzed without purging any of the liquid.

FY Comb Inf (885-18878-3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8011: The following sample was diluted due to the abundance of target analytes: FY Raw (885-18878-2)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State lead Site

Job ID: 885-18878-1

Client Sample ID: FY Treated Eff
Date Collected: 01/24/25 08:14
Date Received: 01/24/25 14:06

Lab Sample ID: 885-18878-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.53	ug/L			01/28/25 17:19	2
1,1,1-Trichloroethane	ND		2.0	0.30	ug/L			01/28/25 17:19	2
1,1,2,2-Tetrachloroethane	ND		4.0	0.82	ug/L			01/28/25 17:19	2
1,1,2-Trichloroethane	ND		2.0	0.40	ug/L			01/28/25 17:19	2
1,1-Dichloroethane	ND		2.0	0.61	ug/L			01/28/25 17:19	2
1,1-Dichloroethene	ND		2.0	0.40	ug/L			01/28/25 17:19	2
1,1-Dichloropropene	ND		2.0	0.36	ug/L			01/28/25 17:19	2
1,2,3-Trichlorobenzene	ND		2.0	0.50	ug/L			01/28/25 17:19	2
1,2,3-Trichloropropane	ND		4.0	0.36	ug/L			01/28/25 17:19	2
1,2,4-Trichlorobenzene	ND		2.0	0.80	ug/L			01/28/25 17:19	2
1,2,4-Trimethylbenzene	ND		2.0	0.24	ug/L			01/28/25 17:19	2
1,2-Dibromo-3-Chloropropane	ND		4.0	1.5	ug/L			01/28/25 17:19	2
1,2-Dibromoethane (EDB)	ND		2.0	0.61	ug/L			01/28/25 17:19	2
1,2-Dichlorobenzene	ND		2.0	0.31	ug/L			01/28/25 17:19	2
1,2-Dichloroethane (EDC)	**0.60**	**J**	2.0	0.60	ug/L			01/28/25 17:19	2
1,2-Dichloropropane	ND		2.0	0.40	ug/L			01/28/25 17:19	2
1,3,5-Trimethylbenzene	ND		2.0	0.36	ug/L			01/28/25 17:19	2
1,3-Dichlorobenzene	ND		2.0	0.32	ug/L			01/28/25 17:19	2
1,3-Dichloropropane	ND		2.0	0.36	ug/L			01/28/25 17:19	2
1,4-Dichlorobenzene	ND		2.0	0.22	ug/L			01/28/25 17:19	2
1-Methylnaphthalene	ND		8.0	4.0	ug/L			01/28/25 17:19	2
2,2-Dichloropropane	ND		4.0	0.52	ug/L			01/28/25 17:19	2
2-Butanone	**10**	**J**	20	4.1	ug/L			01/28/25 17:19	2
2-Chlorotoluene	ND		2.0	0.28	ug/L			01/28/25 17:19	2
2-Hexanone	**5.6**	**J**	20	3.6	ug/L			01/28/25 17:19	2
2-Methylnaphthalene	ND		8.0	4.0	ug/L			01/28/25 17:19	2
4-Chlorotoluene	ND		2.0	0.27	ug/L			01/28/25 17:19	2
4-Isopropyltoluene	ND		2.0	0.40	ug/L			01/28/25 17:19	2
4-Methyl-2-pentanone	ND		20	3.0	ug/L			01/28/25 17:19	2
Acetone	**33**		20	5.0	ug/L			01/28/25 17:19	2
Benzene	ND		2.0	0.45	ug/L			01/28/25 17:19	2
Bromobenzene	ND		2.0	0.57	ug/L			01/28/25 17:19	2
Bromodichloromethane	ND		2.0	0.41	ug/L			01/28/25 17:19	2
Dibromochloromethane	ND		2.0	0.57	ug/L			01/28/25 17:19	2
Bromoform	ND		2.0	0.63	ug/L			01/28/25 17:19	2
Bromomethane	ND		6.0	2.0	ug/L			01/28/25 17:19	2
Carbon disulfide	ND		20	2.0	ug/L			01/28/25 17:19	2
Carbon tetrachloride	ND		2.0	0.36	ug/L			01/28/25 17:19	2
Chlorobenzene	ND		2.0	0.92	ug/L			01/28/25 17:19	2
Chloroethane	ND		4.0	0.75	ug/L			01/28/25 17:19	2
Chloroform	ND		2.0	0.50	ug/L			01/28/25 17:19	2
Chloromethane	ND		6.0	0.82	ug/L			01/28/25 17:19	2
cis-1,2-Dichloroethene	ND		2.0	0.78	ug/L			01/28/25 17:19	2
cis-1,3-Dichloropropene	ND		2.0	0.26	ug/L			01/28/25 17:19	2
Dibromomethane	ND		2.0	0.62	ug/L			01/28/25 17:19	2
Dichlorodifluoromethane	ND		2.0	1.5	ug/L			01/28/25 17:19	2
Ethylbenzene	ND		2.0	0.43	ug/L			01/28/25 17:19	2
Hexachlorobutadiene	ND		2.0	0.83	ug/L			01/28/25 17:19	2
Isopropylbenzene	ND		2.0	0.37	ug/L			01/28/25 17:19	2

Client Sample ID: FY Treated Eff **Lab Sample ID: 885-18878-1**
Date Collected: 01/24/25 08:14 **Matrix: Water**
Date Received: 01/24/25 14:06

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.0	0.79	ug/L			01/28/25 17:19	2
Methylene Chloride	ND		5.0	2.5	ug/L			01/28/25 17:19	2
n-Butylbenzene	ND		6.0	0.25	ug/L			01/28/25 17:19	2
N-Propylbenzene	ND		2.0	0.22	ug/L			01/28/25 17:19	2
Naphthalene	**0.62**	**J**	4.0	0.48	ug/L			01/28/25 17:19	2
sec-Butylbenzene	ND		2.0	0.29	ug/L			01/28/25 17:19	2
Styrene	ND		2.0	0.34	ug/L			01/28/25 17:19	2
tert-Butylbenzene	ND		2.0	0.49	ug/L			01/28/25 17:19	2
Tetrachloroethene (PCE)	ND		2.0	0.36	ug/L			01/28/25 17:19	2
Toluene	ND		2.0	0.50	ug/L			01/28/25 17:19	2
trans-1,2-Dichloroethene	ND		2.0	0.39	ug/L			01/28/25 17:19	2
trans-1,3-Dichloropropene	ND		2.0	0.68	ug/L			01/28/25 17:19	2
Trichloroethene (TCE)	ND		2.0	0.41	ug/L			01/28/25 17:19	2
Trichlorofluoromethane	ND		2.0	0.32	ug/L			01/28/25 17:19	2
Vinyl chloride	ND		2.0	0.64	ug/L			01/28/25 17:19	2
Xylenes, Total	ND		3.0	0.75	ug/L			01/28/25 17:19	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*01/28/25 17:19*	*2*
Toluene-d8 (Surr)	*98*		*70 - 130*		*01/28/25 17:19*	*2*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*01/28/25 17:19*	*2*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*01/28/25 17:19*	*2*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**0.040**	**J**	0.050	0.013	mg/L			01/28/25 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*15 - 270*		*01/28/25 20:37*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.046**		0.0096	0.0077	ug/L		01/27/25 12:39	02/06/25 12:22	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.58	mg/L		01/27/25 11:36	01/27/25 15:08	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.5	mg/L		01/27/25 11:36	01/27/25 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*114*		*46 - 159*	*01/27/25 11:36*	*01/27/25 15:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**73**		10	5.0	mg/L			01/24/25 18:04	20
Nitrate as N	**1.2**		0.10	0.020	mg/L			01/24/25 17:54	1
Sulfate	**38**		0.50	0.25	mg/L			01/24/25 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**380**		50	25	mg/L			01/29/25 09:35	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State lead Site

Job ID: 885-18878-1

Client Sample ID: FY Raw
Date Collected: 01/24/25 08:08
Date Received: 01/24/25 14:06

Lab Sample ID: 885-18878-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10	2.7	ug/L			01/28/25 18:43	10
1,1,1-Trichloroethane	ND		10	1.5	ug/L			01/28/25 18:43	10
1,1,2,2-Tetrachloroethane	ND		20	4.1	ug/L			01/28/25 18:43	10
1,1,2-Trichloroethane	ND		10	2.0	ug/L			01/28/25 18:43	10
1,1-Dichloroethane	ND		10	3.0	ug/L			01/28/25 18:43	10
1,1-Dichloroethene	ND		10	2.0	ug/L			01/28/25 18:43	10
1,1-Dichloropropene	ND		10	1.8	ug/L			01/28/25 18:43	10
1,2,3-Trichlorobenzene	ND		10	2.5	ug/L			01/28/25 18:43	10
1,2,3-Trichloropropane	ND		20	1.8	ug/L			01/28/25 18:43	10
1,2,4-Trichlorobenzene	ND		10	4.0	ug/L			01/28/25 18:43	10
1,2,4-Trimethylbenzene	**40**		10	1.2	ug/L			01/28/25 18:43	10
1,2-Dibromo-3-Chloropropane	ND		20	7.4	ug/L			01/28/25 18:43	10
1,2-Dibromoethane (EDB)	**4.4**	**J**	10	3.0	ug/L			01/28/25 18:43	10
1,2-Dichlorobenzene	ND		10	1.5	ug/L			01/28/25 18:43	10
1,2-Dichloroethane (EDC)	**66**		10	3.0	ug/L			01/28/25 18:43	10
1,2-Dichloropropane	ND		10	2.0	ug/L			01/28/25 18:43	10
1,3,5-Trimethylbenzene	**9.3**	**J**	10	1.8	ug/L			01/28/25 18:43	10
1,3-Dichlorobenzene	ND		10	1.6	ug/L			01/28/25 18:43	10
1,3-Dichloropropane	ND		10	1.8	ug/L			01/28/25 18:43	10
1,4-Dichlorobenzene	ND		10	1.1	ug/L			01/28/25 18:43	10
1-Methylnaphthalene	ND		40	20	ug/L			01/28/25 18:43	10
2,2-Dichloropropane	ND		20	2.6	ug/L			01/28/25 18:43	10
2-Butanone	**100**		100	20	ug/L			01/28/25 18:43	10
2-Chlorotoluene	ND		10	1.4	ug/L			01/28/25 18:43	10
2-Hexanone	**28**	**J**	100	18	ug/L			01/28/25 18:43	10
2-Methylnaphthalene	ND		40	20	ug/L			01/28/25 18:43	10
4-Chlorotoluene	ND		10	1.3	ug/L			01/28/25 18:43	10
4-Isopropyltoluene	ND		10	2.0	ug/L			01/28/25 18:43	10
4-Methyl-2-pentanone	**22**	**J**	100	15	ug/L			01/28/25 18:43	10
Acetone	ND		100	25	ug/L			01/28/25 18:43	10
Benzene	**770**		10	2.3	ug/L			01/28/25 18:43	10
Bromobenzene	ND		10	2.8	ug/L			01/28/25 18:43	10
Bromodichloromethane	ND		10	2.0	ug/L			01/28/25 18:43	10
Dibromochloromethane	ND		10	2.8	ug/L			01/28/25 18:43	10
Bromoform	ND		10	3.1	ug/L			01/28/25 18:43	10
Bromomethane	ND		30	10	ug/L			01/28/25 18:43	10
Carbon disulfide	ND		100	10	ug/L			01/28/25 18:43	10
Carbon tetrachloride	ND		10	1.8	ug/L			01/28/25 18:43	10
Chlorobenzene	ND		10	4.6	ug/L			01/28/25 18:43	10
Chloroethane	ND		20	3.8	ug/L			01/28/25 18:43	10
Chloroform	ND		10	2.5	ug/L			01/28/25 18:43	10
Chloromethane	ND		30	4.1	ug/L			01/28/25 18:43	10
cis-1,2-Dichloroethene	ND		10	3.9	ug/L			01/28/25 18:43	10
cis-1,3-Dichloropropene	ND		10	1.3	ug/L			01/28/25 18:43	10
Dibromomethane	ND		10	3.1	ug/L			01/28/25 18:43	10
Dichlorodifluoromethane	ND		10	7.3	ug/L			01/28/25 18:43	10
Ethylbenzene	**45**		10	2.1	ug/L			01/28/25 18:43	10
Hexachlorobutadiene	ND		10	4.2	ug/L			01/28/25 18:43	10
Isopropylbenzene	**3.9**	**J**	10	1.8	ug/L			01/28/25 18:43	10

Client Sample ID: FY Raw
Lab Sample ID: 885-18878-2
Date Collected: 01/24/25 08:08
Matrix: Water
Date Received: 01/24/25 14:06

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		10	3.9	ug/L			01/28/25 18:43	10
Methylene Chloride	ND		25	12	ug/L			01/28/25 18:43	10
n-Butylbenzene	ND		30	1.3	ug/L			01/28/25 18:43	10
N-Propylbenzene	**5.9**	**J**	10	1.1	ug/L			01/28/25 18:43	10
Naphthalene	**19**	**J**	20	2.4	ug/L			01/28/25 18:43	10
sec-Butylbenzene	ND		10	1.4	ug/L			01/28/25 18:43	10
Styrene	ND		10	1.7	ug/L			01/28/25 18:43	10
tert-Butylbenzene	ND		10	2.4	ug/L			01/28/25 18:43	10
Tetrachloroethene (PCE)	ND		10	1.8	ug/L			01/28/25 18:43	10
Toluene	**92**		10	2.5	ug/L			01/28/25 18:43	10
trans-1,2-Dichloroethene	ND		10	1.9	ug/L			01/28/25 18:43	10
trans-1,3-Dichloropropene	ND		10	3.4	ug/L			01/28/25 18:43	10
Trichloroethene (TCE)	ND		10	2.0	ug/L			01/28/25 18:43	10
Trichlorofluoromethane	ND		10	1.6	ug/L			01/28/25 18:43	10
Vinyl chloride	ND		10	3.2	ug/L			01/28/25 18:43	10
Xylenes, Total	**120**		15	3.7	ug/L			01/28/25 18:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*01/28/25 18:43*	*10*
Toluene-d8 (Surr)	*100*		*70 - 130*		*01/28/25 18:43*	*10*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*01/28/25 18:43*	*10*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*01/28/25 18:43*	*10*

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**3.2**		0.25	0.066	mg/L			01/28/25 21:48	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*15 - 270*		*01/28/25 21:48*	*5*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**3.1**	**D**	0.95	0.76	ug/L		01/27/25 12:39	02/05/25 15:40	100

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**0.67**	**J**	1.0	0.58	mg/L		01/27/25 11:36	01/27/25 15:41	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.5	mg/L		01/27/25 11:36	01/27/25 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*113*		*46 - 159*	*01/27/25 11:36*	*01/27/25 15:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68**		10	5.0	mg/L			01/24/25 18:25	20
Nitrate as N	**1.8**		0.10	0.020	mg/L			01/24/25 18:15	1
Sulfate	**41**		0.50	0.25	mg/L			01/24/25 18:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**370**		50	25	mg/L			01/29/25 09:35	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State lead Site

Job ID: 885-18878-1

Client Sample ID: FY Comb Inf

Lab Sample ID: 885-18878-3

Date Collected: 01/23/25 13:42
Matrix: Air
Date Received: 01/24/25 14:06
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	7200		250	66	ug/L			01/30/25 14:07	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*15 - 412*		*01/30/25 14:07*	*50*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	25		5.0	0.92	ug/L			01/30/25 12:31	50
Ethylbenzene	34		5.0	0.70	ug/L			01/30/25 12:31	50
Methyl-tert-butyl Ether (MTBE)	ND		13	2.2	ug/L			01/30/25 12:31	50
Toluene	240		5.0	1.0	ug/L			01/30/25 12:31	50
Xylenes, Total	150		10	1.6	ug/L			01/30/25 12:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*01/30/25 12:31*	*50*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y Station State lead Site

Job ID: 885-18878-1

Client Sample ID: FY OX Eff

Lab Sample ID: 885-18878-4

Date Collected: 01/23/25 13:34
Matrix: Air
Date Received: 01/24/25 14:06
Sample Container: Tedlar Bag 1L

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	1.3	ug/L			01/30/25 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*15 - 412*		*01/30/25 13:20*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.15**		0.10	0.018	ug/L			01/30/25 11:47	1
Ethylbenzene	ND		0.10	0.014	ug/L			01/30/25 11:47	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			01/30/25 11:47	1
Toluene	**0.065**	**J**	0.10	0.021	ug/L			01/30/25 11:47	1
Xylenes, Total	ND		0.20	0.031	ug/L			01/30/25 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*		*01/30/25 11:47*	*1*

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-18878-1
Project/Site: Former Y Station State lead Site

Client Sample ID: Trip Blank
Lab Sample ID: 885-18878-5
Date Collected: 01/24/25 00:00
Matrix: Water
Date Received: 01/24/25 14:06

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			01/28/25 19:10	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			01/28/25 19:10	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			01/28/25 19:10	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			01/28/25 19:10	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			01/28/25 19:10	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			01/28/25 19:10	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			01/28/25 19:10	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			01/28/25 19:10	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			01/28/25 19:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/28/25 19:10	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			01/28/25 19:10	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			01/28/25 19:10	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			01/28/25 19:10	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			01/28/25 19:10	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			01/28/25 19:10	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			01/28/25 19:10	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			01/28/25 19:10	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			01/28/25 19:10	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			01/28/25 19:10	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			01/28/25 19:10	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			01/28/25 19:10	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			01/28/25 19:10	1
2-Butanone	ND		10	2.0	ug/L			01/28/25 19:10	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			01/28/25 19:10	1
2-Hexanone	ND		10	1.8	ug/L			01/28/25 19:10	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			01/28/25 19:10	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			01/28/25 19:10	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			01/28/25 19:10	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			01/28/25 19:10	1
Acetone	ND		10	2.5	ug/L			01/28/25 19:10	1
Benzene	ND		1.0	0.23	ug/L			01/28/25 19:10	1
Bromobenzene	ND		1.0	0.28	ug/L			01/28/25 19:10	1
Bromodichloromethane	ND		1.0	0.20	ug/L			01/28/25 19:10	1
Dibromochloromethane	ND		1.0	0.28	ug/L			01/28/25 19:10	1
Bromoform	ND		1.0	0.31	ug/L			01/28/25 19:10	1
Bromomethane	ND		3.0	1.0	ug/L			01/28/25 19:10	1
Carbon disulfide	ND		10	1.0	ug/L			01/28/25 19:10	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			01/28/25 19:10	1
Chlorobenzene	ND		1.0	0.46	ug/L			01/28/25 19:10	1
Chloroethane	ND		2.0	0.38	ug/L			01/28/25 19:10	1
Chloroform	ND		1.0	0.25	ug/L			01/28/25 19:10	1
Chloromethane	ND		3.0	0.41	ug/L			01/28/25 19:10	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			01/28/25 19:10	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			01/28/25 19:10	1
Dibromomethane	ND		1.0	0.31	ug/L			01/28/25 19:10	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			01/28/25 19:10	1
Ethylbenzene	ND		1.0	0.21	ug/L			01/28/25 19:10	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			01/28/25 19:10	1
Isopropylbenzene	ND		1.0	0.18	ug/L			01/28/25 19:10	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-18878-1
Project/Site: Former Y Station State lead Site

Client Sample ID: Trip Blank **Lab Sample ID: 885-18878-5**
Date Collected: 01/24/25 00:00 **Matrix: Water**
Date Received: 01/24/25 14:06

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			01/28/25 19:10	1
Methylene Chloride	ND		2.5	1.2	ug/L			01/28/25 19:10	1
n-Butylbenzene	ND		3.0	0.13	ug/L			01/28/25 19:10	1
N-Propylbenzene	ND		1.0	0.11	ug/L			01/28/25 19:10	1
Naphthalene	ND		2.0	0.24	ug/L			01/28/25 19:10	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			01/28/25 19:10	1
Styrene	ND		1.0	0.17	ug/L			01/28/25 19:10	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			01/28/25 19:10	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			01/28/25 19:10	1
Toluene	ND		1.0	0.25	ug/L			01/28/25 19:10	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			01/28/25 19:10	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			01/28/25 19:10	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			01/28/25 19:10	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			01/28/25 19:10	1
Vinyl chloride	ND		1.0	0.32	ug/L			01/28/25 19:10	1
Xylenes, Total	ND		1.5	0.37	ug/L			01/28/25 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*01/28/25 19:10*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*01/28/25 19:10*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*01/28/25 19:10*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*01/28/25 19:10*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0095	0.0076	ug/L		01/30/25 08:50	02/05/25 17:36	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-19947/16
Matrix: Water
Analysis Batch: 19947

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			01/28/25 16:51	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			01/28/25 16:51	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			01/28/25 16:51	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			01/28/25 16:51	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			01/28/25 16:51	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			01/28/25 16:51	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			01/28/25 16:51	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			01/28/25 16:51	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			01/28/25 16:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/28/25 16:51	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			01/28/25 16:51	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			01/28/25 16:51	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			01/28/25 16:51	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			01/28/25 16:51	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			01/28/25 16:51	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			01/28/25 16:51	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			01/28/25 16:51	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			01/28/25 16:51	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			01/28/25 16:51	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			01/28/25 16:51	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			01/28/25 16:51	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			01/28/25 16:51	1
2-Butanone	ND		10	2.0	ug/L			01/28/25 16:51	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			01/28/25 16:51	1
2-Hexanone	ND		10	1.8	ug/L			01/28/25 16:51	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			01/28/25 16:51	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			01/28/25 16:51	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			01/28/25 16:51	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			01/28/25 16:51	1
Acetone	ND		10	2.5	ug/L			01/28/25 16:51	1
Benzene	ND		1.0	0.23	ug/L			01/28/25 16:51	1
Bromobenzene	ND		1.0	0.28	ug/L			01/28/25 16:51	1
Bromodichloromethane	ND		1.0	0.20	ug/L			01/28/25 16:51	1
Dibromochloromethane	ND		1.0	0.28	ug/L			01/28/25 16:51	1
Bromoform	ND		1.0	0.31	ug/L			01/28/25 16:51	1
Bromomethane	ND		3.0	1.0	ug/L			01/28/25 16:51	1
Carbon disulfide	ND		10	1.0	ug/L			01/28/25 16:51	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			01/28/25 16:51	1
Chlorobenzene	ND		1.0	0.46	ug/L			01/28/25 16:51	1
Chloroethane	ND		2.0	0.38	ug/L			01/28/25 16:51	1
Chloroform	ND		1.0	0.25	ug/L			01/28/25 16:51	1
Chloromethane	ND		3.0	0.41	ug/L			01/28/25 16:51	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			01/28/25 16:51	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			01/28/25 16:51	1
Dibromomethane	ND		1.0	0.31	ug/L			01/28/25 16:51	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			01/28/25 16:51	1
Ethylbenzene	ND		1.0	0.21	ug/L			01/28/25 16:51	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			01/28/25 16:51	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-19947/16
Matrix: Water
Analysis Batch: 19947

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.18	ug/L			01/28/25 16:51	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			01/28/25 16:51	1
Methylene Chloride	ND		2.5	1.2	ug/L			01/28/25 16:51	1
n-Butylbenzene	ND		3.0	0.13	ug/L			01/28/25 16:51	1
N-Propylbenzene	ND		1.0	0.11	ug/L			01/28/25 16:51	1
Naphthalene	ND		2.0	0.24	ug/L			01/28/25 16:51	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			01/28/25 16:51	1
Styrene	ND		1.0	0.17	ug/L			01/28/25 16:51	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			01/28/25 16:51	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			01/28/25 16:51	1
Toluene	ND		1.0	0.25	ug/L			01/28/25 16:51	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			01/28/25 16:51	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			01/28/25 16:51	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			01/28/25 16:51	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			01/28/25 16:51	1
Vinyl chloride	ND		1.0	0.32	ug/L			01/28/25 16:51	1
Xylenes, Total	ND		1.5	0.37	ug/L			01/28/25 16:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*01/28/25 16:51*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*01/28/25 16:51*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*01/28/25 16:51*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*01/28/25 16:51*	*1*

Lab Sample ID: LCS 885-19947/15
Matrix: Water
Analysis Batch: 19947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	20.2		ug/L		100	70 - 130		
Benzene			20.1	20.5		ug/L		102	70 - 130		
Chlorobenzene			20.1	20.2		ug/L		101	70 - 130		
Toluene			20.2	20.5		ug/L		101	70 - 130		
Trichloroethene (TCE)			20.2	19.6		ug/L		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: 885-18878-1 MS
Matrix: Water
Analysis Batch: 19947

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene	ND		40.3	39.8		ug/L		99	70 - 130		
Benzene	ND		40.2	41.6		ug/L		104	70 - 130		

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 885-18878-1 MS
Matrix: Water
Analysis Batch: 19947

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	ND		40.1	39.9		ug/L		99	70 - 130
Toluene	ND		40.3	39.7		ug/L		99	70 - 130
Trichloroethene (TCE)	ND		40.3	38.6		ug/L		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Lab Sample ID: 885-18878-1 MSD
Matrix: Water
Analysis Batch: 19947

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	ND		40.3	39.9		ug/L		99	70 - 130	0	20
Benzene	ND		40.2	41.9		ug/L		104	70 - 130	1	20
Chlorobenzene	ND		40.1	41.6		ug/L		104	70 - 130	4	20
Toluene	ND		40.3	41.2		ug/L		102	70 - 130	4	20
Trichloroethene (TCE)	ND		40.3	39.1		ug/L		97	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-19955/29
Matrix: Water
Analysis Batch: 19955

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 [C6 - C10]	ND		0.050	0.013	mg/L			01/28/25 20:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*15 - 270*		*01/28/25 20:13*	*1*

Lab Sample ID: LCS 885-19955/28
Matrix: Water
Analysis Batch: 19955

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 [C6 - C10]	0.500	0.450		mg/L		90	70 - 130

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 885-19955/28
Matrix: Water
Analysis Batch: 19955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	208		15 - 270

Lab Sample ID: 885-18878-1 MS
Matrix: Water
Analysis Batch: 19955

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	0.040	J	0.500	0.476		mg/L		87	41 - 148		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	210		15 - 270

Lab Sample ID: 885-18878-1 MSD
Matrix: Water
Analysis Batch: 19955

Client Sample ID: FY Treated Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	0.040	J	0.500	0.493		mg/L		91	41 - 148	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	214		15 - 270

Lab Sample ID: MB 885-20085/4
Matrix: Air
Analysis Batch: 20085

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 [C6 - C10]	ND		5.0	1.3	ug/L			01/30/25 12:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 412		01/30/25 12:56	1

Lab Sample ID: LCS 885-20085/3
Matrix: Air
Analysis Batch: 20085

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 [C6 - C10]			50.0	46.7		ug/L		93	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	198		15 - 412

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-18878-4 DU
Matrix: Air
Analysis Batch: 20085

Client Sample ID: FY OX Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND			ND		ug/L				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*15 - 412*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-20067/7
Matrix: Air
Analysis Batch: 20067

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10	0.018	ug/L			01/30/25 11:25	1
Ethylbenzene	ND		0.10	0.014	ug/L			01/30/25 11:25	1
Methyl-tert-butyl Ether (MTBE)	ND		0.25	0.043	ug/L			01/30/25 11:25	1
Toluene	ND		0.10	0.021	ug/L			01/30/25 11:25	1
Xylenes, Total	ND		0.20	0.031	ug/L			01/30/25 11:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*01/30/25 11:25*	*1*

Lab Sample ID: LCS 885-20067/6
Matrix: Air
Analysis Batch: 20067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			2.00	1.77		ug/L		88	70 - 130		
Ethylbenzene			2.00	1.82		ug/L		91	70 - 130		
m&p-Xylene			4.00	3.71		ug/L		93	70 - 130		
Methyl-tert-butyl Ether (MTBE)			2.00	1.91		ug/L		96	70 - 130		
o-Xylene			2.00	1.87		ug/L		93	70 - 130		
Toluene			2.00	1.80		ug/L		90	70 - 130		
Xylenes, Total			6.00	5.58		ug/L		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 885-18878-4 DU
Matrix: Air
Analysis Batch: 20067

Client Sample ID: FY OX Eff
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Benzene	0.15			0.164		ug/L				7	20
Ethylbenzene	ND			ND		ug/L				NC	20
Methyl-tert-butyl Ether (MTBE)	ND			ND		ug/L				NC	20
Toluene	0.065	J		0.0730	J	ug/L				12	20
Xylenes, Total	ND			ND		ug/L				NC	20

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-18878-4 DU
Matrix: Air
Analysis Batch: 20067

Client Sample ID: FY OX Eff
Prep Type: Total/NA

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-19894/3-A
Matrix: Water
Analysis Batch: 19904

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19894

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0080	ug/L		01/27/25 12:39	01/27/25 21:52	1

Lab Sample ID: LCS 885-19894/4-A
Matrix: Water
Analysis Batch: 19904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.100	0.0990		ug/L		99	70 - 130

Lab Sample ID: LCSD 885-19894/5-A
Matrix: Water
Analysis Batch: 19904

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 19894

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.100	0.102		ug/L		102	70 - 130	3	20

Lab Sample ID: MRL 885-19894/1-A
Matrix: Water
Analysis Batch: 20325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19894

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0100	0.0139		ug/L		139	60 - 140

Lab Sample ID: MB 885-20065/3-A
Matrix: Water
Analysis Batch: 20325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20065

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0080	ug/L		01/30/25 08:39	02/05/25 16:38	1

Lab Sample ID: LCS 885-20065/4-A
Matrix: Water
Analysis Batch: 20325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20065

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.100	0.0719		ug/L		72	70 - 130

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 885-20065/5-A
Matrix: Water
Analysis Batch: 20325

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20065

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)			0.100	0.0803		ug/L		80	70 - 130	11	20

Lab Sample ID: MRL 885-20065/1-A
Matrix: Water
Analysis Batch: 20325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20065

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1,2-Dibromoethane (EDB)			0.0100	0.0116		ug/L		116	60 - 140		

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-19888/1-A
Matrix: Water
Analysis Batch: 19855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.58	mg/L		01/27/25 11:36	01/27/25 14:46	1
Motor Oil Range Organics [C28-C40]	ND		5.0	1.5	mg/L		01/27/25 11:36	01/27/25 14:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*111*		*46 - 159*	*01/27/25 11:36*	*01/27/25 14:46*	*1*

Lab Sample ID: LCS 885-19888/2-A
Matrix: Water
Analysis Batch: 19855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19888

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			2.50	2.72		mg/L		109	57 - 147		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*111*		*46 - 159*

Lab Sample ID: 885-18878-1 MS
Matrix: Water
Analysis Batch: 19855

Client Sample ID: FY Treated Eff
Prep Type: Total/NA
Prep Batch: 19888

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		2.50	3.30		mg/L		132	33 - 161		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*111*		*46 - 159*

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-18878-1 MSD
Matrix: Water
Analysis Batch: 19855

Client Sample ID: FY Treated Eff
Prep Type: Total/NA
Prep Batch: 19888

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		2.50	3.37		mg/L		135	33 - 161	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*114*		*46 - 159*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-19784/4
Matrix: Water
Analysis Batch: 19784

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			01/24/25 07:58	1
Sulfate	ND		0.50	0.25	mg/L			01/24/25 07:58	1

Lab Sample ID: LCS 885-19784/5
Matrix: Water
Analysis Batch: 19784

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	5.17		mg/L		103	90 - 110
Sulfate	10.0	10.2		mg/L		102	90 - 110

Lab Sample ID: MRL 885-19784/3
Matrix: Water
Analysis Batch: 19784

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.539		mg/L		108	50 - 150
Sulfate	0.500	0.542		mg/L		108	50 - 150

Lab Sample ID: MB 885-19787/4
Matrix: Water
Analysis Batch: 19787

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	ND		0.10	0.020	mg/L			01/24/25 07:58	1

Lab Sample ID: LCS 885-19787/5
Matrix: Water
Analysis Batch: 19787

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	2.50	2.71		mg/L		108	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 885-19787/3
Matrix: Water
Analysis Batch: 19787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.100	0.107		mg/L		107	50 - 150		

Method: 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 885-20000/1
Matrix: Water
Analysis Batch: 20000

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	25	mg/L			01/29/25 09:35	1

Lab Sample ID: LCS 885-20000/2
Matrix: Water
Analysis Batch: 20000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	983		mg/L		98	80 - 120		

GC/MS VOA

Analysis Batch: 19947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18878-1	FY Treated Eff	Total/NA	Water	8260B	
885-18878-2	FY Raw	Total/NA	Water	8260B	
885-18878-5	Trip Blank	Total/NA	Water	8260B	
MB 885-19947/16	Method Blank	Total/NA	Water	8260B	
LCS 885-19947/15	Lab Control Sample	Total/NA	Water	8260B	
885-18878-1 MS	FY Treated Eff	Total/NA	Water	8260B	
885-18878-1 MSD	FY Treated Eff	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 19955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18878-1	FY Treated Eff	Total/NA	Water	8015M/D	
885-18878-2	FY Raw	Total/NA	Water	8015M/D	
MB 885-19955/29	Method Blank	Total/NA	Water	8015M/D	
LCS 885-19955/28	Lab Control Sample	Total/NA	Water	8015M/D	
885-18878-1 MS	FY Treated Eff	Total/NA	Water	8015M/D	
885-18878-1 MSD	FY Treated Eff	Total/NA	Water	8015M/D	

Analysis Batch: 20067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18878-3	FY Comb Inf	Total/NA	Air	8021B	
885-18878-4	FY OX Eff	Total/NA	Air	8021B	
MB 885-20067/7	Method Blank	Total/NA	Air	8021B	
LCS 885-20067/6	Lab Control Sample	Total/NA	Air	8021B	
885-18878-4 DU	FY OX Eff	Total/NA	Air	8021B	

Analysis Batch: 20085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18878-3	FY Comb Inf	Total/NA	Air	8015M/D	
885-18878-4	FY OX Eff	Total/NA	Air	8015M/D	
MB 885-20085/4	Method Blank	Total/NA	Air	8015M/D	
LCS 885-20085/3	Lab Control Sample	Total/NA	Air	8015M/D	
885-18878-4 DU	FY OX Eff	Total/NA	Air	8015M/D	

GC Semi VOA

Analysis Batch: 19855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18878-1	FY Treated Eff	Total/NA	Water	8015M/D	19888
885-18878-2	FY Raw	Total/NA	Water	8015M/D	19888
MB 885-19888/1-A	Method Blank	Total/NA	Water	8015M/D	19888
LCS 885-19888/2-A	Lab Control Sample	Total/NA	Water	8015M/D	19888
885-18878-1 MS	FY Treated Eff	Total/NA	Water	8015M/D	19888
885-18878-1 MSD	FY Treated Eff	Total/NA	Water	8015M/D	19888

Prep Batch: 19888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18878-1	FY Treated Eff	Total/NA	Water	3511	
885-18878-2	FY Raw	Total/NA	Water	3511	
MB 885-19888/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-19888/2-A	Lab Control Sample	Total/NA	Water	3511	

GC Semi VOA (Continued)

Prep Batch: 19888 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18878-1 MS	FY Treated Eff	Total/NA	Water	3511	
885-18878-1 MSD	FY Treated Eff	Total/NA	Water	3511	

Prep Batch: 19894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18878-1	FY Treated Eff	Total/NA	Water	8011	
885-18878-2	FY Raw	Total/NA	Water	8011	
MB 885-19894/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-19894/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 885-19894/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MRL 885-19894/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 19904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-19894/3-A	Method Blank	Total/NA	Water	8011	19894
LCS 885-19894/4-A	Lab Control Sample	Total/NA	Water	8011	19894
LCSD 885-19894/5-A	Lab Control Sample Dup	Total/NA	Water	8011	19894

Prep Batch: 20065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18878-5	Trip Blank	Total/NA	Water	8011	
MB 885-20065/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-20065/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 885-20065/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MRL 885-20065/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 20325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18878-2	FY Raw	Total/NA	Water	8011	19894
885-18878-5	Trip Blank	Total/NA	Water	8011	20065
MB 885-20065/3-A	Method Blank	Total/NA	Water	8011	20065
LCS 885-20065/4-A	Lab Control Sample	Total/NA	Water	8011	20065
LCSD 885-20065/5-A	Lab Control Sample Dup	Total/NA	Water	8011	20065
MRL 885-19894/1-A	Lab Control Sample	Total/NA	Water	8011	19894
MRL 885-20065/1-A	Lab Control Sample	Total/NA	Water	8011	20065

Analysis Batch: 20381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18878-1	FY Treated Eff	Total/NA	Water	8011	19894

HPLC/IC

Analysis Batch: 19784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18878-1	FY Treated Eff	Total/NA	Water	300.0	
885-18878-1	FY Treated Eff	Total/NA	Water	300.0	
885-18878-2	FY Raw	Total/NA	Water	300.0	
885-18878-2	FY Raw	Total/NA	Water	300.0	
MB 885-19784/4	Method Blank	Total/NA	Water	300.0	
LCS 885-19784/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-19784/3	Lab Control Sample	Total/NA	Water	300.0	

HPLC/IC

Analysis Batch: 19787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18878-1	FY Treated Eff	Total/NA	Water	300.0	
885-18878-2	FY Raw	Total/NA	Water	300.0	
MB 885-19787/4	Method Blank	Total/NA	Water	300.0	
LCS 885-19787/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-19787/3	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 20000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18878-1	FY Treated Eff	Total/NA	Water	2540C	
885-18878-2	FY Raw	Total/NA	Water	2540C	
MB 885-20000/1	Method Blank	Total/NA	Water	2540C	
LCS 885-20000/2	Lab Control Sample	Total/NA	Water	2540C	

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-18878-1
Project/Site: Former Y Station State lead Site

Client Sample ID: FY Treated Eff — Lab Sample ID: 885-18878-1

Date Collected: 01/24/25 08:14 — **Matrix: Water**
Date Received: 01/24/25 14:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	19947	RA	EET ALB	01/28/25 17:19
Total/NA	Analysis	8015M/D		1	19955	JP	EET ALB	01/28/25 20:37
Total/NA	Prep	8011			19894	KR	EET ALB	01/27/25 12:39
Total/NA	Analysis	8011		1	20381	KR	EET ALB	02/06/25 12:22
Total/NA	Prep	3511			19888	MI	EET ALB	01/27/25 11:36
Total/NA	Analysis	8015M/D		1	19855	MI	EET ALB	01/27/25 15:08
Total/NA	Analysis	300.0		1	19784	RC	EET ALB	01/24/25 17:54
Total/NA	Analysis	300.0		1	19787	EH	EET ALB	01/24/25 17:54
Total/NA	Analysis	300.0		20	19784	RC	EET ALB	01/24/25 18:04
Total/NA	Analysis	2540C		1	20000	KS	EET ALB	01/29/25 09:35

Client Sample ID: FY Raw — Lab Sample ID: 885-18878-2

Date Collected: 01/24/25 08:08 — **Matrix: Water**
Date Received: 01/24/25 14:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		10	19947	RA	EET ALB	01/28/25 18:43
Total/NA	Analysis	8015M/D		5	19955	JP	EET ALB	01/28/25 21:48
Total/NA	Prep	8011			19894	KR	EET ALB	01/27/25 12:39
Total/NA	Analysis	8011		100	20325	KR	EET ALB	02/05/25 15:40
Total/NA	Prep	3511			19888	MI	EET ALB	01/27/25 11:36
Total/NA	Analysis	8015M/D		1	19855	MI	EET ALB	01/27/25 15:41
Total/NA	Analysis	300.0		1	19784	RC	EET ALB	01/24/25 18:15
Total/NA	Analysis	300.0		1	19787	EH	EET ALB	01/24/25 18:15
Total/NA	Analysis	300.0		20	19784	RC	EET ALB	01/24/25 18:25
Total/NA	Analysis	2540C		1	20000	KS	EET ALB	01/29/25 09:35

Client Sample ID: FY Comb Inf — Lab Sample ID: 885-18878-3

Date Collected: 01/23/25 13:42 — **Matrix: Air**
Date Received: 01/24/25 14:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		50	20085	JP	EET ALB	01/30/25 14:07
Total/NA	Analysis	8021B		50	20067	AT	EET ALB	01/30/25 12:31

Client Sample ID: FY OX Eff — Lab Sample ID: 885-18878-4

Date Collected: 01/23/25 13:34 — **Matrix: Air**
Date Received: 01/24/25 14:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015M/D		1	20085	JP	EET ALB	01/30/25 13:20
Total/NA	Analysis	8021B		1	20067	AT	EET ALB	01/30/25 11:47

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-18878-1
Project/Site: Former Y Station State lead Site

Client Sample ID: Trip Blank
Lab Sample ID: 885-18878-5

Date Collected: 01/24/25 00:00
Matrix: Water

Date Received: 01/24/25 14:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	19947	RA	EET ALB	01/28/25 19:10
Total/NA	Prep	8011			20065	KR	EET ALB	01/30/25 08:50
Total/NA	Analysis	8011		1	20325	KR	EET ALB	02/05/25 17:36

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-18878-1
Project/Site: Former Y Station State lead Site

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
300.0		Water	Nitrate as N
300.0		Water	Sulfate
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8015M/D		Water	Gasoline Range Organics [C6 - C10]
8015M/D	3511	Water	Diesel Range Organics [C10-C28]
8015M/D	3511	Water	Motor Oil Range Organics [C28-C40]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-18878-1
Project/Site: Former Y Station State lead Site

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Oregon	NELAP	NM100001	02-25-25

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
8011	8011	Water	1,2-Dibromoethane (EDB)
8015M/D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Methyl-tert-butyl Ether (MTBE)
8021B		Air	Toluene
8021B		Air	Xylenes, Total

Chain-of-Custody Record

Client: DBSA

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

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 & D. Vazquez

On Ice: ☐ Yes ☐ No

# of Coolers: 2

Cooler Temp (including CF): 5.9-0.1=5.8 (°C) 21.8-0.1=21.7

HEAL No.

HALL ENVIRONMENTAL ANALYSIS LABOR
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 8710
Tel. 505-345-3975 Fax 505-345-4107

885-18878 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
1/24/25	8:14	H2O	FY Treated Eff	7-40ml, 1-plastic, 1-Amber	HCl, ThiO, H2SO4	
	8:08	H2O	FY Raw			
1/23/24	13:42	Air	FY Comb Inf	1-Tedlar	N/A	
	13:34		FY OX Eff			
			Trip Blank	1/24/25		

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)	8015B TPH GRO	8015B TPH DRO	300.0 Sulfate/Chloride	300.0 Nitrate (as N)	SM 2540C TDS
			X				X			X	X	X	X	X
			X				X			X	X	X	X	X
X	X													
X	X													
			X				X							

Date	Time	Relinquished by	Received by	Via	Date	Time
1/24/25	14:06			CDO	1/24/25	14:06
Date	Time	Relinquished by	Received by	Via	Date	Time

Remarks: Temp 21.7 is only for Tedlar. JW 1/24/25

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

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc. Job Number: 885-18878-1

Login Number: 18878 **List Source: Eurofins Albuquerque**

List Number: 1

Creator: Proctor, Nancy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
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	

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1 2 3 4 5 6 7 8 9 10 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

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JOB DESCRIPTION

Former Y

JOB NUMBER

885-17241-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

myEOL

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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Definitions/Glossary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17241-1
Project/Site: Former Y

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.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
885-17241-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 12/18/2024 1:31 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 885-18508 recovered outside acceptance criteria, low biased, for 1-Methylnaphthalene and 2-Methylnaphthalene. Since the associated samples were non-detect for the analytes, the data is being reported.

Method 8260B: The continuing calibration verification (CCV) associated with batch 885-18509 recovered outside acceptance criteria, low biased, for Bromomethane. Since the associated samples were non-detect for the analyte, the data is being reported.

Method 8260B: The continuing calibration verification (CCV) associated with batch 885-18537 recovered outside acceptance criteria, low biased, for Bromomethane. Since the associated samples were non-detect for the analyte, the data is being reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8011: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 885-18099 and analytical batch 885-18137 recovered outside control limits for the following analytes: 1,2-Dibromoethane (EDB). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8011: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 885-18099 and analytical batch 885-18137 recovered outside control limits for the following analytes: 1,2-Dibromoethane (EDB).

Method 8011: The continuing calibration verification (CCV) associated with batch 885-18137 recovered above the upper control limit for 1,2-Dibromoethane (EDB). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: BW-4 (885-17241-3).

Method 8011: The continuing calibration verification (CCV) associated with batch 885-18137 recovered above the upper control limit for 1,2-Dibromoethane (EDB). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: MW-17 (885-17241-2).

Method 8011: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 885-18323 and analytical batch 885-18352 recovered outside control limits for the following analytes: 1,2-Dibromoethane (EDB). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8011: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 885-18323 and analytical batch 885-18352 recovered outside control limits for the following analytes: 1,2-Dibromoethane (EDB).

Method 8011: The continuing calibration verification (CCV) associated with batch 885-18352 recovered above the upper control

Job ID: 885-17241-1 (Continued) Eurofins Albuquerque

limit for 1,2-Dibromoethane (EDB). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-13 (885-17241-7), BW-7R (885-17241-8), RW-4 (885-17241-9), MW-11 (885-17241-10), MW-16 (885-17241-11), BW-9 (885-17241-12), BW-10 (885-17241-13), BW-14 (885-17241-14) and TRIP BLANK (885-17241-15).

Method 8011: The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for preparation batch 885-18226 and analytical batch 885-18738 recovered outside the upper control limit for the following analytes: 1,2-Dibromoethane (EDB).. The following associated samples have detections: MW-15 (885-17241-1), BW-8 (885-17241-4), BW-5 (885-17241-5) and MW-12 (885-17241-6). Original batch and re-extraction batch both had failing high QC; all results are confirmed; instrument post-calibration has acceptable opening QC and diluted results confirm originals. Reporting dilution results as is,

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17241-1

Client Sample ID: MW-15
Date Collected: 12/17/24 11:12
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			12/27/24 18:27	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			12/27/24 18:27	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			12/27/24 18:27	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			12/27/24 18:27	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/27/24 18:27	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/27/24 18:27	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			12/27/24 18:27	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			12/27/24 18:27	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			12/27/24 18:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/27/24 18:27	1
1,2,4-Trimethylbenzene	**0.30**	**J**	1.0	0.12	ug/L			12/27/24 18:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			12/27/24 18:27	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			12/27/24 18:27	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/27/24 18:27	1
1,2-Dichloroethane (EDC)	**1.4**		1.0	0.30	ug/L			12/27/24 18:27	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			12/27/24 18:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			12/27/24 18:27	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			12/27/24 18:27	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			12/27/24 18:27	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			12/27/24 18:27	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			12/27/24 18:27	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			12/27/24 18:27	1
2-Butanone	ND		10	2.0	ug/L			12/27/24 18:27	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			12/27/24 18:27	1
2-Hexanone	ND		10	1.8	ug/L			12/27/24 18:27	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			12/27/24 18:27	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			12/27/24 18:27	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			12/27/24 18:27	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			12/27/24 18:27	1
Acetone	ND		10	2.5	ug/L			12/27/24 18:27	1
Benzene	**15**		1.0	0.23	ug/L			12/27/24 18:27	1
Bromobenzene	ND		1.0	0.28	ug/L			12/27/24 18:27	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/27/24 18:27	1
Dibromochloromethane	ND		1.0	0.28	ug/L			12/27/24 18:27	1
Bromoform	ND		1.0	0.31	ug/L			12/27/24 18:27	1
Bromomethane	ND		3.0	1.0	ug/L			12/27/24 18:27	1
Carbon disulfide	ND		10	1.0	ug/L			12/27/24 18:27	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			12/27/24 18:27	1
Chlorobenzene	ND		1.0	0.46	ug/L			12/27/24 18:27	1
Chloroethane	ND		2.0	0.38	ug/L			12/27/24 18:27	1
Chloroform	ND		1.0	0.25	ug/L			12/27/24 18:27	1
Chloromethane	ND		3.0	0.41	ug/L			12/27/24 18:27	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/27/24 18:27	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			12/27/24 18:27	1
Dibromomethane	ND		1.0	0.31	ug/L			12/27/24 18:27	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			12/27/24 18:27	1
Ethylbenzene	ND		1.0	0.21	ug/L			12/27/24 18:27	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			12/27/24 18:27	1
Isopropylbenzene	ND		1.0	0.18	ug/L			12/27/24 18:27	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17241-1
Project/Site: Former Y

Client Sample ID: MW-15 **Lab Sample ID: 885-17241-1**
Date Collected: 12/17/24 11:12 **Matrix: Water**
Date Received: 12/18/24 13:31

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			12/27/24 18:27	1
Methylene Chloride	ND		2.5	1.2	ug/L			12/27/24 18:27	1
n-Butylbenzene	ND		3.0	0.13	ug/L			12/27/24 18:27	1
N-Propylbenzene	ND		1.0	0.11	ug/L			12/27/24 18:27	1
Naphthalene	ND		2.0	0.24	ug/L			12/27/24 18:27	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			12/27/24 18:27	1
Styrene	ND		1.0	0.17	ug/L			12/27/24 18:27	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			12/27/24 18:27	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			12/27/24 18:27	1
Toluene	ND		1.0	0.25	ug/L			12/27/24 18:27	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			12/27/24 18:27	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			12/27/24 18:27	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			12/27/24 18:27	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			12/27/24 18:27	1
Vinyl chloride	ND		1.0	0.32	ug/L			12/27/24 18:27	1
Xylenes, Total	**0.78**	**J**	1.5	0.37	ug/L			12/27/24 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*		*12/27/24 18:27*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*12/27/24 18:27*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*12/27/24 18:27*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*12/27/24 18:27*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.18**		0.094	0.075	ug/L		12/20/24 12:13	01/02/25 19:59	10

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17241-1

Client Sample ID: MW-17
Date Collected: 12/17/24 11:00
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			12/27/24 18:54	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			12/27/24 18:54	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			12/27/24 18:54	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			12/27/24 18:54	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/27/24 18:54	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/27/24 18:54	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			12/27/24 18:54	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			12/27/24 18:54	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			12/27/24 18:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/27/24 18:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			12/27/24 18:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			12/27/24 18:54	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			12/27/24 18:54	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/27/24 18:54	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			12/27/24 18:54	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			12/27/24 18:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			12/27/24 18:54	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			12/27/24 18:54	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			12/27/24 18:54	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			12/27/24 18:54	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			12/27/24 18:54	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			12/27/24 18:54	1
2-Butanone	ND		10	2.0	ug/L			12/27/24 18:54	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			12/27/24 18:54	1
2-Hexanone	ND		10	1.8	ug/L			12/27/24 18:54	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			12/27/24 18:54	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			12/27/24 18:54	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			12/27/24 18:54	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			12/27/24 18:54	1
Acetone	ND		10	2.5	ug/L			12/27/24 18:54	1
Benzene	ND		1.0	0.23	ug/L			12/27/24 18:54	1
Bromobenzene	ND		1.0	0.28	ug/L			12/27/24 18:54	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/27/24 18:54	1
Dibromochloromethane	ND		1.0	0.28	ug/L			12/27/24 18:54	1
Bromoform	ND		1.0	0.31	ug/L			12/27/24 18:54	1
Bromomethane	ND		3.0	1.0	ug/L			12/27/24 18:54	1
Carbon disulfide	ND		10	1.0	ug/L			12/27/24 18:54	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			12/27/24 18:54	1
Chlorobenzene	ND		1.0	0.46	ug/L			12/27/24 18:54	1
Chloroethane	ND		2.0	0.38	ug/L			12/27/24 18:54	1
Chloroform	ND		1.0	0.25	ug/L			12/27/24 18:54	1
Chloromethane	ND		3.0	0.41	ug/L			12/27/24 18:54	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/27/24 18:54	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			12/27/24 18:54	1
Dibromomethane	ND		1.0	0.31	ug/L			12/27/24 18:54	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			12/27/24 18:54	1
Ethylbenzene	ND		1.0	0.21	ug/L			12/27/24 18:54	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			12/27/24 18:54	1
Isopropylbenzene	ND		1.0	0.18	ug/L			12/27/24 18:54	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17241-1
Project/Site: Former Y

Client Sample ID: MW-17 **Lab Sample ID: 885-17241-2**
Date Collected: 12/17/24 11:00 **Matrix: Water**
Date Received: 12/18/24 13:31

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			12/27/24 18:54	1
Methylene Chloride	ND		2.5	1.2	ug/L			12/27/24 18:54	1
n-Butylbenzene	ND		3.0	0.13	ug/L			12/27/24 18:54	1
N-Propylbenzene	ND		1.0	0.11	ug/L			12/27/24 18:54	1
Naphthalene	ND		2.0	0.24	ug/L			12/27/24 18:54	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			12/27/24 18:54	1
Styrene	ND		1.0	0.17	ug/L			12/27/24 18:54	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			12/27/24 18:54	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			12/27/24 18:54	1
Toluene	ND		1.0	0.25	ug/L			12/27/24 18:54	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			12/27/24 18:54	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			12/27/24 18:54	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			12/27/24 18:54	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			12/27/24 18:54	1
Vinyl chloride	ND		1.0	0.32	ug/L			12/27/24 18:54	1
Xylenes, Total	ND		1.5	0.37	ug/L			12/27/24 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*		*12/27/24 18:54*	*1*
Toluene-d8 (Surr)	*117*		*70 - 130*		*12/27/24 18:54*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*12/27/24 18:54*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*12/27/24 18:54*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0095	0.0076	ug/L		12/19/24 10:11	12/19/24 18:42	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-17241-1
Project/Site: Former Y

Client Sample ID: BW-4
Lab Sample ID: 885-17241-3
Date Collected: 12/17/24 16:43
Matrix: Water
Date Received: 12/18/24 13:31

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			12/27/24 19:22	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			12/27/24 19:22	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			12/27/24 19:22	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			12/27/24 19:22	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/27/24 19:22	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/27/24 19:22	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			12/27/24 19:22	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			12/27/24 19:22	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			12/27/24 19:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/27/24 19:22	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			12/27/24 19:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			12/27/24 19:22	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			12/27/24 19:22	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/27/24 19:22	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			12/27/24 19:22	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			12/27/24 19:22	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			12/27/24 19:22	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			12/27/24 19:22	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			12/27/24 19:22	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			12/27/24 19:22	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			12/27/24 19:22	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			12/27/24 19:22	1
2-Butanone	ND		10	2.0	ug/L			12/27/24 19:22	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			12/27/24 19:22	1
2-Hexanone	ND		10	1.8	ug/L			12/27/24 19:22	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			12/27/24 19:22	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			12/27/24 19:22	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			12/27/24 19:22	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			12/27/24 19:22	1
Acetone	ND		10	2.5	ug/L			12/27/24 19:22	1
Benzene	ND		1.0	0.23	ug/L			12/27/24 19:22	1
Bromobenzene	ND		1.0	0.28	ug/L			12/27/24 19:22	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/27/24 19:22	1
Dibromochloromethane	ND		1.0	0.28	ug/L			12/27/24 19:22	1
Bromoform	ND		1.0	0.31	ug/L			12/27/24 19:22	1
Bromomethane	ND		3.0	1.0	ug/L			12/27/24 19:22	1
Carbon disulfide	ND		10	1.0	ug/L			12/27/24 19:22	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			12/27/24 19:22	1
Chlorobenzene	ND		1.0	0.46	ug/L			12/27/24 19:22	1
Chloroethane	ND		2.0	0.38	ug/L			12/27/24 19:22	1
Chloroform	ND		1.0	0.25	ug/L			12/27/24 19:22	1
Chloromethane	ND		3.0	0.41	ug/L			12/27/24 19:22	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/27/24 19:22	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			12/27/24 19:22	1
Dibromomethane	ND		1.0	0.31	ug/L			12/27/24 19:22	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			12/27/24 19:22	1
Ethylbenzene	ND		1.0	0.21	ug/L			12/27/24 19:22	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			12/27/24 19:22	1
Isopropylbenzene	ND		1.0	0.18	ug/L			12/27/24 19:22	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17241-1
Project/Site: Former Y

Client Sample ID: BW-4 **Lab Sample ID: 885-17241-3**
Date Collected: 12/17/24 16:43 **Matrix: Water**
Date Received: 12/18/24 13:31

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			12/27/24 19:22	1
Methylene Chloride	ND		2.5	1.2	ug/L			12/27/24 19:22	1
n-Butylbenzene	ND		3.0	0.13	ug/L			12/27/24 19:22	1
N-Propylbenzene	ND		1.0	0.11	ug/L			12/27/24 19:22	1
Naphthalene	ND		2.0	0.24	ug/L			12/27/24 19:22	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			12/27/24 19:22	1
Styrene	ND		1.0	0.17	ug/L			12/27/24 19:22	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			12/27/24 19:22	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			12/27/24 19:22	1
Toluene	ND		1.0	0.25	ug/L			12/27/24 19:22	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			12/27/24 19:22	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			12/27/24 19:22	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			12/27/24 19:22	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			12/27/24 19:22	1
Vinyl chloride	ND		1.0	0.32	ug/L			12/27/24 19:22	1
Xylenes, Total	ND		1.5	0.37	ug/L			12/27/24 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*		*12/27/24 19:22*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*12/27/24 19:22*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*12/27/24 19:22*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*12/27/24 19:22*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*+ *1	0.0093	0.0075	ug/L		12/19/24 10:11	12/19/24 18:56	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17241-1

Client Sample ID: BW-8
Date Collected: 12/17/24 13:52
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-4
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10	2.7	ug/L			12/27/24 19:49	10
1,1,1-Trichloroethane	ND		10	1.5	ug/L			12/27/24 19:49	10
1,1,2,2-Tetrachloroethane	ND		20	4.1	ug/L			12/27/24 19:49	10
1,1,2-Trichloroethane	ND		10	2.0	ug/L			12/27/24 19:49	10
1,1-Dichloroethane	ND		10	3.0	ug/L			12/27/24 19:49	10
1,1-Dichloroethene	ND		10	2.0	ug/L			12/27/24 19:49	10
1,1-Dichloropropene	ND		10	1.8	ug/L			12/27/24 19:49	10
1,2,3-Trichlorobenzene	ND		10	2.5	ug/L			12/27/24 19:49	10
1,2,3-Trichloropropane	ND		20	1.8	ug/L			12/27/24 19:49	10
1,2,4-Trichlorobenzene	ND		10	4.0	ug/L			12/27/24 19:49	10
1,2,4-Trimethylbenzene	**31**		10	1.2	ug/L			12/27/24 19:49	10
1,2-Dibromo-3-Chloropropane	ND		20	7.4	ug/L			12/27/24 19:49	10
1,2-Dibromoethane (EDB)	ND		10	3.0	ug/L			12/27/24 19:49	10
1,2-Dichlorobenzene	ND		10	1.5	ug/L			12/27/24 19:49	10
1,2-Dichloroethane (EDC)	**14**		10	3.0	ug/L			12/27/24 19:49	10
1,2-Dichloropropane	ND		10	2.0	ug/L			12/27/24 19:49	10
1,3,5-Trimethylbenzene	**7.1**	**J**	10	1.8	ug/L			12/27/24 19:49	10
1,3-Dichlorobenzene	ND		10	1.6	ug/L			12/27/24 19:49	10
1,3-Dichloropropane	ND		10	1.8	ug/L			12/27/24 19:49	10
1,4-Dichlorobenzene	ND		10	1.1	ug/L			12/27/24 19:49	10
1-Methylnaphthalene	ND		40	20	ug/L			12/27/24 19:49	10
2,2-Dichloropropane	ND		20	2.6	ug/L			12/27/24 19:49	10
2-Butanone	**86**	**J**	100	20	ug/L			12/27/24 19:49	10
2-Chlorotoluene	ND		10	1.4	ug/L			12/27/24 19:49	10
2-Hexanone	**100**		100	18	ug/L			12/27/24 19:49	10
2-Methylnaphthalene	ND		40	20	ug/L			12/27/24 19:49	10
4-Chlorotoluene	ND		10	1.3	ug/L			12/27/24 19:49	10
4-Isopropyltoluene	ND		10	2.0	ug/L			12/27/24 19:49	10
4-Methyl-2-pentanone	**29**	**J**	100	15	ug/L			12/27/24 19:49	10
Acetone	ND		100	25	ug/L			12/27/24 19:49	10
Benzene	**230**		10	2.3	ug/L			12/27/24 19:49	10
Bromobenzene	ND		10	2.8	ug/L			12/27/24 19:49	10
Bromodichloromethane	ND		10	2.0	ug/L			12/27/24 19:49	10
Dibromochloromethane	ND		10	2.8	ug/L			12/27/24 19:49	10
Bromoform	ND		10	3.1	ug/L			12/27/24 19:49	10
Bromomethane	ND		30	10	ug/L			12/27/24 19:49	10
Carbon disulfide	ND		100	10	ug/L			12/27/24 19:49	10
Carbon tetrachloride	ND		10	1.8	ug/L			12/27/24 19:49	10
Chlorobenzene	ND		10	4.6	ug/L			12/27/24 19:49	10
Chloroethane	ND		20	3.8	ug/L			12/27/24 19:49	10
Chloroform	ND		10	2.5	ug/L			12/27/24 19:49	10
Chloromethane	ND		30	4.1	ug/L			12/27/24 19:49	10
cis-1,2-Dichloroethene	ND		10	3.9	ug/L			12/27/24 19:49	10
cis-1,3-Dichloropropene	ND		10	1.3	ug/L			12/27/24 19:49	10
Dibromomethane	ND		10	3.1	ug/L			12/27/24 19:49	10
Dichlorodifluoromethane	ND		10	7.3	ug/L			12/27/24 19:49	10
Ethylbenzene	**53**		10	2.1	ug/L			12/27/24 19:49	10
Hexachlorobutadiene	ND		10	4.2	ug/L			12/27/24 19:49	10
Isopropylbenzene	**2.6**	**J**	10	1.8	ug/L			12/27/24 19:49	10

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17241-1
Project/Site: Former Y

Client Sample ID: BW-8 **Lab Sample ID: 885-17241-4**
Date Collected: 12/17/24 13:52 **Matrix: Water**
Date Received: 12/18/24 13:31

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		10	3.9	ug/L			12/27/24 19:49	10
Methylene Chloride	ND		25	12	ug/L			12/27/24 19:49	10
n-Butylbenzene	ND		30	1.3	ug/L			12/27/24 19:49	10
N-Propylbenzene	**4.4**	**J**	10	1.1	ug/L			12/27/24 19:49	10
Naphthalene	**17**	**J**	20	2.4	ug/L			12/27/24 19:49	10
sec-Butylbenzene	ND		10	1.4	ug/L			12/27/24 19:49	10
Styrene	ND		10	1.7	ug/L			12/27/24 19:49	10
tert-Butylbenzene	ND		10	2.4	ug/L			12/27/24 19:49	10
Tetrachloroethene (PCE)	ND		10	1.8	ug/L			12/27/24 19:49	10
Toluene	**310**		10	2.5	ug/L			12/27/24 19:49	10
trans-1,2-Dichloroethene	ND		10	1.9	ug/L			12/27/24 19:49	10
trans-1,3-Dichloropropene	ND		10	3.4	ug/L			12/27/24 19:49	10
Trichloroethene (TCE)	ND		10	2.0	ug/L			12/27/24 19:49	10
Trichlorofluoromethane	ND		10	1.6	ug/L			12/27/24 19:49	10
Vinyl chloride	ND		10	3.2	ug/L			12/27/24 19:49	10
Xylenes, Total	**270**		15	3.7	ug/L			12/27/24 19:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*		*12/27/24 19:49*	*10*
Toluene-d8 (Surr)	*112*		*70 - 130*		*12/27/24 19:49*	*10*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*12/27/24 19:49*	*10*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*12/27/24 19:49*	*10*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.29**		0.19	0.15	ug/L		12/20/24 12:13	01/02/25 20:13	20

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17241-1

Client Sample ID: BW-5
Date Collected: 12/17/24 15:26
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-5
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.53	ug/L			12/30/24 11:22	2
1,1,1-Trichloroethane	ND		2.0	0.30	ug/L			12/30/24 11:22	2
1,1,2,2-Tetrachloroethane	ND		4.0	0.82	ug/L			12/30/24 11:22	2
1,1,2-Trichloroethane	ND		2.0	0.40	ug/L			12/30/24 11:22	2
1,1-Dichloroethane	ND		2.0	0.61	ug/L			12/30/24 11:22	2
1,1-Dichloroethene	ND		2.0	0.40	ug/L			12/30/24 11:22	2
1,1-Dichloropropene	ND		2.0	0.36	ug/L			12/30/24 11:22	2
1,2,3-Trichlorobenzene	ND		2.0	0.50	ug/L			12/30/24 11:22	2
1,2,3-Trichloropropane	ND		4.0	0.36	ug/L			12/30/24 11:22	2
1,2,4-Trichlorobenzene	ND		2.0	0.80	ug/L			12/30/24 11:22	2
1,2,4-Trimethylbenzene	**15**		2.0	0.24	ug/L			12/30/24 11:22	2
1,2-Dibromo-3-Chloropropane	ND		4.0	1.5	ug/L			12/30/24 11:22	2
1,2-Dibromoethane (EDB)	ND		2.0	0.61	ug/L			12/30/24 11:22	2
1,2-Dichlorobenzene	ND		2.0	0.31	ug/L			12/30/24 11:22	2
1,2-Dichloroethane (EDC)	**31**		2.0	0.60	ug/L			12/30/24 11:22	2
1,2-Dichloropropane	ND		2.0	0.40	ug/L			12/30/24 11:22	2
1,3,5-Trimethylbenzene	**6.5**		2.0	0.36	ug/L			12/30/24 11:22	2
1,3-Dichlorobenzene	ND		2.0	0.32	ug/L			12/30/24 11:22	2
1,3-Dichloropropane	ND		2.0	0.36	ug/L			12/30/24 11:22	2
1,4-Dichlorobenzene	ND		2.0	0.22	ug/L			12/30/24 11:22	2
1-Methylnaphthalene	ND		8.0	4.0	ug/L			12/30/24 11:22	2
2,2-Dichloropropane	ND		4.0	0.52	ug/L			12/30/24 11:22	2
2-Butanone	ND		20	4.1	ug/L			12/30/24 11:22	2
2-Chlorotoluene	ND		2.0	0.28	ug/L			12/30/24 11:22	2
2-Hexanone	ND		20	3.6	ug/L			12/30/24 11:22	2
2-Methylnaphthalene	ND		8.0	4.0	ug/L			12/30/24 11:22	2
4-Chlorotoluene	ND		2.0	0.27	ug/L			12/30/24 11:22	2
4-Isopropyltoluene	ND		2.0	0.40	ug/L			12/30/24 11:22	2
4-Methyl-2-pentanone	ND		20	3.0	ug/L			12/30/24 11:22	2
Acetone	ND		20	5.0	ug/L			12/30/24 11:22	2
Benzene	**28**		2.0	0.45	ug/L			12/30/24 11:22	2
Bromobenzene	ND		2.0	0.57	ug/L			12/30/24 11:22	2
Bromodichloromethane	ND		2.0	0.41	ug/L			12/30/24 11:22	2
Dibromochloromethane	ND		2.0	0.57	ug/L			12/30/24 11:22	2
Bromoform	ND		2.0	0.63	ug/L			12/30/24 11:22	2
Bromomethane	ND		6.0	2.0	ug/L			12/30/24 11:22	2
Carbon disulfide	ND		20	2.0	ug/L			12/30/24 11:22	2
Carbon tetrachloride	ND		2.0	0.36	ug/L			12/30/24 11:22	2
Chlorobenzene	ND		2.0	0.92	ug/L			12/30/24 11:22	2
Chloroethane	ND		4.0	0.75	ug/L			12/30/24 11:22	2
Chloroform	ND		2.0	0.50	ug/L			12/30/24 11:22	2
Chloromethane	ND		6.0	0.82	ug/L			12/30/24 11:22	2
cis-1,2-Dichloroethene	ND		2.0	0.78	ug/L			12/30/24 11:22	2
cis-1,3-Dichloropropene	ND		2.0	0.26	ug/L			12/30/24 11:22	2
Dibromomethane	ND		2.0	0.62	ug/L			12/30/24 11:22	2
Dichlorodifluoromethane	ND		2.0	1.5	ug/L			12/30/24 11:22	2
Ethylbenzene	**0.73**	**J**	2.0	0.43	ug/L			12/30/24 11:22	2
Hexachlorobutadiene	ND		2.0	0.83	ug/L			12/30/24 11:22	2
Isopropylbenzene	**0.81**	**J**	2.0	0.37	ug/L			12/30/24 11:22	2

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17241-1
Project/Site: Former Y

Client Sample ID: BW-5 **Lab Sample ID: 885-17241-5**
Date Collected: 12/17/24 15:26 **Matrix: Water**
Date Received: 12/18/24 13:31

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.0	0.79	ug/L			12/30/24 11:22	2
Methylene Chloride	ND		5.0	2.5	ug/L			12/30/24 11:22	2
n-Butylbenzene	**0.28**	**J**	6.0	0.25	ug/L			12/30/24 11:22	2
N-Propylbenzene	ND		2.0	0.22	ug/L			12/30/24 11:22	2
Naphthalene	**2.9**	**J**	4.0	0.48	ug/L			12/30/24 11:22	2
sec-Butylbenzene	ND		2.0	0.29	ug/L			12/30/24 11:22	2
Styrene	ND		2.0	0.34	ug/L			12/30/24 11:22	2
tert-Butylbenzene	ND		2.0	0.49	ug/L			12/30/24 11:22	2
Tetrachloroethene (PCE)	ND		2.0	0.36	ug/L			12/30/24 11:22	2
Toluene	**9.1**		2.0	0.50	ug/L			12/30/24 11:22	2
trans-1,2-Dichloroethene	ND		2.0	0.39	ug/L			12/30/24 11:22	2
trans-1,3-Dichloropropene	ND		2.0	0.68	ug/L			12/30/24 11:22	2
Trichloroethene (TCE)	ND		2.0	0.41	ug/L			12/30/24 11:22	2
Trichlorofluoromethane	ND		2.0	0.32	ug/L			12/30/24 11:22	2
Vinyl chloride	ND		2.0	0.64	ug/L			12/30/24 11:22	2
Xylenes, Total	**51**		3.0	0.75	ug/L			12/30/24 11:22	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*12/30/24 11:22*	*2*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/30/24 11:22*	*2*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*12/30/24 11:22*	*2*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*12/30/24 11:22*	*2*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.53**		0.48	0.38	ug/L		12/20/24 12:13	01/02/25 20:27	50

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17241-1

Client Sample ID: MW-12
Date Collected: 12/17/24 16:04
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-6
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.3	ug/L			12/30/24 12:17	5
1,1,1-Trichloroethane	ND		5.0	0.76	ug/L			12/30/24 12:17	5
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			12/30/24 12:17	5
1,1,2-Trichloroethane	ND		5.0	0.99	ug/L			12/30/24 12:17	5
1,1-Dichloroethane	ND		5.0	1.5	ug/L			12/30/24 12:17	5
1,1-Dichloroethene	ND		5.0	1.0	ug/L			12/30/24 12:17	5
1,1-Dichloropropene	ND		5.0	0.90	ug/L			12/30/24 12:17	5
1,2,3-Trichlorobenzene	ND		5.0	1.2	ug/L			12/30/24 12:17	5
1,2,3-Trichloropropane	ND		10	0.90	ug/L			12/30/24 12:17	5
1,2,4-Trichlorobenzene	ND		5.0	2.0	ug/L			12/30/24 12:17	5
1,2,4-Trimethylbenzene	ND		5.0	0.61	ug/L			12/30/24 12:17	5
1,2-Dibromo-3-Chloropropane	ND		10	3.7	ug/L			12/30/24 12:17	5
1,2-Dibromoethane (EDB)	ND		5.0	1.5	ug/L			12/30/24 12:17	5
1,2-Dichlorobenzene	ND		5.0	0.77	ug/L			12/30/24 12:17	5
1,2-Dichloroethane (EDC)	**66**		5.0	1.5	ug/L			12/30/24 12:17	5
1,2-Dichloropropane	ND		5.0	1.0	ug/L			12/30/24 12:17	5
1,3,5-Trimethylbenzene	**1.8**	**J**	5.0	0.91	ug/L			12/30/24 12:17	5
1,3-Dichlorobenzene	ND		5.0	0.81	ug/L			12/30/24 12:17	5
1,3-Dichloropropane	ND		5.0	0.90	ug/L			12/30/24 12:17	5
1,4-Dichlorobenzene	ND		5.0	0.55	ug/L			12/30/24 12:17	5
1-Methylnaphthalene	ND		20	10	ug/L			12/30/24 12:17	5
2,2-Dichloropropane	ND		10	1.3	ug/L			12/30/24 12:17	5
2-Butanone	ND		50	10	ug/L			12/30/24 12:17	5
2-Chlorotoluene	ND		5.0	0.70	ug/L			12/30/24 12:17	5
2-Hexanone	ND		50	9.0	ug/L			12/30/24 12:17	5
2-Methylnaphthalene	ND		20	10	ug/L			12/30/24 12:17	5
4-Chlorotoluene	ND		5.0	0.67	ug/L			12/30/24 12:17	5
4-Isopropyltoluene	ND		5.0	1.0	ug/L			12/30/24 12:17	5
4-Methyl-2-pentanone	ND		50	7.5	ug/L			12/30/24 12:17	5
Acetone	ND		50	13	ug/L			12/30/24 12:17	5
Benzene	ND		5.0	1.1	ug/L			12/30/24 12:17	5
Bromobenzene	ND		5.0	1.4	ug/L			12/30/24 12:17	5
Bromodichloromethane	ND		5.0	1.0	ug/L			12/30/24 12:17	5
Dibromochloromethane	ND		5.0	1.4	ug/L			12/30/24 12:17	5
Bromoform	ND		5.0	1.6	ug/L			12/30/24 12:17	5
Bromomethane	ND		15	5.0	ug/L			12/30/24 12:17	5
Carbon disulfide	ND		50	5.0	ug/L			12/30/24 12:17	5
Carbon tetrachloride	ND		5.0	0.90	ug/L			12/30/24 12:17	5
Chlorobenzene	ND		5.0	2.3	ug/L			12/30/24 12:17	5
Chloroethane	ND		10	1.9	ug/L			12/30/24 12:17	5
Chloroform	ND		5.0	1.3	ug/L			12/30/24 12:17	5
Chloromethane	ND		15	2.1	ug/L			12/30/24 12:17	5
cis-1,2-Dichloroethene	ND		5.0	1.9	ug/L			12/30/24 12:17	5
cis-1,3-Dichloropropene	ND		5.0	0.65	ug/L			12/30/24 12:17	5
Dibromomethane	ND		5.0	1.5	ug/L			12/30/24 12:17	5
Dichlorodifluoromethane	ND		5.0	3.7	ug/L			12/30/24 12:17	5
Ethylbenzene	ND		5.0	1.1	ug/L			12/30/24 12:17	5
Hexachlorobutadiene	ND		5.0	2.1	ug/L			12/30/24 12:17	5
Isopropylbenzene	ND		5.0	0.91	ug/L			12/30/24 12:17	5

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17241-1
Project/Site: Former Y

Client Sample ID: MW-12 **Lab Sample ID: 885-17241-6**
Date Collected: 12/17/24 16:04 **Matrix: Water**
Date Received: 12/18/24 13:31

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		5.0	2.0	ug/L			12/30/24 12:17	5
Methylene Chloride	ND		13	6.2	ug/L			12/30/24 12:17	5
n-Butylbenzene	ND		15	0.63	ug/L			12/30/24 12:17	5
N-Propylbenzene	ND		5.0	0.55	ug/L			12/30/24 12:17	5
Naphthalene	ND		10	1.2	ug/L			12/30/24 12:17	5
sec-Butylbenzene	ND		5.0	0.72	ug/L			12/30/24 12:17	5
Styrene	ND		5.0	0.85	ug/L			12/30/24 12:17	5
tert-Butylbenzene	ND		5.0	1.2	ug/L			12/30/24 12:17	5
Tetrachloroethene (PCE)	ND		5.0	0.89	ug/L			12/30/24 12:17	5
Toluene	ND		5.0	1.3	ug/L			12/30/24 12:17	5
trans-1,2-Dichloroethene	ND		5.0	0.97	ug/L			12/30/24 12:17	5
trans-1,3-Dichloropropene	ND		5.0	1.7	ug/L			12/30/24 12:17	5
Trichloroethene (TCE)	ND		5.0	1.0	ug/L			12/30/24 12:17	5
Trichlorofluoromethane	ND		5.0	0.79	ug/L			12/30/24 12:17	5
Vinyl chloride	ND		5.0	1.6	ug/L			12/30/24 12:17	5
Xylenes, Total	**2.2**	**J**	7.5	1.9	ug/L			12/30/24 12:17	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*12/30/24 12:17*	*5*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/30/24 12:17*	*5*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*12/30/24 12:17*	*5*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*12/30/24 12:17*	*5*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**0.49**		0.47	0.37	ug/L		12/20/24 12:13	01/02/25 20:42	50

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17241-1

Client Sample ID: MW-13
Date Collected: 12/17/24 10:09
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-7
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.53	ug/L			12/30/24 12:44	2
1,1,1-Trichloroethane	ND		2.0	0.30	ug/L			12/30/24 12:44	2
1,1,2,2-Tetrachloroethane	ND		4.0	0.82	ug/L			12/30/24 12:44	2
1,1,2-Trichloroethane	ND		2.0	0.40	ug/L			12/30/24 12:44	2
1,1-Dichloroethane	ND		2.0	0.61	ug/L			12/30/24 12:44	2
1,1-Dichloroethene	ND		2.0	0.40	ug/L			12/30/24 12:44	2
1,1-Dichloropropene	ND		2.0	0.36	ug/L			12/30/24 12:44	2
1,2,3-Trichlorobenzene	ND		2.0	0.50	ug/L			12/30/24 12:44	2
1,2,3-Trichloropropane	ND		4.0	0.36	ug/L			12/30/24 12:44	2
1,2,4-Trichlorobenzene	ND		2.0	0.80	ug/L			12/30/24 12:44	2
1,2,4-Trimethylbenzene	**1.5**	**J**	2.0	0.24	ug/L			12/30/24 12:44	2
1,2-Dibromo-3-Chloropropane	ND		4.0	1.5	ug/L			12/30/24 12:44	2
1,2-Dibromoethane (EDB)	ND		2.0	0.61	ug/L			12/30/24 12:44	2
1,2-Dichlorobenzene	ND		2.0	0.31	ug/L			12/30/24 12:44	2
1,2-Dichloroethane (EDC)	**76**		2.0	0.60	ug/L			12/30/24 12:44	2
1,2-Dichloropropane	ND		2.0	0.40	ug/L			12/30/24 12:44	2
1,3,5-Trimethylbenzene	**5.7**		2.0	0.36	ug/L			12/30/24 12:44	2
1,3-Dichlorobenzene	ND		2.0	0.32	ug/L			12/30/24 12:44	2
1,3-Dichloropropane	ND		2.0	0.36	ug/L			12/30/24 12:44	2
1,4-Dichlorobenzene	ND		2.0	0.22	ug/L			12/30/24 12:44	2
1-Methylnaphthalene	ND		8.0	4.0	ug/L			12/30/24 12:44	2
2,2-Dichloropropane	ND		4.0	0.52	ug/L			12/30/24 12:44	2
2-Butanone	ND		20	4.1	ug/L			12/30/24 12:44	2
2-Chlorotoluene	ND		2.0	0.28	ug/L			12/30/24 12:44	2
2-Hexanone	ND		20	3.6	ug/L			12/30/24 12:44	2
2-Methylnaphthalene	ND		8.0	4.0	ug/L			12/30/24 12:44	2
4-Chlorotoluene	ND		2.0	0.27	ug/L			12/30/24 12:44	2
4-Isopropyltoluene	ND		2.0	0.40	ug/L			12/30/24 12:44	2
4-Methyl-2-pentanone	ND		20	3.0	ug/L			12/30/24 12:44	2
Acetone	ND		20	5.0	ug/L			12/30/24 12:44	2
Benzene	ND		2.0	0.45	ug/L			12/30/24 12:44	2
Bromobenzene	ND		2.0	0.57	ug/L			12/30/24 12:44	2
Bromodichloromethane	ND		2.0	0.41	ug/L			12/30/24 12:44	2
Dibromochloromethane	ND		2.0	0.57	ug/L			12/30/24 12:44	2
Bromoform	ND		2.0	0.63	ug/L			12/30/24 12:44	2
Bromomethane	ND		6.0	2.0	ug/L			12/30/24 12:44	2
Carbon disulfide	ND		20	2.0	ug/L			12/30/24 12:44	2
Carbon tetrachloride	ND		2.0	0.36	ug/L			12/30/24 12:44	2
Chlorobenzene	ND		2.0	0.92	ug/L			12/30/24 12:44	2
Chloroethane	ND		4.0	0.75	ug/L			12/30/24 12:44	2
Chloroform	ND		2.0	0.50	ug/L			12/30/24 12:44	2
Chloromethane	ND		6.0	0.82	ug/L			12/30/24 12:44	2
cis-1,2-Dichloroethene	ND		2.0	0.78	ug/L			12/30/24 12:44	2
cis-1,3-Dichloropropene	ND		2.0	0.26	ug/L			12/30/24 12:44	2
Dibromomethane	ND		2.0	0.62	ug/L			12/30/24 12:44	2
Dichlorodifluoromethane	ND		2.0	1.5	ug/L			12/30/24 12:44	2
Ethylbenzene	ND		2.0	0.43	ug/L			12/30/24 12:44	2
Hexachlorobutadiene	ND		2.0	0.83	ug/L			12/30/24 12:44	2
Isopropylbenzene	ND		2.0	0.37	ug/L			12/30/24 12:44	2

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17241-1

Client Sample ID: MW-13
Date Collected: 12/17/24 10:09
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-7
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.0	0.79	ug/L			12/30/24 12:44	2
Methylene Chloride	ND		5.0	2.5	ug/L			12/30/24 12:44	2
n-Butylbenzene	ND		6.0	0.25	ug/L			12/30/24 12:44	2
N-Propylbenzene	ND		2.0	0.22	ug/L			12/30/24 12:44	2
Naphthalene	**2.1**	**J**	4.0	0.48	ug/L			12/30/24 12:44	2
sec-Butylbenzene	ND		2.0	0.29	ug/L			12/30/24 12:44	2
Styrene	ND		2.0	0.34	ug/L			12/30/24 12:44	2
tert-Butylbenzene	ND		2.0	0.49	ug/L			12/30/24 12:44	2
Tetrachloroethene (PCE)	ND		2.0	0.36	ug/L			12/30/24 12:44	2
Toluene	ND		2.0	0.50	ug/L			12/30/24 12:44	2
trans-1,2-Dichloroethene	ND		2.0	0.39	ug/L			12/30/24 12:44	2
trans-1,3-Dichloropropene	ND		2.0	0.68	ug/L			12/30/24 12:44	2
Trichloroethene (TCE)	ND		2.0	0.41	ug/L			12/30/24 12:44	2
Trichlorofluoromethane	ND		2.0	0.32	ug/L			12/30/24 12:44	2
Vinyl chloride	ND		2.0	0.64	ug/L			12/30/24 12:44	2
Xylenes, Total	**4.8**		3.0	0.75	ug/L			12/30/24 12:44	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*12/30/24 12:44*	*2*
Toluene-d8 (Surr)	*102*		*70 - 130*		*12/30/24 12:44*	*2*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*12/30/24 12:44*	*2*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*12/30/24 12:44*	*2*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*+	0.0095	0.0076	ug/L		12/23/24 11:29	12/23/24 22:15	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-17241-1
Project/Site: Former Y

Client Sample ID: BW-7R
Lab Sample ID: 885-17241-8
Date Collected: 12/16/24 17:27
Matrix: Water
Date Received: 12/18/24 13:31

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.53	ug/L			12/28/24 00:21	2
1,1,1-Trichloroethane	ND		2.0	0.30	ug/L			12/28/24 00:21	2
1,1,2,2-Tetrachloroethane	ND		4.0	0.82	ug/L			12/28/24 00:21	2
1,1,2-Trichloroethane	ND		2.0	0.40	ug/L			12/28/24 00:21	2
1,1-Dichloroethane	ND		2.0	0.61	ug/L			12/28/24 00:21	2
1,1-Dichloroethene	ND		2.0	0.40	ug/L			12/28/24 00:21	2
1,1-Dichloropropene	ND		2.0	0.36	ug/L			12/28/24 00:21	2
1,2,3-Trichlorobenzene	ND		2.0	0.50	ug/L			12/28/24 00:21	2
1,2,3-Trichloropropane	ND		4.0	0.36	ug/L			12/28/24 00:21	2
1,2,4-Trichlorobenzene	ND		2.0	0.80	ug/L			12/28/24 00:21	2
1,2,4-Trimethylbenzene	ND		2.0	0.24	ug/L			12/28/24 00:21	2
1,2-Dibromo-3-Chloropropane	ND		4.0	1.5	ug/L			12/28/24 00:21	2
1,2-Dibromoethane (EDB)	ND		2.0	0.61	ug/L			12/28/24 00:21	2
1,2-Dichlorobenzene	ND		2.0	0.31	ug/L			12/28/24 00:21	2
1,2-Dichloroethane (EDC)	**37**		2.0	0.60	ug/L			12/28/24 00:21	2
1,2-Dichloropropane	ND		2.0	0.40	ug/L			12/28/24 00:21	2
1,3,5-Trimethylbenzene	ND		2.0	0.36	ug/L			12/28/24 00:21	2
1,3-Dichlorobenzene	ND		2.0	0.32	ug/L			12/28/24 00:21	2
1,3-Dichloropropane	ND		2.0	0.36	ug/L			12/28/24 00:21	2
1,4-Dichlorobenzene	ND		2.0	0.22	ug/L			12/28/24 00:21	2
1-Methylnaphthalene	ND		8.0	4.0	ug/L			12/28/24 00:21	2
2,2-Dichloropropane	ND		4.0	0.52	ug/L			12/28/24 00:21	2
2-Butanone	ND		20	4.1	ug/L			12/28/24 00:21	2
2-Chlorotoluene	ND		2.0	0.28	ug/L			12/28/24 00:21	2
2-Hexanone	ND		20	3.6	ug/L			12/28/24 00:21	2
2-Methylnaphthalene	ND		8.0	4.0	ug/L			12/28/24 00:21	2
4-Chlorotoluene	ND		2.0	0.27	ug/L			12/28/24 00:21	2
4-Isopropyltoluene	ND		2.0	0.40	ug/L			12/28/24 00:21	2
4-Methyl-2-pentanone	ND		20	3.0	ug/L			12/28/24 00:21	2
Acetone	ND		20	5.0	ug/L			12/28/24 00:21	2
Benzene	ND		2.0	0.45	ug/L			12/28/24 00:21	2
Bromobenzene	ND		2.0	0.57	ug/L			12/28/24 00:21	2
Bromodichloromethane	ND		2.0	0.41	ug/L			12/28/24 00:21	2
Dibromochloromethane	ND		2.0	0.57	ug/L			12/28/24 00:21	2
Bromoform	ND		2.0	0.63	ug/L			12/28/24 00:21	2
Bromomethane	ND		6.0	2.0	ug/L			12/28/24 00:21	2
Carbon disulfide	ND		20	2.0	ug/L			12/28/24 00:21	2
Carbon tetrachloride	ND		2.0	0.36	ug/L			12/28/24 00:21	2
Chlorobenzene	ND		2.0	0.92	ug/L			12/28/24 00:21	2
Chloroethane	ND		4.0	0.75	ug/L			12/28/24 00:21	2
Chloroform	ND		2.0	0.50	ug/L			12/28/24 00:21	2
Chloromethane	ND		6.0	0.82	ug/L			12/28/24 00:21	2
cis-1,2-Dichloroethene	ND		2.0	0.78	ug/L			12/28/24 00:21	2
cis-1,3-Dichloropropene	ND		2.0	0.26	ug/L			12/28/24 00:21	2
Dibromomethane	ND		2.0	0.62	ug/L			12/28/24 00:21	2
Dichlorodifluoromethane	ND		2.0	1.5	ug/L			12/28/24 00:21	2
Ethylbenzene	ND		2.0	0.43	ug/L			12/28/24 00:21	2
Hexachlorobutadiene	ND		2.0	0.83	ug/L			12/28/24 00:21	2
Isopropylbenzene	ND		2.0	0.37	ug/L			12/28/24 00:21	2

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17241-1
Project/Site: Former Y

Client Sample ID: BW-7R **Lab Sample ID: 885-17241-8**
Date Collected: 12/16/24 17:27 **Matrix: Water**
Date Received: 12/18/24 13:31

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.0	0.79	ug/L			12/28/24 00:21	2
Methylene Chloride	ND		5.0	2.5	ug/L			12/28/24 00:21	2
n-Butylbenzene	ND		6.0	0.25	ug/L			12/28/24 00:21	2
N-Propylbenzene	ND		2.0	0.22	ug/L			12/28/24 00:21	2
Naphthalene	ND		4.0	0.48	ug/L			12/28/24 00:21	2
sec-Butylbenzene	ND		2.0	0.29	ug/L			12/28/24 00:21	2
Styrene	ND		2.0	0.34	ug/L			12/28/24 00:21	2
tert-Butylbenzene	ND		2.0	0.49	ug/L			12/28/24 00:21	2
Tetrachloroethene (PCE)	ND		2.0	0.36	ug/L			12/28/24 00:21	2
Toluene	ND		2.0	0.50	ug/L			12/28/24 00:21	2
trans-1,2-Dichloroethene	ND		2.0	0.39	ug/L			12/28/24 00:21	2
trans-1,3-Dichloropropene	ND		2.0	0.68	ug/L			12/28/24 00:21	2
Trichloroethene (TCE)	ND		2.0	0.41	ug/L			12/28/24 00:21	2
Trichlorofluoromethane	ND		2.0	0.32	ug/L			12/28/24 00:21	2
Vinyl chloride	ND		2.0	0.64	ug/L			12/28/24 00:21	2
Xylenes, Total	ND		3.0	0.75	ug/L			12/28/24 00:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*12/28/24 00:21*	*2*
Toluene-d8 (Surr)	*114*		*70 - 130*		*12/28/24 00:21*	*2*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*12/28/24 00:21*	*2*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*12/28/24 00:21*	*2*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*+	0.0095	0.0076	ug/L		12/23/24 11:29	12/23/24 22:01	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17241-1

Client Sample ID: RW-4
Date Collected: 12/17/24 17:40
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-9
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20	5.3	ug/L			12/28/24 01:42	20
1,1,1-Trichloroethane	ND		20	3.0	ug/L			12/28/24 01:42	20
1,1,2,2-Tetrachloroethane	ND		40	8.2	ug/L			12/28/24 01:42	20
1,1,2-Trichloroethane	ND		20	4.0	ug/L			12/28/24 01:42	20
1,1-Dichloroethane	ND		20	6.1	ug/L			12/28/24 01:42	20
1,1-Dichloroethene	ND		20	4.0	ug/L			12/28/24 01:42	20
1,1-Dichloropropene	ND		20	3.6	ug/L			12/28/24 01:42	20
1,2,3-Trichlorobenzene	ND		20	5.0	ug/L			12/28/24 01:42	20
1,2,3-Trichloropropane	ND		40	3.6	ug/L			12/28/24 01:42	20
1,2,4-Trichlorobenzene	ND		20	8.0	ug/L			12/28/24 01:42	20
1,2,4-Trimethylbenzene	**99**		20	2.4	ug/L			12/28/24 01:42	20
1,2-Dibromo-3-Chloropropane	ND		40	15	ug/L			12/28/24 01:42	20
1,2-Dibromoethane (EDB)	**38**		20	6.1	ug/L			12/28/24 01:42	20
1,2-Dichlorobenzene	ND		20	3.1	ug/L			12/28/24 01:42	20
1,2-Dichloroethane (EDC)	**130**		20	6.0	ug/L			12/28/24 01:42	20
1,2-Dichloropropane	ND		20	4.0	ug/L			12/28/24 01:42	20
1,3,5-Trimethylbenzene	**40**		20	3.6	ug/L			12/28/24 01:42	20
1,3-Dichlorobenzene	ND		20	3.2	ug/L			12/28/24 01:42	20
1,3-Dichloropropane	ND		20	3.6	ug/L			12/28/24 01:42	20
1,4-Dichlorobenzene	ND		20	2.2	ug/L			12/28/24 01:42	20
1-Methylnaphthalene	ND		80	40	ug/L			12/28/24 01:42	20
2,2-Dichloropropane	ND		40	5.2	ug/L			12/28/24 01:42	20
2-Butanone	ND		200	41	ug/L			12/28/24 01:42	20
2-Chlorotoluene	ND		20	2.8	ug/L			12/28/24 01:42	20
2-Hexanone	**160**	**J**	200	36	ug/L			12/28/24 01:42	20
2-Methylnaphthalene	ND		80	40	ug/L			12/28/24 01:42	20
4-Chlorotoluene	ND		20	2.7	ug/L			12/28/24 01:42	20
4-Isopropyltoluene	ND		20	4.0	ug/L			12/28/24 01:42	20
4-Methyl-2-pentanone	**44**	**J**	200	30	ug/L			12/28/24 01:42	20
Acetone	ND		200	50	ug/L			12/28/24 01:42	20
Benzene	**540**		20	4.5	ug/L			12/28/24 01:42	20
Bromobenzene	ND		20	5.7	ug/L			12/28/24 01:42	20
Bromodichloromethane	ND		20	4.1	ug/L			12/28/24 01:42	20
Dibromochloromethane	ND		20	5.7	ug/L			12/28/24 01:42	20
Bromoform	ND		20	6.3	ug/L			12/28/24 01:42	20
Bromomethane	ND		60	20	ug/L			12/28/24 01:42	20
Carbon disulfide	ND		200	20	ug/L			12/28/24 01:42	20
Carbon tetrachloride	ND		20	3.6	ug/L			12/28/24 01:42	20
Chlorobenzene	ND		20	9.2	ug/L			12/28/24 01:42	20
Chloroethane	ND		40	7.5	ug/L			12/28/24 01:42	20
Chloroform	ND		20	5.0	ug/L			12/28/24 01:42	20
Chloromethane	ND		60	8.2	ug/L			12/28/24 01:42	20
cis-1,2-Dichloroethene	ND		20	7.8	ug/L			12/28/24 01:42	20
cis-1,3-Dichloropropene	ND		20	2.6	ug/L			12/28/24 01:42	20
Dibromomethane	ND		20	6.2	ug/L			12/28/24 01:42	20
Dichlorodifluoromethane	ND		20	15	ug/L			12/28/24 01:42	20
Ethylbenzene	**45**		20	4.3	ug/L			12/28/24 01:42	20
Hexachlorobutadiene	ND		20	8.3	ug/L			12/28/24 01:42	20
Isopropylbenzene	**5.1**	**J**	20	3.7	ug/L			12/28/24 01:42	20

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17241-1

Client Sample ID: RW-4
Date Collected: 12/17/24 17:40
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-9
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		20	7.9	ug/L			12/28/24 01:42	20
Methylene Chloride	ND		50	25	ug/L			12/28/24 01:42	20
n-Butylbenzene	ND		60	2.5	ug/L			12/28/24 01:42	20
N-Propylbenzene	ND		20	2.2	ug/L			12/28/24 01:42	20
Naphthalene	**21**	**J**	40	4.8	ug/L			12/28/24 01:42	20
sec-Butylbenzene	ND		20	2.9	ug/L			12/28/24 01:42	20
Styrene	ND		20	3.4	ug/L			12/28/24 01:42	20
tert-Butylbenzene	ND		20	4.9	ug/L			12/28/24 01:42	20
Tetrachloroethene (PCE)	ND		20	3.6	ug/L			12/28/24 01:42	20
Toluene	**1000**		20	5.0	ug/L			12/28/24 01:42	20
trans-1,2-Dichloroethene	ND		20	3.9	ug/L			12/28/24 01:42	20
trans-1,3-Dichloropropene	ND		20	6.8	ug/L			12/28/24 01:42	20
Trichloroethene (TCE)	ND		20	4.1	ug/L			12/28/24 01:42	20
Trichlorofluoromethane	ND		20	3.2	ug/L			12/28/24 01:42	20
Vinyl chloride	ND		20	6.4	ug/L			12/28/24 01:42	20
Xylenes, Total	**930**		30	7.5	ug/L			12/28/24 01:42	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*12/28/24 01:42*	*20*
Toluene-d8 (Surr)	*114*		*70 - 130*		*12/28/24 01:42*	*20*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/28/24 01:42*	*20*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*12/28/24 01:42*	*20*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*+	0.0094	0.0075	ug/L		12/23/24 11:29	12/23/24 22:30	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17241-1

Client Sample ID: MW-11
Date Collected: 12/16/24 15:10
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-10
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10	2.7	ug/L			12/28/24 02:09	10
1,1,1-Trichloroethane	ND		10	1.5	ug/L			12/28/24 02:09	10
1,1,2,2-Tetrachloroethane	ND		20	4.1	ug/L			12/28/24 02:09	10
1,1,2-Trichloroethane	ND		10	2.0	ug/L			12/28/24 02:09	10
1,1-Dichloroethane	ND		10	3.0	ug/L			12/28/24 02:09	10
1,1-Dichloroethene	ND		10	2.0	ug/L			12/28/24 02:09	10
1,1-Dichloropropene	ND		10	1.8	ug/L			12/28/24 02:09	10
1,2,3-Trichlorobenzene	ND		10	2.5	ug/L			12/28/24 02:09	10
1,2,3-Trichloropropane	ND		20	1.8	ug/L			12/28/24 02:09	10
1,2,4-Trichlorobenzene	ND		10	4.0	ug/L			12/28/24 02:09	10
1,2,4-Trimethylbenzene	**210**		10	1.2	ug/L			12/28/24 02:09	10
1,2-Dibromo-3-Chloropropane	ND		20	7.4	ug/L			12/28/24 02:09	10
1,2-Dibromoethane (EDB)	ND		10	3.0	ug/L			12/28/24 02:09	10
1,2-Dichlorobenzene	ND		10	1.5	ug/L			12/28/24 02:09	10
1,2-Dichloroethane (EDC)	**85**		10	3.0	ug/L			12/28/24 02:09	10
1,2-Dichloropropane	ND		10	2.0	ug/L			12/28/24 02:09	10
1,3,5-Trimethylbenzene	**52**		10	1.8	ug/L			12/28/24 02:09	10
1,3-Dichlorobenzene	ND		10	1.6	ug/L			12/28/24 02:09	10
1,3-Dichloropropane	ND		10	1.8	ug/L			12/28/24 02:09	10
1,4-Dichlorobenzene	ND		10	1.1	ug/L			12/28/24 02:09	10
1-Methylnaphthalene	ND		40	20	ug/L			12/28/24 02:09	10
2,2-Dichloropropane	ND		20	2.6	ug/L			12/28/24 02:09	10
2-Butanone	**250**		100	20	ug/L			12/28/24 02:09	10
2-Chlorotoluene	ND		10	1.4	ug/L			12/28/24 02:09	10
2-Hexanone	**88**	**J**	100	18	ug/L			12/28/24 02:09	10
2-Methylnaphthalene	ND		40	20	ug/L			12/28/24 02:09	10
4-Chlorotoluene	ND		10	1.3	ug/L			12/28/24 02:09	10
4-Isopropyltoluene	ND		10	2.0	ug/L			12/28/24 02:09	10
4-Methyl-2-pentanone	**100**		100	15	ug/L			12/28/24 02:09	10
Acetone	ND		100	25	ug/L			12/28/24 02:09	10
Benzene	**3600**		100	23	ug/L			12/30/24 11:49	100
Bromobenzene	ND		10	2.8	ug/L			12/28/24 02:09	10
Bromodichloromethane	ND		10	2.0	ug/L			12/28/24 02:09	10
Dibromochloromethane	ND		10	2.8	ug/L			12/28/24 02:09	10
Bromoform	ND		10	3.1	ug/L			12/28/24 02:09	10
Bromomethane	ND		30	10	ug/L			12/28/24 02:09	10
Carbon disulfide	ND		100	10	ug/L			12/28/24 02:09	10
Carbon tetrachloride	ND		10	1.8	ug/L			12/28/24 02:09	10
Chlorobenzene	ND		10	4.6	ug/L			12/28/24 02:09	10
Chloroethane	ND		20	3.8	ug/L			12/28/24 02:09	10
Chloroform	ND		10	2.5	ug/L			12/28/24 02:09	10
Chloromethane	ND		30	4.1	ug/L			12/28/24 02:09	10
cis-1,2-Dichloroethene	ND		10	3.9	ug/L			12/28/24 02:09	10
cis-1,3-Dichloropropene	ND		10	1.3	ug/L			12/28/24 02:09	10
Dibromomethane	ND		10	3.1	ug/L			12/28/24 02:09	10
Dichlorodifluoromethane	ND		10	7.3	ug/L			12/28/24 02:09	10
Ethylbenzene	**250**		10	2.1	ug/L			12/28/24 02:09	10
Hexachlorobutadiene	ND		10	4.2	ug/L			12/28/24 02:09	10
Isopropylbenzene	**15**		10	1.8	ug/L			12/28/24 02:09	10

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17241-1

Client Sample ID: MW-11
Date Collected: 12/16/24 15:10
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-10
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		10	3.9	ug/L			12/28/24 02:09	10
Methylene Chloride	ND		25	12	ug/L			12/28/24 02:09	10
n-Butylbenzene	**5.0**	**J**	30	1.3	ug/L			12/28/24 02:09	10
N-Propylbenzene	**25**		10	1.1	ug/L			12/28/24 02:09	10
Naphthalene	**48**		20	2.4	ug/L			12/28/24 02:09	10
sec-Butylbenzene	ND		10	1.4	ug/L			12/28/24 02:09	10
Styrene	ND		10	1.7	ug/L			12/28/24 02:09	10
tert-Butylbenzene	ND		10	2.4	ug/L			12/28/24 02:09	10
Tetrachloroethene (PCE)	ND		10	1.8	ug/L			12/28/24 02:09	10
Toluene	**91**		10	2.5	ug/L			12/28/24 02:09	10
trans-1,2-Dichloroethene	ND		10	1.9	ug/L			12/28/24 02:09	10
trans-1,3-Dichloropropene	ND		10	3.4	ug/L			12/28/24 02:09	10
Trichloroethene (TCE)	ND		10	2.0	ug/L			12/28/24 02:09	10
Trichlorofluoromethane	ND		10	1.6	ug/L			12/28/24 02:09	10
Vinyl chloride	ND		10	3.2	ug/L			12/28/24 02:09	10
Xylenes, Total	**520**		15	3.7	ug/L			12/28/24 02:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*		*12/28/24 02:09*	*10*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*12/30/24 11:49*	*100*
Toluene-d8 (Surr)	*115*		*70 - 130*		*12/28/24 02:09*	*10*
Toluene-d8 (Surr)	*112*		*70 - 130*		*12/30/24 11:49*	*100*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/28/24 02:09*	*10*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*12/30/24 11:49*	*100*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*12/28/24 02:09*	*10*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*12/30/24 11:49*	*100*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*+	0.0095	0.0076	ug/L		12/23/24 11:29	12/23/24 22:44	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17241-1

Client Sample ID: MW-16
Date Collected: 12/16/24 17:43
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-11
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10	2.7	ug/L			12/28/24 02:36	10
1,1,1-Trichloroethane	ND		10	1.5	ug/L			12/28/24 02:36	10
1,1,2,2-Tetrachloroethane	ND		20	4.1	ug/L			12/28/24 02:36	10
1,1,2-Trichloroethane	ND		10	2.0	ug/L			12/28/24 02:36	10
1,1-Dichloroethane	ND		10	3.0	ug/L			12/28/24 02:36	10
1,1-Dichloroethene	ND		10	2.0	ug/L			12/28/24 02:36	10
1,1-Dichloropropene	ND		10	1.8	ug/L			12/28/24 02:36	10
1,2,3-Trichlorobenzene	ND		10	2.5	ug/L			12/28/24 02:36	10
1,2,3-Trichloropropane	ND		20	1.8	ug/L			12/28/24 02:36	10
1,2,4-Trichlorobenzene	ND		10	4.0	ug/L			12/28/24 02:36	10
1,2,4-Trimethylbenzene	**2.4**	**J**	10	1.2	ug/L			12/28/24 02:36	10
1,2-Dibromo-3-Chloropropane	ND		20	7.4	ug/L			12/28/24 02:36	10
1,2-Dibromoethane (EDB)	ND		10	3.0	ug/L			12/28/24 02:36	10
1,2-Dichlorobenzene	ND		10	1.5	ug/L			12/28/24 02:36	10
1,2-Dichloroethane (EDC)	**49**		10	3.0	ug/L			12/28/24 02:36	10
1,2-Dichloropropane	ND		10	2.0	ug/L			12/28/24 02:36	10
1,3,5-Trimethylbenzene	**2.4**	**J**	10	1.8	ug/L			12/28/24 02:36	10
1,3-Dichlorobenzene	ND		10	1.6	ug/L			12/28/24 02:36	10
1,3-Dichloropropane	ND		10	1.8	ug/L			12/28/24 02:36	10
1,4-Dichlorobenzene	ND		10	1.1	ug/L			12/28/24 02:36	10
1-Methylnaphthalene	ND		40	20	ug/L			12/28/24 02:36	10
2,2-Dichloropropane	ND		20	2.6	ug/L			12/28/24 02:36	10
2-Butanone	ND		100	20	ug/L			12/28/24 02:36	10
2-Chlorotoluene	ND		10	1.4	ug/L			12/28/24 02:36	10
2-Hexanone	ND		100	18	ug/L			12/28/24 02:36	10
2-Methylnaphthalene	ND		40	20	ug/L			12/28/24 02:36	10
4-Chlorotoluene	ND		10	1.3	ug/L			12/28/24 02:36	10
4-Isopropyltoluene	ND		10	2.0	ug/L			12/28/24 02:36	10
4-Methyl-2-pentanone	ND		100	15	ug/L			12/28/24 02:36	10
Acetone	ND		100	25	ug/L			12/28/24 02:36	10
Benzene	**440**		10	2.3	ug/L			12/28/24 02:36	10
Bromobenzene	ND		10	2.8	ug/L			12/28/24 02:36	10
Bromodichloromethane	ND		10	2.0	ug/L			12/28/24 02:36	10
Dibromochloromethane	ND		10	2.8	ug/L			12/28/24 02:36	10
Bromoform	ND		10	3.1	ug/L			12/28/24 02:36	10
Bromomethane	ND		30	10	ug/L			12/28/24 02:36	10
Carbon disulfide	ND		100	10	ug/L			12/28/24 02:36	10
Carbon tetrachloride	ND		10	1.8	ug/L			12/28/24 02:36	10
Chlorobenzene	ND		10	4.6	ug/L			12/28/24 02:36	10
Chloroethane	ND		20	3.8	ug/L			12/28/24 02:36	10
Chloroform	ND		10	2.5	ug/L			12/28/24 02:36	10
Chloromethane	ND		30	4.1	ug/L			12/28/24 02:36	10
cis-1,2-Dichloroethene	ND		10	3.9	ug/L			12/28/24 02:36	10
cis-1,3-Dichloropropene	ND		10	1.3	ug/L			12/28/24 02:36	10
Dibromomethane	ND		10	3.1	ug/L			12/28/24 02:36	10
Dichlorodifluoromethane	ND		10	7.3	ug/L			12/28/24 02:36	10
Ethylbenzene	ND		10	2.1	ug/L			12/28/24 02:36	10
Hexachlorobutadiene	ND		10	4.2	ug/L			12/28/24 02:36	10
Isopropylbenzene	**3.8**	**J**	10	1.8	ug/L			12/28/24 02:36	10

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17241-1
Project/Site: Former Y

Client Sample ID: MW-16 **Lab Sample ID: 885-17241-11**
Date Collected: 12/16/24 17:43 **Matrix: Water**
Date Received: 12/18/24 13:31

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		10	3.9	ug/L			12/28/24 02:36	10
Methylene Chloride	ND		25	12	ug/L			12/28/24 02:36	10
n-Butylbenzene	ND		30	1.3	ug/L			12/28/24 02:36	10
N-Propylbenzene	ND		10	1.1	ug/L			12/28/24 02:36	10
Naphthalene	ND		20	2.4	ug/L			12/28/24 02:36	10
sec-Butylbenzene	ND		10	1.4	ug/L			12/28/24 02:36	10
Styrene	ND		10	1.7	ug/L			12/28/24 02:36	10
tert-Butylbenzene	ND		10	2.4	ug/L			12/28/24 02:36	10
Tetrachloroethene (PCE)	ND		10	1.8	ug/L			12/28/24 02:36	10
Toluene	ND		10	2.5	ug/L			12/28/24 02:36	10
trans-1,2-Dichloroethene	ND		10	1.9	ug/L			12/28/24 02:36	10
trans-1,3-Dichloropropene	ND		10	3.4	ug/L			12/28/24 02:36	10
Trichloroethene (TCE)	ND		10	2.0	ug/L			12/28/24 02:36	10
Trichlorofluoromethane	ND		10	1.6	ug/L			12/28/24 02:36	10
Vinyl chloride	ND		10	3.2	ug/L			12/28/24 02:36	10
Xylenes, Total	**9.8**	**J**	15	3.7	ug/L			12/28/24 02:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*		*12/28/24 02:36*	*10*
Toluene-d8 (Surr)	*118*		*70 - 130*		*12/28/24 02:36*	*10*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*12/28/24 02:36*	*10*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*12/28/24 02:36*	*10*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*+	0.0095	0.0076	ug/L		12/23/24 11:29	12/23/24 22:58	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17241-1

Client Sample ID: BW-9
Date Collected: 12/17/24 11:50
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-12
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			12/28/24 03:04	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			12/28/24 03:04	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			12/28/24 03:04	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			12/28/24 03:04	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/28/24 03:04	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/28/24 03:04	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			12/28/24 03:04	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			12/28/24 03:04	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			12/28/24 03:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/28/24 03:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			12/28/24 03:04	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			12/28/24 03:04	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			12/28/24 03:04	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/28/24 03:04	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			12/28/24 03:04	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			12/28/24 03:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			12/28/24 03:04	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			12/28/24 03:04	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			12/28/24 03:04	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			12/28/24 03:04	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			12/28/24 03:04	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			12/28/24 03:04	1
2-Butanone	ND		10	2.0	ug/L			12/28/24 03:04	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			12/28/24 03:04	1
2-Hexanone	ND		10	1.8	ug/L			12/28/24 03:04	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			12/28/24 03:04	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			12/28/24 03:04	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			12/28/24 03:04	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			12/28/24 03:04	1
Acetone	ND		10	2.5	ug/L			12/28/24 03:04	1
Benzene	ND		1.0	0.23	ug/L			12/28/24 03:04	1
Bromobenzene	ND		1.0	0.28	ug/L			12/28/24 03:04	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/28/24 03:04	1
Dibromochloromethane	ND		1.0	0.28	ug/L			12/28/24 03:04	1
Bromoform	ND		1.0	0.31	ug/L			12/28/24 03:04	1
Bromomethane	ND		3.0	1.0	ug/L			12/28/24 03:04	1
Carbon disulfide	ND		10	1.0	ug/L			12/28/24 03:04	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			12/28/24 03:04	1
Chlorobenzene	ND		1.0	0.46	ug/L			12/28/24 03:04	1
Chloroethane	ND		2.0	0.38	ug/L			12/28/24 03:04	1
Chloroform	ND		1.0	0.25	ug/L			12/28/24 03:04	1
Chloromethane	ND		3.0	0.41	ug/L			12/28/24 03:04	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/28/24 03:04	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			12/28/24 03:04	1
Dibromomethane	ND		1.0	0.31	ug/L			12/28/24 03:04	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			12/28/24 03:04	1
Ethylbenzene	ND		1.0	0.21	ug/L			12/28/24 03:04	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			12/28/24 03:04	1
Isopropylbenzene	ND		1.0	0.18	ug/L			12/28/24 03:04	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17241-1
Project/Site: Former Y

Client Sample ID: BW-9 **Lab Sample ID: 885-17241-12**
Date Collected: 12/17/24 11:50 **Matrix: Water**
Date Received: 12/18/24 13:31

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			12/28/24 03:04	1
Methylene Chloride	ND		2.5	1.2	ug/L			12/28/24 03:04	1
n-Butylbenzene	ND		3.0	0.13	ug/L			12/28/24 03:04	1
N-Propylbenzene	ND		1.0	0.11	ug/L			12/28/24 03:04	1
Naphthalene	ND		2.0	0.24	ug/L			12/28/24 03:04	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			12/28/24 03:04	1
Styrene	ND		1.0	0.17	ug/L			12/28/24 03:04	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			12/28/24 03:04	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			12/28/24 03:04	1
Toluene	ND		1.0	0.25	ug/L			12/28/24 03:04	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			12/28/24 03:04	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			12/28/24 03:04	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			12/28/24 03:04	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			12/28/24 03:04	1
Vinyl chloride	ND		1.0	0.32	ug/L			12/28/24 03:04	1
Xylenes, Total	ND		1.5	0.37	ug/L			12/28/24 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*		*12/28/24 03:04*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*12/28/24 03:04*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/28/24 03:04*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*12/28/24 03:04*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*+	0.0094	0.0075	ug/L		12/23/24 11:29	12/23/24 23:12	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-17241-1
Project/Site: Former Y

Client Sample ID: BW-10
Lab Sample ID: 885-17241-13
Date Collected: 12/17/24 14:12
Matrix: Water
Date Received: 12/18/24 13:31

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			12/28/24 03:31	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			12/28/24 03:31	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			12/28/24 03:31	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			12/28/24 03:31	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/28/24 03:31	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/28/24 03:31	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			12/28/24 03:31	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			12/28/24 03:31	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			12/28/24 03:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/28/24 03:31	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			12/28/24 03:31	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			12/28/24 03:31	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			12/28/24 03:31	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/28/24 03:31	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			12/28/24 03:31	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			12/28/24 03:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			12/28/24 03:31	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			12/28/24 03:31	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			12/28/24 03:31	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			12/28/24 03:31	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			12/28/24 03:31	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			12/28/24 03:31	1
2-Butanone	ND		10	2.0	ug/L			12/28/24 03:31	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			12/28/24 03:31	1
2-Hexanone	ND		10	1.8	ug/L			12/28/24 03:31	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			12/28/24 03:31	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			12/28/24 03:31	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			12/28/24 03:31	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			12/28/24 03:31	1
Acetone	ND		10	2.5	ug/L			12/28/24 03:31	1
Benzene	ND		1.0	0.23	ug/L			12/28/24 03:31	1
Bromobenzene	ND		1.0	0.28	ug/L			12/28/24 03:31	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/28/24 03:31	1
Dibromochloromethane	ND		1.0	0.28	ug/L			12/28/24 03:31	1
Bromoform	ND		1.0	0.31	ug/L			12/28/24 03:31	1
Bromomethane	ND		3.0	1.0	ug/L			12/28/24 03:31	1
Carbon disulfide	ND		10	1.0	ug/L			12/28/24 03:31	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			12/28/24 03:31	1
Chlorobenzene	ND		1.0	0.46	ug/L			12/28/24 03:31	1
Chloroethane	ND		2.0	0.38	ug/L			12/28/24 03:31	1
Chloroform	ND		1.0	0.25	ug/L			12/28/24 03:31	1
Chloromethane	ND		3.0	0.41	ug/L			12/28/24 03:31	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/28/24 03:31	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			12/28/24 03:31	1
Dibromomethane	ND		1.0	0.31	ug/L			12/28/24 03:31	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			12/28/24 03:31	1
Ethylbenzene	ND		1.0	0.21	ug/L			12/28/24 03:31	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			12/28/24 03:31	1
Isopropylbenzene	ND		1.0	0.18	ug/L			12/28/24 03:31	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17241-1
Project/Site: Former Y

Client Sample ID: BW-10 **Lab Sample ID: 885-17241-13**
Date Collected: 12/17/24 14:12 **Matrix: Water**
Date Received: 12/18/24 13:31

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			12/28/24 03:31	1
Methylene Chloride	ND		2.5	1.2	ug/L			12/28/24 03:31	1
n-Butylbenzene	ND		3.0	0.13	ug/L			12/28/24 03:31	1
N-Propylbenzene	ND		1.0	0.11	ug/L			12/28/24 03:31	1
Naphthalene	ND		2.0	0.24	ug/L			12/28/24 03:31	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			12/28/24 03:31	1
Styrene	ND		1.0	0.17	ug/L			12/28/24 03:31	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			12/28/24 03:31	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			12/28/24 03:31	1
Toluene	ND		1.0	0.25	ug/L			12/28/24 03:31	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			12/28/24 03:31	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			12/28/24 03:31	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			12/28/24 03:31	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			12/28/24 03:31	1
Vinyl chloride	ND		1.0	0.32	ug/L			12/28/24 03:31	1
Xylenes, Total	ND		1.5	0.37	ug/L			12/28/24 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*		*12/28/24 03:31*	*1*
Toluene-d8 (Surr)	*117*		*70 - 130*		*12/28/24 03:31*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*12/28/24 03:31*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*12/28/24 03:31*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*+	0.0094	0.0075	ug/L		12/23/24 11:29	12/23/24 23:26	1

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-17241-1
Project/Site: Former Y

Client Sample ID: BW-14
Lab Sample ID: 885-17241-14
Date Collected: 12/17/24 11:36
Matrix: Water
Date Received: 12/18/24 13:31

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			12/28/24 03:58	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			12/28/24 03:58	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			12/28/24 03:58	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			12/28/24 03:58	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/28/24 03:58	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/28/24 03:58	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			12/28/24 03:58	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			12/28/24 03:58	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			12/28/24 03:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/28/24 03:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			12/28/24 03:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			12/28/24 03:58	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			12/28/24 03:58	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/28/24 03:58	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			12/28/24 03:58	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			12/28/24 03:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			12/28/24 03:58	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			12/28/24 03:58	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			12/28/24 03:58	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			12/28/24 03:58	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			12/28/24 03:58	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			12/28/24 03:58	1
2-Butanone	ND		10	2.0	ug/L			12/28/24 03:58	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			12/28/24 03:58	1
2-Hexanone	ND		10	1.8	ug/L			12/28/24 03:58	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			12/28/24 03:58	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			12/28/24 03:58	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			12/28/24 03:58	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			12/28/24 03:58	1
Acetone	ND		10	2.5	ug/L			12/28/24 03:58	1
Benzene	ND		1.0	0.23	ug/L			12/28/24 03:58	1
Bromobenzene	ND		1.0	0.28	ug/L			12/28/24 03:58	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/28/24 03:58	1
Dibromochloromethane	ND		1.0	0.28	ug/L			12/28/24 03:58	1
Bromoform	ND		1.0	0.31	ug/L			12/28/24 03:58	1
Bromomethane	ND		3.0	1.0	ug/L			12/28/24 03:58	1
Carbon disulfide	ND		10	1.0	ug/L			12/28/24 03:58	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			12/28/24 03:58	1
Chlorobenzene	ND		1.0	0.46	ug/L			12/28/24 03:58	1
Chloroethane	ND		2.0	0.38	ug/L			12/28/24 03:58	1
Chloroform	ND		1.0	0.25	ug/L			12/28/24 03:58	1
Chloromethane	ND		3.0	0.41	ug/L			12/28/24 03:58	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/28/24 03:58	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			12/28/24 03:58	1
Dibromomethane	ND		1.0	0.31	ug/L			12/28/24 03:58	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			12/28/24 03:58	1
Ethylbenzene	ND		1.0	0.21	ug/L			12/28/24 03:58	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			12/28/24 03:58	1
Isopropylbenzene	ND		1.0	0.18	ug/L			12/28/24 03:58	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17241-1

Client Sample ID: BW-14
Date Collected: 12/17/24 11:36
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-14
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			12/28/24 03:58	1
Methylene Chloride	ND		2.5	1.2	ug/L			12/28/24 03:58	1
n-Butylbenzene	ND		3.0	0.13	ug/L			12/28/24 03:58	1
N-Propylbenzene	ND		1.0	0.11	ug/L			12/28/24 03:58	1
Naphthalene	ND		2.0	0.24	ug/L			12/28/24 03:58	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			12/28/24 03:58	1
Styrene	ND		1.0	0.17	ug/L			12/28/24 03:58	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			12/28/24 03:58	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			12/28/24 03:58	1
Toluene	ND		1.0	0.25	ug/L			12/28/24 03:58	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			12/28/24 03:58	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			12/28/24 03:58	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			12/28/24 03:58	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			12/28/24 03:58	1
Vinyl chloride	ND		1.0	0.32	ug/L			12/28/24 03:58	1
Xylenes, Total	ND		1.5	0.37	ug/L			12/28/24 03:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*		*12/28/24 03:58*	*1*
Toluene-d8 (Surr)	*118*		*70 - 130*		*12/28/24 03:58*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/28/24 03:58*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*12/28/24 03:58*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*+	0.0095	0.0076	ug/L		12/23/24 11:29	12/23/24 23:41	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17241-1

Client Sample ID: TRIP BLANK
Date Collected: 12/17/24 00:00
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-15
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			12/28/24 04:25	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			12/28/24 04:25	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			12/28/24 04:25	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			12/28/24 04:25	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/28/24 04:25	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/28/24 04:25	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			12/28/24 04:25	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			12/28/24 04:25	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			12/28/24 04:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/28/24 04:25	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			12/28/24 04:25	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			12/28/24 04:25	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			12/28/24 04:25	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/28/24 04:25	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			12/28/24 04:25	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			12/28/24 04:25	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			12/28/24 04:25	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			12/28/24 04:25	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			12/28/24 04:25	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			12/28/24 04:25	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			12/28/24 04:25	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			12/28/24 04:25	1
2-Butanone	ND		10	2.0	ug/L			12/28/24 04:25	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			12/28/24 04:25	1
2-Hexanone	ND		10	1.8	ug/L			12/28/24 04:25	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			12/28/24 04:25	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			12/28/24 04:25	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			12/28/24 04:25	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			12/28/24 04:25	1
Acetone	ND		10	2.5	ug/L			12/28/24 04:25	1
Benzene	ND		1.0	0.23	ug/L			12/28/24 04:25	1
Bromobenzene	ND		1.0	0.28	ug/L			12/28/24 04:25	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/28/24 04:25	1
Dibromochloromethane	ND		1.0	0.28	ug/L			12/28/24 04:25	1
Bromoform	ND		1.0	0.31	ug/L			12/28/24 04:25	1
Bromomethane	ND		3.0	1.0	ug/L			12/28/24 04:25	1
Carbon disulfide	ND		10	1.0	ug/L			12/28/24 04:25	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			12/28/24 04:25	1
Chlorobenzene	ND		1.0	0.46	ug/L			12/28/24 04:25	1
Chloroethane	ND		2.0	0.38	ug/L			12/28/24 04:25	1
Chloroform	ND		1.0	0.25	ug/L			12/28/24 04:25	1
Chloromethane	ND		3.0	0.41	ug/L			12/28/24 04:25	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/28/24 04:25	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			12/28/24 04:25	1
Dibromomethane	ND		1.0	0.31	ug/L			12/28/24 04:25	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			12/28/24 04:25	1
Ethylbenzene	ND		1.0	0.21	ug/L			12/28/24 04:25	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			12/28/24 04:25	1
Isopropylbenzene	ND		1.0	0.18	ug/L			12/28/24 04:25	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17241-1
Project/Site: Former Y

Client Sample ID: TRIP BLANK **Lab Sample ID: 885-17241-15**
Date Collected: 12/17/24 00:00 **Matrix: Water**
Date Received: 12/18/24 13:31

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			12/28/24 04:25	1
Methylene Chloride	ND		2.5	1.2	ug/L			12/28/24 04:25	1
n-Butylbenzene	ND		3.0	0.13	ug/L			12/28/24 04:25	1
N-Propylbenzene	ND		1.0	0.11	ug/L			12/28/24 04:25	1
Naphthalene	ND		2.0	0.24	ug/L			12/28/24 04:25	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			12/28/24 04:25	1
Styrene	ND		1.0	0.17	ug/L			12/28/24 04:25	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			12/28/24 04:25	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			12/28/24 04:25	1
Toluene	ND		1.0	0.25	ug/L			12/28/24 04:25	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			12/28/24 04:25	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			12/28/24 04:25	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			12/28/24 04:25	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			12/28/24 04:25	1
Vinyl chloride	ND		1.0	0.32	ug/L			12/28/24 04:25	1
Xylenes, Total	ND		1.5	0.37	ug/L			12/28/24 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*		*12/28/24 04:25*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*		*12/28/24 04:25*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*12/28/24 04:25*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*12/28/24 04:25*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*+	0.0094	0.0075	ug/L		12/23/24 11:29	12/24/24 00:09	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-18508/5
Matrix: Water
Analysis Batch: 18508

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			12/27/24 11:07	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			12/27/24 11:07	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			12/27/24 11:07	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			12/27/24 11:07	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/27/24 11:07	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/27/24 11:07	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			12/27/24 11:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			12/27/24 11:07	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			12/27/24 11:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/27/24 11:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			12/27/24 11:07	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			12/27/24 11:07	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			12/27/24 11:07	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/27/24 11:07	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			12/27/24 11:07	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			12/27/24 11:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			12/27/24 11:07	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			12/27/24 11:07	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			12/27/24 11:07	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			12/27/24 11:07	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			12/27/24 11:07	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			12/27/24 11:07	1
2-Butanone	ND		10	2.0	ug/L			12/27/24 11:07	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			12/27/24 11:07	1
2-Hexanone	ND		10	1.8	ug/L			12/27/24 11:07	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			12/27/24 11:07	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			12/27/24 11:07	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			12/27/24 11:07	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			12/27/24 11:07	1
Acetone	ND		10	2.5	ug/L			12/27/24 11:07	1
Benzene	ND		1.0	0.23	ug/L			12/27/24 11:07	1
Bromobenzene	ND		1.0	0.28	ug/L			12/27/24 11:07	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/27/24 11:07	1
Dibromochloromethane	ND		1.0	0.28	ug/L			12/27/24 11:07	1
Bromoform	ND		1.0	0.31	ug/L			12/27/24 11:07	1
Bromomethane	ND		3.0	1.0	ug/L			12/27/24 11:07	1
Carbon disulfide	ND		10	1.0	ug/L			12/27/24 11:07	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			12/27/24 11:07	1
Chlorobenzene	ND		1.0	0.46	ug/L			12/27/24 11:07	1
Chloroethane	ND		2.0	0.38	ug/L			12/27/24 11:07	1
Chloroform	ND		1.0	0.25	ug/L			12/27/24 11:07	1
Chloromethane	ND		3.0	0.41	ug/L			12/27/24 11:07	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/27/24 11:07	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			12/27/24 11:07	1
Dibromomethane	ND		1.0	0.31	ug/L			12/27/24 11:07	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			12/27/24 11:07	1
Ethylbenzene	ND		1.0	0.21	ug/L			12/27/24 11:07	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			12/27/24 11:07	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-18508/5
Matrix: Water
Analysis Batch: 18508

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.18	ug/L			12/27/24 11:07	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			12/27/24 11:07	1
Methylene Chloride	ND		2.5	1.2	ug/L			12/27/24 11:07	1
n-Butylbenzene	ND		3.0	0.13	ug/L			12/27/24 11:07	1
N-Propylbenzene	ND		1.0	0.11	ug/L			12/27/24 11:07	1
Naphthalene	ND		2.0	0.24	ug/L			12/27/24 11:07	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			12/27/24 11:07	1
Styrene	ND		1.0	0.17	ug/L			12/27/24 11:07	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			12/27/24 11:07	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			12/27/24 11:07	1
Toluene	ND		1.0	0.25	ug/L			12/27/24 11:07	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			12/27/24 11:07	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			12/27/24 11:07	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			12/27/24 11:07	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			12/27/24 11:07	1
Vinyl chloride	ND		1.0	0.32	ug/L			12/27/24 11:07	1
Xylenes, Total	ND		1.5	0.37	ug/L			12/27/24 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*		*12/27/24 11:07*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*		*12/27/24 11:07*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*12/27/24 11:07*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*12/27/24 11:07*	*1*

Lab Sample ID: LCS 885-18508/4
Matrix: Water
Analysis Batch: 18508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.1	15.7		ug/L		78	70 - 130
Benzene	20.1	14.5		ug/L		72	70 - 130
Chlorobenzene	20.1	22.7		ug/L		113	70 - 130
Toluene	20.2	22.6		ug/L		112	70 - 130
Trichloroethene (TCE)	20.2	17.1		ug/L		85	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 130*
Toluene-d8 (Surr)	*114*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 885-18509/5
Matrix: Water
Analysis Batch: 18509

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			12/27/24 23:54	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			12/27/24 23:54	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-18509/5
Matrix: Water
Analysis Batch: 18509

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			12/27/24 23:54	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			12/27/24 23:54	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/27/24 23:54	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/27/24 23:54	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			12/27/24 23:54	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			12/27/24 23:54	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			12/27/24 23:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/27/24 23:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			12/27/24 23:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			12/27/24 23:54	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			12/27/24 23:54	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/27/24 23:54	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			12/27/24 23:54	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			12/27/24 23:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			12/27/24 23:54	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			12/27/24 23:54	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			12/27/24 23:54	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			12/27/24 23:54	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			12/27/24 23:54	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			12/27/24 23:54	1
2-Butanone	ND		10	2.0	ug/L			12/27/24 23:54	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			12/27/24 23:54	1
2-Hexanone	ND		10	1.8	ug/L			12/27/24 23:54	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			12/27/24 23:54	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			12/27/24 23:54	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			12/27/24 23:54	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			12/27/24 23:54	1
Acetone	ND		10	2.5	ug/L			12/27/24 23:54	1
Benzene	ND		1.0	0.23	ug/L			12/27/24 23:54	1
Bromobenzene	ND		1.0	0.28	ug/L			12/27/24 23:54	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/27/24 23:54	1
Dibromochloromethane	ND		1.0	0.28	ug/L			12/27/24 23:54	1
Bromoform	ND		1.0	0.31	ug/L			12/27/24 23:54	1
Bromomethane	ND		3.0	1.0	ug/L			12/27/24 23:54	1
Carbon disulfide	ND		10	1.0	ug/L			12/27/24 23:54	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			12/27/24 23:54	1
Chlorobenzene	ND		1.0	0.46	ug/L			12/27/24 23:54	1
Chloroethane	ND		2.0	0.38	ug/L			12/27/24 23:54	1
Chloroform	ND		1.0	0.25	ug/L			12/27/24 23:54	1
Chloromethane	ND		3.0	0.41	ug/L			12/27/24 23:54	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/27/24 23:54	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			12/27/24 23:54	1
Dibromomethane	ND		1.0	0.31	ug/L			12/27/24 23:54	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			12/27/24 23:54	1
Ethylbenzene	ND		1.0	0.21	ug/L			12/27/24 23:54	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			12/27/24 23:54	1
Isopropylbenzene	ND		1.0	0.18	ug/L			12/27/24 23:54	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			12/27/24 23:54	1
Methylene Chloride	ND		2.5	1.2	ug/L			12/27/24 23:54	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-18509/5
Matrix: Water
Analysis Batch: 18509

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		3.0	0.13	ug/L			12/27/24 23:54	1
N-Propylbenzene	ND		1.0	0.11	ug/L			12/27/24 23:54	1
Naphthalene	ND		2.0	0.24	ug/L			12/27/24 23:54	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			12/27/24 23:54	1
Styrene	ND		1.0	0.17	ug/L			12/27/24 23:54	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			12/27/24 23:54	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			12/27/24 23:54	1
Toluene	ND		1.0	0.25	ug/L			12/27/24 23:54	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			12/27/24 23:54	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			12/27/24 23:54	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			12/27/24 23:54	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			12/27/24 23:54	1
Vinyl chloride	ND		1.0	0.32	ug/L			12/27/24 23:54	1
Xylenes, Total	ND		1.5	0.37	ug/L			12/27/24 23:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*		*12/27/24 23:54*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*12/27/24 23:54*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/27/24 23:54*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*12/27/24 23:54*	*1*

Lab Sample ID: LCS 885-18509/4
Matrix: Water
Analysis Batch: 18509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	16.0		ug/L		79	70 - 130		
Benzene			20.1	15.1		ug/L		75	70 - 130		
Chlorobenzene			20.1	23.5		ug/L		117	70 - 130		
Toluene			20.2	23.2		ug/L		115	70 - 130		
Trichloroethene (TCE)			20.2	17.7		ug/L		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*
Toluene-d8 (Surr)	*116*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*92*		*70 - 130*

Lab Sample ID: 885-17241-8 MS
Matrix: Water
Analysis Batch: 18509

Client Sample ID: BW-7R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene	ND		40.3	31.5		ug/L		78	70 - 130		
Benzene	ND		40.2	31.2		ug/L		78	70 - 130		
Chlorobenzene	ND		40.1	45.7		ug/L		114	70 - 130		
Toluene	ND		40.3	44.7		ug/L		111	70 - 130		
Trichloroethene (TCE)	ND		40.3	34.5		ug/L		85	70 - 130		

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 885-17241-8 MS
Matrix: Water
Analysis Batch: 18509

Client Sample ID: BW-7R
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
Toluene-d8 (Surr)	*114*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*

Lab Sample ID: 885-17241-8 MSD
Matrix: Water
Analysis Batch: 18509

Client Sample ID: BW-7R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	ND		40.3	28.9		ug/L		72	70 - 130	9	20
Benzene	ND		40.2	29.2		ug/L		73	70 - 130	6	20
Chlorobenzene	ND		40.1	43.1		ug/L		107	70 - 130	6	20
Toluene	ND		40.3	41.7		ug/L		104	70 - 130	7	20
Trichloroethene (TCE)	ND		40.3	32.3		ug/L		80	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
Toluene-d8 (Surr)	*111*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*

Lab Sample ID: MB 885-18537/5
Matrix: Water
Analysis Batch: 18537

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			12/30/24 10:54	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			12/30/24 10:54	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			12/30/24 10:54	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			12/30/24 10:54	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			12/30/24 10:54	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			12/30/24 10:54	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			12/30/24 10:54	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			12/30/24 10:54	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			12/30/24 10:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/30/24 10:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			12/30/24 10:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			12/30/24 10:54	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			12/30/24 10:54	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			12/30/24 10:54	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			12/30/24 10:54	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			12/30/24 10:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			12/30/24 10:54	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			12/30/24 10:54	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			12/30/24 10:54	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			12/30/24 10:54	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			12/30/24 10:54	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-18537/5
Matrix: Water
Analysis Batch: 18537

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		2.0	0.26	ug/L			12/30/24 10:54	1
2-Butanone	ND		10	2.0	ug/L			12/30/24 10:54	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			12/30/24 10:54	1
2-Hexanone	ND		10	1.8	ug/L			12/30/24 10:54	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			12/30/24 10:54	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			12/30/24 10:54	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			12/30/24 10:54	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			12/30/24 10:54	1
Acetone	ND		10	2.5	ug/L			12/30/24 10:54	1
Benzene	ND		1.0	0.23	ug/L			12/30/24 10:54	1
Bromobenzene	ND		1.0	0.28	ug/L			12/30/24 10:54	1
Bromodichloromethane	ND		1.0	0.20	ug/L			12/30/24 10:54	1
Dibromochloromethane	ND		1.0	0.28	ug/L			12/30/24 10:54	1
Bromoform	ND		1.0	0.31	ug/L			12/30/24 10:54	1
Bromomethane	ND		3.0	1.0	ug/L			12/30/24 10:54	1
Carbon disulfide	ND		10	1.0	ug/L			12/30/24 10:54	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			12/30/24 10:54	1
Chlorobenzene	ND		1.0	0.46	ug/L			12/30/24 10:54	1
Chloroethane	ND		2.0	0.38	ug/L			12/30/24 10:54	1
Chloroform	ND		1.0	0.25	ug/L			12/30/24 10:54	1
Chloromethane	ND		3.0	0.41	ug/L			12/30/24 10:54	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			12/30/24 10:54	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			12/30/24 10:54	1
Dibromomethane	ND		1.0	0.31	ug/L			12/30/24 10:54	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			12/30/24 10:54	1
Ethylbenzene	ND		1.0	0.21	ug/L			12/30/24 10:54	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			12/30/24 10:54	1
Isopropylbenzene	ND		1.0	0.18	ug/L			12/30/24 10:54	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			12/30/24 10:54	1
Methylene Chloride	ND		2.5	1.2	ug/L			12/30/24 10:54	1
n-Butylbenzene	ND		3.0	0.13	ug/L			12/30/24 10:54	1
N-Propylbenzene	ND		1.0	0.11	ug/L			12/30/24 10:54	1
Naphthalene	ND		2.0	0.24	ug/L			12/30/24 10:54	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			12/30/24 10:54	1
Styrene	ND		1.0	0.17	ug/L			12/30/24 10:54	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			12/30/24 10:54	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			12/30/24 10:54	1
Toluene	ND		1.0	0.25	ug/L			12/30/24 10:54	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			12/30/24 10:54	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			12/30/24 10:54	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			12/30/24 10:54	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			12/30/24 10:54	1
Vinyl chloride	ND		1.0	0.32	ug/L			12/30/24 10:54	1
Xylenes, Total	ND		1.5	0.37	ug/L			12/30/24 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*12/30/24 10:54*	*1*
Toluene-d8 (Surr)	*134*	*S1+*	*70 - 130*		*12/30/24 10:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-18537/5
Matrix: Water
Analysis Batch: 18537

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*12/30/24 10:54*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*12/30/24 10:54*	*1*

Lab Sample ID: LCS 885-18537/4
Matrix: Water
Analysis Batch: 18537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.1	17.2		ug/L		85	70 - 130
Benzene	20.1	18.7		ug/L		93	70 - 130
Chlorobenzene	20.1	20.8		ug/L		104	70 - 130
Toluene	20.2	20.7		ug/L		103	70 - 130
Trichloroethene (TCE)	20.2	18.3		ug/L		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-18099/3-A
Matrix: Water
Analysis Batch: 18137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18099

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0080	ug/L		12/19/24 10:11	12/19/24 14:54	1

Lab Sample ID: LCS 885-18099/4-A
Matrix: Water
Analysis Batch: 18137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18099

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.100	0.124		ug/L		124	70 - 130

Lab Sample ID: LCSD 885-18099/5-A
Matrix: Water
Analysis Batch: 18137

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 18099

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.100	0.165	*+ *1	ug/L		165	70 - 130	28	20

Lab Sample ID: MRL 885-18099/1-A
Matrix: Water
Analysis Batch: 18137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18099

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0100	0.0135		ug/L		135	60 - 140

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MB 885-18323/3-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 18352
Prep Batch: 18323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0080	ug/L		12/23/24 11:29	12/23/24 19:24	1

Lab Sample ID: LCS 885-18323/4-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 18352
Prep Batch: 18323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.100	0.163	*+	ug/L		163	70 - 130

Lab Sample ID: LCSD 885-18323/5-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 18352
Prep Batch: 18323

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.100	0.176	*+	ug/L		176	70 - 130	7	20

Lab Sample ID: MRL 885-18323/1-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 18352
Prep Batch: 18323

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0100	0.0139		ug/L		139	60 - 140

Lab Sample ID: MRL 885-18536/1-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 18738
Prep Batch: 18536

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0100	0.0139		ug/L		139	60 - 140

GC/MS VOA

Analysis Batch: 18508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17241-1	MW-15	Total/NA	Water	8260B	
885-17241-2	MW-17	Total/NA	Water	8260B	
885-17241-3	BW-4	Total/NA	Water	8260B	
885-17241-4	BW-8	Total/NA	Water	8260B	
MB 885-18508/5	Method Blank	Total/NA	Water	8260B	
LCS 885-18508/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 18509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17241-8	BW-7R	Total/NA	Water	8260B	
885-17241-9	RW-4	Total/NA	Water	8260B	
885-17241-10	MW-11	Total/NA	Water	8260B	
885-17241-11	MW-16	Total/NA	Water	8260B	
885-17241-12	BW-9	Total/NA	Water	8260B	
885-17241-13	BW-10	Total/NA	Water	8260B	
885-17241-14	BW-14	Total/NA	Water	8260B	
885-17241-15	TRIP BLANK	Total/NA	Water	8260B	
MB 885-18509/5	Method Blank	Total/NA	Water	8260B	
LCS 885-18509/4	Lab Control Sample	Total/NA	Water	8260B	
885-17241-8 MS	BW-7R	Total/NA	Water	8260B	
885-17241-8 MSD	BW-7R	Total/NA	Water	8260B	

Analysis Batch: 18537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17241-5	BW-5	Total/NA	Water	8260B	
885-17241-6	MW-12	Total/NA	Water	8260B	
885-17241-7	MW-13	Total/NA	Water	8260B	
885-17241-10	MW-11	Total/NA	Water	8260B	
MB 885-18537/5	Method Blank	Total/NA	Water	8260B	
LCS 885-18537/4	Lab Control Sample	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 18099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17241-2	MW-17	Total/NA	Water	8011	
885-17241-3	BW-4	Total/NA	Water	8011	
MB 885-18099/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-18099/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 885-18099/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MRL 885-18099/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 18137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17241-2	MW-17	Total/NA	Water	8011	18099
885-17241-3	BW-4	Total/NA	Water	8011	18099
MB 885-18099/3-A	Method Blank	Total/NA	Water	8011	18099
LCS 885-18099/4-A	Lab Control Sample	Total/NA	Water	8011	18099
LCSD 885-18099/5-A	Lab Control Sample Dup	Total/NA	Water	8011	18099
MRL 885-18099/1-A	Lab Control Sample	Total/NA	Water	8011	18099

GC Semi VOA

Prep Batch: 18226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17241-1	MW-15	Total/NA	Water	8011	
885-17241-4	BW-8	Total/NA	Water	8011	
885-17241-5	BW-5	Total/NA	Water	8011	
885-17241-6	MW-12	Total/NA	Water	8011	

Prep Batch: 18323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17241-7	MW-13	Total/NA	Water	8011	
885-17241-8	BW-7R	Total/NA	Water	8011	
885-17241-9	RW-4	Total/NA	Water	8011	
885-17241-10	MW-11	Total/NA	Water	8011	
885-17241-11	MW-16	Total/NA	Water	8011	
885-17241-12	BW-9	Total/NA	Water	8011	
885-17241-13	BW-10	Total/NA	Water	8011	
885-17241-14	BW-14	Total/NA	Water	8011	
885-17241-15	TRIP BLANK	Total/NA	Water	8011	
MB 885-18323/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-18323/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 885-18323/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MRL 885-18323/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 18352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17241-7	MW-13	Total/NA	Water	8011	18323
885-17241-8	BW-7R	Total/NA	Water	8011	18323
885-17241-9	RW-4	Total/NA	Water	8011	18323
885-17241-10	MW-11	Total/NA	Water	8011	18323
885-17241-11	MW-16	Total/NA	Water	8011	18323
885-17241-12	BW-9	Total/NA	Water	8011	18323
885-17241-13	BW-10	Total/NA	Water	8011	18323
885-17241-14	BW-14	Total/NA	Water	8011	18323
885-17241-15	TRIP BLANK	Total/NA	Water	8011	18323
MB 885-18323/3-A	Method Blank	Total/NA	Water	8011	18323
LCS 885-18323/4-A	Lab Control Sample	Total/NA	Water	8011	18323
LCSD 885-18323/5-A	Lab Control Sample Dup	Total/NA	Water	8011	18323
MRL 885-18323/1-A	Lab Control Sample	Total/NA	Water	8011	18323

Prep Batch: 18536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 885-18536/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 18738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17241-1	MW-15	Total/NA	Water	8011	18226
885-17241-4	BW-8	Total/NA	Water	8011	18226
885-17241-5	BW-5	Total/NA	Water	8011	18226
885-17241-6	MW-12	Total/NA	Water	8011	18226
MRL 885-18536/1-A	Lab Control Sample	Total/NA	Water	8011	18536

Client Sample ID: MW-15
Lab Sample ID: 885-17241-1

Date Collected: 12/17/24 11:12
Matrix: Water
Date Received: 12/18/24 13:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18508	JR	EET ALB	12/27/24 18:27
Total/NA	Prep	8011			18226	KR	EET ALB	12/20/24 12:13
Total/NA	Analysis	8011		10	18738	KR	EET ALB	01/02/25 19:59

Client Sample ID: MW-17
Lab Sample ID: 885-17241-2

Date Collected: 12/17/24 11:00
Matrix: Water
Date Received: 12/18/24 13:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18508	JR	EET ALB	12/27/24 18:54
Total/NA	Prep	8011			18099	KR	EET ALB	12/19/24 10:11
Total/NA	Analysis	8011		1	18137	KR	EET ALB	12/19/24 18:42

Client Sample ID: BW-4
Lab Sample ID: 885-17241-3

Date Collected: 12/17/24 16:43
Matrix: Water
Date Received: 12/18/24 13:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18508	JR	EET ALB	12/27/24 19:22
Total/NA	Prep	8011			18099	KR	EET ALB	12/19/24 10:11
Total/NA	Analysis	8011		1	18137	KR	EET ALB	12/19/24 18:56

Client Sample ID: BW-8
Lab Sample ID: 885-17241-4

Date Collected: 12/17/24 13:52
Matrix: Water
Date Received: 12/18/24 13:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		10	18508	JR	EET ALB	12/27/24 19:49
Total/NA	Prep	8011			18226	KR	EET ALB	12/20/24 12:13
Total/NA	Analysis	8011		20	18738	KR	EET ALB	01/02/25 20:13

Client Sample ID: BW-5
Lab Sample ID: 885-17241-5

Date Collected: 12/17/24 15:26
Matrix: Water
Date Received: 12/18/24 13:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	18537	JR	EET ALB	12/30/24 11:22
Total/NA	Prep	8011			18226	KR	EET ALB	12/20/24 12:13
Total/NA	Analysis	8011		50	18738	KR	EET ALB	01/02/25 20:27

Client Sample ID: MW-12
Lab Sample ID: 885-17241-6

Date Collected: 12/17/24 16:04
Matrix: Water
Date Received: 12/18/24 13:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	18537	JR	EET ALB	12/30/24 12:17

Client Sample ID: MW-12
Lab Sample ID: 885-17241-6

Date Collected: 12/17/24 16:04
Matrix: Water
Date Received: 12/18/24 13:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8011			18226	KR	EET ALB	12/20/24 12:13
Total/NA	Analysis	8011		50	18738	KR	EET ALB	01/02/25 20:42

Client Sample ID: MW-13
Lab Sample ID: 885-17241-7

Date Collected: 12/17/24 10:09
Matrix: Water
Date Received: 12/18/24 13:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	18537	JR	EET ALB	12/30/24 12:44
Total/NA	Prep	8011			18323	KR	EET ALB	12/23/24 11:29
Total/NA	Analysis	8011		1	18352	KR	EET ALB	12/23/24 22:15

Client Sample ID: BW-7R
Lab Sample ID: 885-17241-8

Date Collected: 12/16/24 17:27
Matrix: Water
Date Received: 12/18/24 13:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	18509	JR	EET ALB	12/28/24 00:21
Total/NA	Prep	8011			18323	KR	EET ALB	12/23/24 11:29
Total/NA	Analysis	8011		1	18352	KR	EET ALB	12/23/24 22:01

Client Sample ID: RW-4
Lab Sample ID: 885-17241-9

Date Collected: 12/17/24 17:40
Matrix: Water
Date Received: 12/18/24 13:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		20	18509	JR	EET ALB	12/28/24 01:42
Total/NA	Prep	8011			18323	KR	EET ALB	12/23/24 11:29
Total/NA	Analysis	8011		1	18352	KR	EET ALB	12/23/24 22:30

Client Sample ID: MW-11
Lab Sample ID: 885-17241-10

Date Collected: 12/16/24 15:10
Matrix: Water
Date Received: 12/18/24 13:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		10	18509	JR	EET ALB	12/28/24 02:09
Total/NA	Analysis	8260B		100	18537	JR	EET ALB	12/30/24 11:49
Total/NA	Prep	8011			18323	KR	EET ALB	12/23/24 11:29
Total/NA	Analysis	8011		1	18352	KR	EET ALB	12/23/24 22:44

Client Sample ID: MW-16
Lab Sample ID: 885-17241-11

Date Collected: 12/16/24 17:43
Matrix: Water
Date Received: 12/18/24 13:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		10	18509	JR	EET ALB	12/28/24 02:36

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17241-1

Client Sample ID: MW-16
Date Collected: 12/16/24 17:43
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8011			18323	KR	EET ALB	12/23/24 11:29
Total/NA	Analysis	8011		1	18352	KR	EET ALB	12/23/24 22:58

Client Sample ID: BW-9
Date Collected: 12/17/24 11:50
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18509	JR	EET ALB	12/28/24 03:04
Total/NA	Prep	8011			18323	KR	EET ALB	12/23/24 11:29
Total/NA	Analysis	8011		1	18352	KR	EET ALB	12/23/24 23:12

Client Sample ID: BW-10
Date Collected: 12/17/24 14:12
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18509	JR	EET ALB	12/28/24 03:31
Total/NA	Prep	8011			18323	KR	EET ALB	12/23/24 11:29
Total/NA	Analysis	8011		1	18352	KR	EET ALB	12/23/24 23:26

Client Sample ID: BW-14
Date Collected: 12/17/24 11:36
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18509	JR	EET ALB	12/28/24 03:58
Total/NA	Prep	8011			18323	KR	EET ALB	12/23/24 11:29
Total/NA	Analysis	8011		1	18352	KR	EET ALB	12/23/24 23:41

Client Sample ID: TRIP BLANK
Date Collected: 12/17/24 00:00
Date Received: 12/18/24 13:31

Lab Sample ID: 885-17241-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18509	JR	EET ALB	12/28/24 04:25
Total/NA	Prep	8011			18323	KR	EET ALB	12/23/24 11:29
Total/NA	Analysis	8011		1	18352	KR	EET ALB	12/24/24 00:09

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17241-1
Project/Site: Former Y

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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
8011	8011	Water	1,2-Dibromoethane (EDB)
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-25-25

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
8011	8011	Water	1,2-Dibromoethane (EDB)

Chain-of-Custody Record

Client: DBSA

Mailing Address: 6020 Academy Rd 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

Project Manager: Grace Herrmann

Sampler: T. Del Prete / G. Herrmann

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 3.7 +0.3 = 4.0 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

885-17241 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	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)
12-17-24	11:12	9g	MW-15	5 VOAS	3 HCL 2 SOTH					X				X		
12-17-24	11:00		MW-17							X				X		
12-17-24	16:43		BW-4							X				X		
12-17-24	13:52		BW-8							X				X		
—	—	—	~~BW-7~~	—	—					X				X		
12-17-24	15:26		BW-5							X				X		
12-17-24	16 04		MW-12							X				X		
12-17-24	10:09		MW-13							X				X		
12-16-24	17:27		BW-7R							X				X		
—	—	—	~~RW-3~~	—	—					X				X		
12-17-24	17:40		RW-4							X				X		
12-16-24	15.10		MW-11							X				X		

Date	Time	Relinquished by	Received by	Via	Date	Time
12-18-24	13.29				12-18-24	1331
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: PBSA

Mailing Address: 6020 Academy Rd 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: Formes Y

Project #: DB18.1157

Project Manager: Grace Herrmann

Sampler: T. Del Prete / G. Herrmann

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 3.7 + 0.3 = 4.0 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	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)
12-16-24	17:43	gg	MW-16	5 VOAs	3HCL 250TH					X				X		
~~—~~	~~—~~	~~—~~	~~BW-6~~	~~—~~	~~—~~					~~X~~				~~X~~		
12-17-24	11:50		BW-9							X				X		
12-17-24	14:12		BW-10							X				X		
12-17-24	11:36		BW-14							X				X		
			TRIP BLANK per sample Bottle Jm 12/18/24													

Date	Time	Relinquished by	Received by	Via	Date	Time
12-18-24	13:29			COC	12-18-24	1331
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.

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-17241-1

Login Number: 17241

List Source: Eurofins Albuquerque

List Number: 1

Creator: Dominguez, Desiree

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 1/8/2025 2:23:36 PM

JOB DESCRIPTION

Former Y

JOB NUMBER

885-17460-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

my EOL

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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Definitions/Glossary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17460-1
Project/Site: Former Y

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 885-17460-1 Eurofins Albuquerque

Job Narrative
885-17460-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 12/19/2024 3:31 PM. 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 2.4°C.

Receipt Exceptions
The Field Sampler was not listed on the Chain of Custody.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 885-18828 recovered above the upper control limit for Bromomethane, Chloroethane, Chloromethane and Methylene Chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: Analyzed past hold time. No associated MS/MSD was analyzed; however, LCS results meets analytical requirement. Samples were misplaced in Volatiles storage area.

BW-6 (885-17460-1) and Trip Blank (885-17460-2)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17460-1

Client Sample ID: BW-6
Date Collected: 12/18/24 16:35
Date Received: 12/19/24 15:31

Lab Sample ID: 885-17460-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.27	ug/L			01/06/25 13:17	1
1,1,1-Trichloroethane	ND	H	1.0	0.15	ug/L			01/06/25 13:17	1
1,1,2,2-Tetrachloroethane	ND	H	2.0	0.41	ug/L			01/06/25 13:17	1
1,1,2-Trichloroethane	ND	H	1.0	0.20	ug/L			01/06/25 13:17	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			01/06/25 13:17	1
1,1-Dichloroethene	ND	H	1.0	0.20	ug/L			01/06/25 13:17	1
1,1-Dichloropropene	ND	H	1.0	0.18	ug/L			01/06/25 13:17	1
1,2,3-Trichlorobenzene	ND	H	1.0	0.25	ug/L			01/06/25 13:17	1
1,2,3-Trichloropropane	ND	H	2.0	0.18	ug/L			01/06/25 13:17	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.40	ug/L			01/06/25 13:17	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.12	ug/L			01/06/25 13:17	1
1,2-Dibromo-3-Chloropropane	ND	H	2.0	0.74	ug/L			01/06/25 13:17	1
1,2-Dibromoethane (EDB)	ND	H	1.0	0.30	ug/L			01/06/25 13:17	1
1,2-Dichlorobenzene	ND	H	1.0	0.15	ug/L			01/06/25 13:17	1
1,2-Dichloroethane (EDC)	ND	H	1.0	0.30	ug/L			01/06/25 13:17	1
1,2-Dichloropropane	ND	H	1.0	0.20	ug/L			01/06/25 13:17	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.18	ug/L			01/06/25 13:17	1
1,3-Dichlorobenzene	ND	H	1.0	0.16	ug/L			01/06/25 13:17	1
1,3-Dichloropropane	ND	H	1.0	0.18	ug/L			01/06/25 13:17	1
1,4-Dichlorobenzene	ND	H	1.0	0.11	ug/L			01/06/25 13:17	1
1-Methylnaphthalene	ND	H	4.0	2.0	ug/L			01/06/25 13:17	1
2,2-Dichloropropane	ND	H	2.0	0.26	ug/L			01/06/25 13:17	1
2-Butanone	ND	H	10	2.0	ug/L			01/06/25 13:17	1
2-Chlorotoluene	ND	H	1.0	0.14	ug/L			01/06/25 13:17	1
2-Hexanone	ND	H	10	1.8	ug/L			01/06/25 13:17	1
2-Methylnaphthalene	ND	H	4.0	2.0	ug/L			01/06/25 13:17	1
4-Chlorotoluene	ND	H	1.0	0.13	ug/L			01/06/25 13:17	1
4-Isopropyltoluene	ND	H	1.0	0.20	ug/L			01/06/25 13:17	1
4-Methyl-2-pentanone	ND	H	10	1.5	ug/L			01/06/25 13:17	1
Acetone	ND	H	10	2.5	ug/L			01/06/25 13:17	1
Benzene	ND	H	1.0	0.23	ug/L			01/06/25 13:17	1
Bromobenzene	ND	H	1.0	0.28	ug/L			01/06/25 13:17	1
Bromodichloromethane	ND	H	1.0	0.20	ug/L			01/06/25 13:17	1
Dibromochloromethane	ND	H	1.0	0.28	ug/L			01/06/25 13:17	1
Bromoform	ND	H	1.0	0.31	ug/L			01/06/25 13:17	1
Bromomethane	ND	H	3.0	1.0	ug/L			01/06/25 13:17	1
Carbon disulfide	ND	H	10	1.0	ug/L			01/06/25 13:17	1
Carbon tetrachloride	ND	H	1.0	0.18	ug/L			01/06/25 13:17	1
Chlorobenzene	ND	H	1.0	0.46	ug/L			01/06/25 13:17	1
Chloroethane	ND	H	2.0	0.38	ug/L			01/06/25 13:17	1
Chloroform	ND	H	1.0	0.25	ug/L			01/06/25 13:17	1
Chloromethane	ND	H	3.0	0.41	ug/L			01/06/25 13:17	1
cis-1,2-Dichloroethene	ND	H	1.0	0.39	ug/L			01/06/25 13:17	1
cis-1,3-Dichloropropene	ND	H	1.0	0.13	ug/L			01/06/25 13:17	1
Dibromomethane	ND	H	1.0	0.31	ug/L			01/06/25 13:17	1
Dichlorodifluoromethane	ND	H	1.0	0.73	ug/L			01/06/25 13:17	1
Ethylbenzene	ND	H	1.0	0.21	ug/L			01/06/25 13:17	1
Hexachlorobutadiene	ND	H	1.0	0.42	ug/L			01/06/25 13:17	1
Isopropylbenzene	ND	H	1.0	0.18	ug/L			01/06/25 13:17	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17460-1
Project/Site: Former Y

Client Sample ID: BW-6 **Lab Sample ID: 885-17460-1**
Date Collected: 12/18/24 16:35 **Matrix: Water**
Date Received: 12/19/24 15:31

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND	H	1.0	0.39	ug/L			01/06/25 13:17	1
Methylene Chloride	ND	H	2.5	1.2	ug/L			01/06/25 13:17	1
n-Butylbenzene	ND	H	3.0	0.13	ug/L			01/06/25 13:17	1
N-Propylbenzene	ND	H	1.0	0.11	ug/L			01/06/25 13:17	1
Naphthalene	ND	H	2.0	0.24	ug/L			01/06/25 13:17	1
sec-Butylbenzene	ND	H	1.0	0.14	ug/L			01/06/25 13:17	1
Styrene	ND	H	1.0	0.17	ug/L			01/06/25 13:17	1
tert-Butylbenzene	ND	H	1.0	0.24	ug/L			01/06/25 13:17	1
Tetrachloroethene (PCE)	**0.31**	**J H**	1.0	0.18	ug/L			01/06/25 13:17	1
Toluene	ND	H	1.0	0.25	ug/L			01/06/25 13:17	1
trans-1,2-Dichloroethene	ND	H	1.0	0.19	ug/L			01/06/25 13:17	1
trans-1,3-Dichloropropene	ND	H	1.0	0.34	ug/L			01/06/25 13:17	1
Trichloroethene (TCE)	ND	H	1.0	0.20	ug/L			01/06/25 13:17	1
Trichlorofluoromethane	ND	H	1.0	0.16	ug/L			01/06/25 13:17	1
Vinyl chloride	ND	H	1.0	0.32	ug/L			01/06/25 13:17	1
Xylenes, Total	ND	H	1.5	0.37	ug/L			01/06/25 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*01/06/25 13:17*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*01/06/25 13:17*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*01/06/25 13:17*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*01/06/25 13:17*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0095	0.0076	ug/L		12/30/24 08:14	01/03/25 01:25	1

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17460-1

Client Sample ID: Trip Blank
Date Collected: 12/18/24 00:00
Date Received: 12/19/24 15:31

Lab Sample ID: 885-17460-2
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.27	ug/L			01/06/25 13:42	1
1,1,1-Trichloroethane	ND	H	1.0	0.15	ug/L			01/06/25 13:42	1
1,1,2,2-Tetrachloroethane	ND	H	2.0	0.41	ug/L			01/06/25 13:42	1
1,1,2-Trichloroethane	ND	H	1.0	0.20	ug/L			01/06/25 13:42	1
1,1-Dichloroethane	ND	H	1.0	0.30	ug/L			01/06/25 13:42	1
1,1-Dichloroethene	ND	H	1.0	0.20	ug/L			01/06/25 13:42	1
1,1-Dichloropropene	ND	H	1.0	0.18	ug/L			01/06/25 13:42	1
1,2,3-Trichlorobenzene	ND	H	1.0	0.25	ug/L			01/06/25 13:42	1
1,2,3-Trichloropropane	ND	H	2.0	0.18	ug/L			01/06/25 13:42	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.40	ug/L			01/06/25 13:42	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.12	ug/L			01/06/25 13:42	1
1,2-Dibromo-3-Chloropropane	ND	H	2.0	0.74	ug/L			01/06/25 13:42	1
1,2-Dibromoethane (EDB)	ND	H	1.0	0.30	ug/L			01/06/25 13:42	1
1,2-Dichlorobenzene	ND	H	1.0	0.15	ug/L			01/06/25 13:42	1
1,2-Dichloroethane (EDC)	ND	H	1.0	0.30	ug/L			01/06/25 13:42	1
1,2-Dichloropropane	ND	H	1.0	0.20	ug/L			01/06/25 13:42	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.18	ug/L			01/06/25 13:42	1
1,3-Dichlorobenzene	ND	H	1.0	0.16	ug/L			01/06/25 13:42	1
1,3-Dichloropropane	ND	H	1.0	0.18	ug/L			01/06/25 13:42	1
1,4-Dichlorobenzene	ND	H	1.0	0.11	ug/L			01/06/25 13:42	1
1-Methylnaphthalene	ND	H	4.0	2.0	ug/L			01/06/25 13:42	1
2,2-Dichloropropane	ND	H	2.0	0.26	ug/L			01/06/25 13:42	1
2-Butanone	ND	H	10	2.0	ug/L			01/06/25 13:42	1
2-Chlorotoluene	ND	H	1.0	0.14	ug/L			01/06/25 13:42	1
2-Hexanone	ND	H	10	1.8	ug/L			01/06/25 13:42	1
2-Methylnaphthalene	ND	H	4.0	2.0	ug/L			01/06/25 13:42	1
4-Chlorotoluene	ND	H	1.0	0.13	ug/L			01/06/25 13:42	1
4-Isopropyltoluene	ND	H	1.0	0.20	ug/L			01/06/25 13:42	1
4-Methyl-2-pentanone	ND	H	10	1.5	ug/L			01/06/25 13:42	1
Acetone	ND	H	10	2.5	ug/L			01/06/25 13:42	1
Benzene	ND	H	1.0	0.23	ug/L			01/06/25 13:42	1
Bromobenzene	ND	H	1.0	0.28	ug/L			01/06/25 13:42	1
Bromodichloromethane	ND	H	1.0	0.20	ug/L			01/06/25 13:42	1
Dibromochloromethane	ND	H	1.0	0.28	ug/L			01/06/25 13:42	1
Bromoform	ND	H	1.0	0.31	ug/L			01/06/25 13:42	1
Bromomethane	ND	H	3.0	1.0	ug/L			01/06/25 13:42	1
Carbon disulfide	ND	H	10	1.0	ug/L			01/06/25 13:42	1
Carbon tetrachloride	ND	H	1.0	0.18	ug/L			01/06/25 13:42	1
Chlorobenzene	ND	H	1.0	0.46	ug/L			01/06/25 13:42	1
Chloroethane	ND	H	2.0	0.38	ug/L			01/06/25 13:42	1
Chloroform	ND	H	1.0	0.25	ug/L			01/06/25 13:42	1
Chloromethane	ND	H	3.0	0.41	ug/L			01/06/25 13:42	1
cis-1,2-Dichloroethene	ND	H	1.0	0.39	ug/L			01/06/25 13:42	1
cis-1,3-Dichloropropene	ND	H	1.0	0.13	ug/L			01/06/25 13:42	1
Dibromomethane	ND	H	1.0	0.31	ug/L			01/06/25 13:42	1
Dichlorodifluoromethane	ND	H	1.0	0.73	ug/L			01/06/25 13:42	1
Ethylbenzene	ND	H	1.0	0.21	ug/L			01/06/25 13:42	1
Hexachlorobutadiene	ND	H	1.0	0.42	ug/L			01/06/25 13:42	1
Isopropylbenzene	ND	H	1.0	0.18	ug/L			01/06/25 13:42	1

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17460-1
Project/Site: Former Y

Client Sample ID: Trip Blank **Lab Sample ID: 885-17460-2**
Date Collected: 12/18/24 00:00 **Matrix: Water**
Date Received: 12/19/24 15:31

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND	H	1.0	0.39	ug/L			01/06/25 13:42	1
Methylene Chloride	ND	H	2.5	1.2	ug/L			01/06/25 13:42	1
n-Butylbenzene	ND	H	3.0	0.13	ug/L			01/06/25 13:42	1
N-Propylbenzene	ND	H	1.0	0.11	ug/L			01/06/25 13:42	1
Naphthalene	ND	H	2.0	0.24	ug/L			01/06/25 13:42	1
sec-Butylbenzene	ND	H	1.0	0.14	ug/L			01/06/25 13:42	1
Styrene	ND	H	1.0	0.17	ug/L			01/06/25 13:42	1
tert-Butylbenzene	ND	H	1.0	0.24	ug/L			01/06/25 13:42	1
Tetrachloroethene (PCE)	ND	H	1.0	0.18	ug/L			01/06/25 13:42	1
Toluene	ND	H	1.0	0.25	ug/L			01/06/25 13:42	1
trans-1,2-Dichloroethene	ND	H	1.0	0.19	ug/L			01/06/25 13:42	1
trans-1,3-Dichloropropene	ND	H	1.0	0.34	ug/L			01/06/25 13:42	1
Trichloroethene (TCE)	ND	H	1.0	0.20	ug/L			01/06/25 13:42	1
Trichlorofluoromethane	ND	H	1.0	0.16	ug/L			01/06/25 13:42	1
Vinyl chloride	ND	H	1.0	0.32	ug/L			01/06/25 13:42	1
Xylenes, Total	ND	H	1.5	0.37	ug/L			01/06/25 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*01/06/25 13:42*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*01/06/25 13:42*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*01/06/25 13:42*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*01/06/25 13:42*	*1*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17460-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-18828/5
Matrix: Water
Analysis Batch: 18828

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			01/06/25 11:13	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			01/06/25 11:13	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			01/06/25 11:13	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			01/06/25 11:13	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			01/06/25 11:13	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			01/06/25 11:13	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			01/06/25 11:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			01/06/25 11:13	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			01/06/25 11:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/06/25 11:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			01/06/25 11:13	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			01/06/25 11:13	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			01/06/25 11:13	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			01/06/25 11:13	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			01/06/25 11:13	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			01/06/25 11:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			01/06/25 11:13	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			01/06/25 11:13	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			01/06/25 11:13	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			01/06/25 11:13	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			01/06/25 11:13	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			01/06/25 11:13	1
2-Butanone	ND		10	2.0	ug/L			01/06/25 11:13	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			01/06/25 11:13	1
2-Hexanone	ND		10	1.8	ug/L			01/06/25 11:13	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			01/06/25 11:13	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			01/06/25 11:13	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			01/06/25 11:13	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			01/06/25 11:13	1
Acetone	ND		10	2.5	ug/L			01/06/25 11:13	1
Benzene	ND		1.0	0.23	ug/L			01/06/25 11:13	1
Bromobenzene	ND		1.0	0.28	ug/L			01/06/25 11:13	1
Bromodichloromethane	ND		1.0	0.20	ug/L			01/06/25 11:13	1
Dibromochloromethane	ND		1.0	0.28	ug/L			01/06/25 11:13	1
Bromoform	ND		1.0	0.31	ug/L			01/06/25 11:13	1
Bromomethane	ND		3.0	1.0	ug/L			01/06/25 11:13	1
Carbon disulfide	ND		10	1.0	ug/L			01/06/25 11:13	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			01/06/25 11:13	1
Chlorobenzene	ND		1.0	0.46	ug/L			01/06/25 11:13	1
Chloroethane	ND		2.0	0.38	ug/L			01/06/25 11:13	1
Chloroform	ND		1.0	0.25	ug/L			01/06/25 11:13	1
Chloromethane	ND		3.0	0.41	ug/L			01/06/25 11:13	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			01/06/25 11:13	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			01/06/25 11:13	1
Dibromomethane	ND		1.0	0.31	ug/L			01/06/25 11:13	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			01/06/25 11:13	1
Ethylbenzene	ND		1.0	0.21	ug/L			01/06/25 11:13	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			01/06/25 11:13	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-18828/5
Matrix: Water
Analysis Batch: 18828

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.18	ug/L			01/06/25 11:13	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			01/06/25 11:13	1
Methylene Chloride	ND		2.5	1.2	ug/L			01/06/25 11:13	1
n-Butylbenzene	ND		3.0	0.13	ug/L			01/06/25 11:13	1
N-Propylbenzene	ND		1.0	0.11	ug/L			01/06/25 11:13	1
Naphthalene	ND		2.0	0.24	ug/L			01/06/25 11:13	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			01/06/25 11:13	1
Styrene	ND		1.0	0.17	ug/L			01/06/25 11:13	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			01/06/25 11:13	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			01/06/25 11:13	1
Toluene	ND		1.0	0.25	ug/L			01/06/25 11:13	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			01/06/25 11:13	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			01/06/25 11:13	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			01/06/25 11:13	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			01/06/25 11:13	1
Vinyl chloride	ND		1.0	0.32	ug/L			01/06/25 11:13	1
Xylenes, Total	ND		1.5	0.37	ug/L			01/06/25 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*01/06/25 11:13*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*01/06/25 11:13*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*01/06/25 11:13*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*01/06/25 11:13*	*1*

Lab Sample ID: LCS 885-18828/4
Matrix: Water
Analysis Batch: 18828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	19.6		ug/L		97	70 - 130		
Benzene			20.1	19.8		ug/L		98	70 - 130		
Chlorobenzene			20.1	22.2		ug/L		111	70 - 130		
Toluene			20.2	20.9		ug/L		104	70 - 130		
Trichloroethene (TCE)			20.2	19.2		ug/L		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17460-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-18536/3-A
Matrix: Water
Analysis Batch: 18738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18536

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0080	ug/L		12/30/24 08:14	01/02/25 21:39	1

Lab Sample ID: LCS 885-18536/4-A
Matrix: Water
Analysis Batch: 18738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18536

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.100	0.110		ug/L		110	70 - 130

Lab Sample ID: LCSD 885-18536/5-A
Matrix: Water
Analysis Batch: 18738

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 18536

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.100	0.115		ug/L		115	70 - 130	5	20

Lab Sample ID: MRL 885-18536/1-A
Matrix: Water
Analysis Batch: 18738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18536

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0100	0.0139		ug/L		139	60 - 140

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-17460-1

GC/MS VOA

Analysis Batch: 18828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17460-1	BW-6	Total/NA	Water	8260B	
885-17460-2	Trip Blank	Total/NA	Water	8260B	
MB 885-18828/5	Method Blank	Total/NA	Water	8260B	
LCS 885-18828/4	Lab Control Sample	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 18536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17460-1	BW-6	Total/NA	Water	8011	
MB 885-18536/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-18536/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 885-18536/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MRL 885-18536/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 18738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17460-1	BW-6	Total/NA	Water	8011	18536
MB 885-18536/3-A	Method Blank	Total/NA	Water	8011	18536
LCS 885-18536/4-A	Lab Control Sample	Total/NA	Water	8011	18536
LCSD 885-18536/5-A	Lab Control Sample Dup	Total/NA	Water	8011	18536
MRL 885-18536/1-A	Lab Control Sample	Total/NA	Water	8011	18536

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-17460-1
Project/Site: Former Y

Client Sample ID: BW-6
Lab Sample ID: 885-17460-1
Date Collected: 12/18/24 16:35
Matrix: Water
Date Received: 12/19/24 15:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18828	CM	EET ALB	01/06/25 13:17
Total/NA	Prep	8011			18536	KR	EET ALB	12/30/24 08:14
Total/NA	Analysis	8011		1	18738	KR	EET ALB	01/03/25 01:25

Client Sample ID: Trip Blank
Lab Sample ID: 885-17460-2
Date Collected: 12/18/24 00:00
Matrix: Water
Date Received: 12/19/24 15:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	18828	CM	EET ALB	01/06/25 13:42

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17460-1
Project/Site: Former Y

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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
8011	8011	Water	1,2-Dibromoethane (EDB)
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-17460-1
Project/Site: Former Y

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-25-25

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
8011	8011	Water	1,2-Dibromoethane (EDB)

Chain-of-Custody Record

Client: DBSA

Mailing Address: 6020 Academy Rd 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

Project Manager: Grace Herrmann

Sampler:

On Ice: ☑ Yes ☐ No

# of Coolers: 1 mojo

Cooler Temp(including CF): 2.4 to 2.4 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 871(
Tel. 505-345-3975 Fax 505-345-4107

885-17460 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	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)						
12-18-24	16:35	aq	BW-6	5VOAs	3HCL, 250TH					X				X								
~~—~~	~~—~~	~~aq~~	~~BW-7~~	~~5VOAs~~	~~3HCL 250TH~~				~~X~~				~~X~~									
			Trip blank																			
			Rec 12-20-24																			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
12/19/24	1731	Aaron Kilgaani		CDO	12-19-24	15:31
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.

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-17460-1

Login Number: 17460

List Source: Eurofins Albuquerque

List Number: 1

Creator: Dominguez, Desiree

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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1 2 3 4 5 6 7 8 9 10 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Grace Herrmann
Daniel B. Stephens & Associates Inc.
6020 Academy Road NE
Suite 100
Albuquerque, New Mexico 87109

Generated 2/7/2025 8:58:38 AM

JOB DESCRIPTION

Former Y

JOB NUMBER

885-18973-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

myEOL

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

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Qualifiers

GC/MS VOA

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.
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 885-18973-1 Eurofins Albuquerque

Job Narrative
885-18973-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 sample was received on 1/3/2025 2:46 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C.

Receipt Exceptions
analysis for 8260, 8011 were not included on the COC as received on 01/02/2025. Attempts made by login staff to contact client via email and voice message received no response. Containers have been waiting for follow-up action in the Login fridge. Samples are now out of hold, and client has aproved processing of samples at this time.

RW-2 (885-18973-1)

GC/MS VOA
Method 8260B: The following sample(s) was received out of hold. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: RW-2 (885-18973-1).

Method 8260B: The continuing calibration verification (CCV) associated with batch 885-20152 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8011: The following sample was prepared outside of preparation holding time due to needing to be re-extracted: RW-2 (885-18973-1).

Method 8011: The following sample was diluted due to the abundance of target analytes: RW-2 (885-18973-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-18973-1

Client Sample ID: RW-2
Date Collected: 01/03/25 07:40
Date Received: 01/03/25 14:46

Lab Sample ID: 885-18973-1
Matrix: Water

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H	5.0	1.3	ug/L			01/29/25 14:25	5
1,1,1-Trichloroethane	ND	H	5.0	0.76	ug/L			01/29/25 14:25	5
1,1,2,2-Tetrachloroethane	ND	H	10	2.1	ug/L			01/29/25 14:25	5
1,1,2-Trichloroethane	ND	H	5.0	0.99	ug/L			01/29/25 14:25	5
1,1-Dichloroethane	ND	H	5.0	1.5	ug/L			01/29/25 14:25	5
1,1-Dichloroethene	ND	H	5.0	1.0	ug/L			01/29/25 14:25	5
1,1-Dichloropropene	ND	H	5.0	0.90	ug/L			01/29/25 14:25	5
1,2,3-Trichlorobenzene	ND	H	5.0	1.2	ug/L			01/29/25 14:25	5
1,2,3-Trichloropropane	ND	H	10	0.90	ug/L			01/29/25 14:25	5
1,2,4-Trichlorobenzene	ND	H	5.0	2.0	ug/L			01/29/25 14:25	5
1,2,4-Trimethylbenzene	**1900**	**H**	50	6.1	ug/L			01/31/25 15:15	50
1,2-Dibromo-3-Chloropropane	ND	H	10	3.7	ug/L			01/29/25 14:25	5
1,2-Dibromoethane (EDB)	**19**	**H**	5.0	1.5	ug/L			01/29/25 14:25	5
1,2-Dichlorobenzene	ND	H	5.0	0.77	ug/L			01/29/25 14:25	5
1,2-Dichloroethane (EDC)	**150**	**H**	5.0	1.5	ug/L			01/29/25 14:25	5
1,2-Dichloropropane	ND	H	5.0	1.0	ug/L			01/29/25 14:25	5
1,3,5-Trimethylbenzene	**510**	**H**	50	9.1	ug/L			01/31/25 15:15	50
1,3-Dichlorobenzene	ND	H	5.0	0.81	ug/L			01/29/25 14:25	5
1,3-Dichloropropane	ND	H	5.0	0.90	ug/L			01/29/25 14:25	5
1,4-Dichlorobenzene	ND	H	5.0	0.55	ug/L			01/29/25 14:25	5
1-Methylnaphthalene	**86**	**H**	20	10	ug/L			01/29/25 14:25	5
2,2-Dichloropropane	ND	H	10	1.3	ug/L			01/29/25 14:25	5
2-Butanone	ND	H	50	10	ug/L			01/29/25 14:25	5
2-Chlorotoluene	ND	H	5.0	0.70	ug/L			01/29/25 14:25	5
2-Hexanone	**100**	**H**	50	9.0	ug/L			01/29/25 14:25	5
2-Methylnaphthalene	**160**	**H**	20	10	ug/L			01/29/25 14:25	5
4-Chlorotoluene	ND	H	5.0	0.67	ug/L			01/29/25 14:25	5
4-Isopropyltoluene	**17**	**H**	5.0	1.0	ug/L			01/29/25 14:25	5
4-Methyl-2-pentanone	ND	H	50	7.5	ug/L			01/29/25 14:25	5
Acetone	ND	H	50	13	ug/L			01/29/25 14:25	5
Benzene	**510**	**H**	50	11	ug/L			01/31/25 15:15	50
Bromobenzene	ND	H	5.0	1.4	ug/L			01/29/25 14:25	5
Bromodichloromethane	ND	H	5.0	1.0	ug/L			01/29/25 14:25	5
Dibromochloromethane	ND	H	5.0	1.4	ug/L			01/29/25 14:25	5
Bromoform	ND	H	5.0	1.6	ug/L			01/29/25 14:25	5
Bromomethane	ND	H	15	5.0	ug/L			01/29/25 14:25	5
Carbon disulfide	ND	H	50	5.0	ug/L			01/29/25 14:25	5
Carbon tetrachloride	ND	H	5.0	0.90	ug/L			01/29/25 14:25	5
Chlorobenzene	ND	H	5.0	2.3	ug/L			01/29/25 14:25	5
Chloroethane	ND	H	10	1.9	ug/L			01/29/25 14:25	5
Chloroform	ND	H	5.0	1.3	ug/L			01/29/25 14:25	5
Chloromethane	ND	H	15	2.1	ug/L			01/29/25 14:25	5
cis-1,2-Dichloroethene	ND	H	5.0	1.9	ug/L			01/29/25 14:25	5
cis-1,3-Dichloropropene	ND	H	5.0	0.65	ug/L			01/29/25 14:25	5
Dibromomethane	ND	H	5.0	1.5	ug/L			01/29/25 14:25	5
Dichlorodifluoromethane	ND	H	5.0	3.7	ug/L			01/29/25 14:25	5
Ethylbenzene	**510**	**H**	50	11	ug/L			01/31/25 15:15	50
Hexachlorobutadiene	ND	H	5.0	2.1	ug/L			01/29/25 14:25	5
Isopropylbenzene	**78**	**H**	5.0	0.91	ug/L			01/29/25 14:25	5

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-18973-1
Project/Site: Former Y

Client Sample ID: RW-2 **Lab Sample ID: 885-18973-1**
Date Collected: 01/03/25 07:40 **Matrix: Water**
Date Received: 01/03/25 14:46

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND	H	5.0	2.0	ug/L			01/29/25 14:25	5
Methylene Chloride	ND	H	13	6.2	ug/L			01/29/25 14:25	5
n-Butylbenzene	**25**	**H**	15	0.63	ug/L			01/29/25 14:25	5
N-Propylbenzene	**140**	**H**	5.0	0.55	ug/L			01/29/25 14:25	5
Naphthalene	**280**	**H**	10	1.2	ug/L			01/29/25 14:25	5
sec-Butylbenzene	**17**	**H**	5.0	0.72	ug/L			01/29/25 14:25	5
Styrene	**0.96**	**J H**	5.0	0.85	ug/L			01/29/25 14:25	5
tert-Butylbenzene	ND	H	5.0	1.2	ug/L			01/29/25 14:25	5
Tetrachloroethene (PCE)	ND	H	5.0	0.89	ug/L			01/29/25 14:25	5
Toluene	**320**	**H**	5.0	1.3	ug/L			01/29/25 14:25	5
trans-1,2-Dichloroethene	ND	H	5.0	0.97	ug/L			01/29/25 14:25	5
trans-1,3-Dichloropropene	ND	H	5.0	1.7	ug/L			01/29/25 14:25	5
Trichloroethene (TCE)	ND	H	5.0	1.0	ug/L			01/29/25 14:25	5
Trichlorofluoromethane	ND	H	5.0	0.79	ug/L			01/29/25 14:25	5
Vinyl chloride	ND	H	5.0	1.6	ug/L			01/29/25 14:25	5
Xylenes, Total	**5500**	**H**	75	19	ug/L			01/31/25 15:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*01/29/25 14:25*	*5*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*01/31/25 15:15*	*50*
Toluene-d8 (Surr)	*100*		*70 - 130*		*01/29/25 14:25*	*5*
Toluene-d8 (Surr)	*99*		*70 - 130*		*01/31/25 15:15*	*50*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*01/29/25 14:25*	*5*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*01/31/25 15:15*	*50*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*01/29/25 14:25*	*5*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*01/31/25 15:15*	*50*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	**24**	**H D**	4.7	3.8	ug/L		01/30/25 08:39	02/05/25 17:21	500

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-20020/4
Matrix: Water
Analysis Batch: 20020

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			01/29/25 13:57	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			01/29/25 13:57	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			01/29/25 13:57	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			01/29/25 13:57	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			01/29/25 13:57	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			01/29/25 13:57	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			01/29/25 13:57	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			01/29/25 13:57	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			01/29/25 13:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/29/25 13:57	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			01/29/25 13:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			01/29/25 13:57	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			01/29/25 13:57	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			01/29/25 13:57	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			01/29/25 13:57	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			01/29/25 13:57	1
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			01/29/25 13:57	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			01/29/25 13:57	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			01/29/25 13:57	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			01/29/25 13:57	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			01/29/25 13:57	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			01/29/25 13:57	1
2-Butanone	ND		10	2.0	ug/L			01/29/25 13:57	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			01/29/25 13:57	1
2-Hexanone	ND		10	1.8	ug/L			01/29/25 13:57	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			01/29/25 13:57	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			01/29/25 13:57	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			01/29/25 13:57	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			01/29/25 13:57	1
Acetone	ND		10	2.5	ug/L			01/29/25 13:57	1
Benzene	ND		1.0	0.23	ug/L			01/29/25 13:57	1
Bromobenzene	ND		1.0	0.28	ug/L			01/29/25 13:57	1
Bromodichloromethane	ND		1.0	0.20	ug/L			01/29/25 13:57	1
Dibromochloromethane	ND		1.0	0.28	ug/L			01/29/25 13:57	1
Bromoform	ND		1.0	0.31	ug/L			01/29/25 13:57	1
Bromomethane	ND		3.0	1.0	ug/L			01/29/25 13:57	1
Carbon disulfide	ND		10	1.0	ug/L			01/29/25 13:57	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			01/29/25 13:57	1
Chlorobenzene	ND		1.0	0.46	ug/L			01/29/25 13:57	1
Chloroethane	ND		2.0	0.38	ug/L			01/29/25 13:57	1
Chloroform	ND		1.0	0.25	ug/L			01/29/25 13:57	1
Chloromethane	ND		3.0	0.41	ug/L			01/29/25 13:57	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			01/29/25 13:57	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			01/29/25 13:57	1
Dibromomethane	ND		1.0	0.31	ug/L			01/29/25 13:57	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			01/29/25 13:57	1
Ethylbenzene	ND		1.0	0.21	ug/L			01/29/25 13:57	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			01/29/25 13:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-20020/4
Matrix: Water
Analysis Batch: 20020

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.18	ug/L			01/29/25 13:57	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			01/29/25 13:57	1
Methylene Chloride	ND		2.5	1.2	ug/L			01/29/25 13:57	1
n-Butylbenzene	ND		3.0	0.13	ug/L			01/29/25 13:57	1
N-Propylbenzene	ND		1.0	0.11	ug/L			01/29/25 13:57	1
Naphthalene	ND		2.0	0.24	ug/L			01/29/25 13:57	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			01/29/25 13:57	1
Styrene	ND		1.0	0.17	ug/L			01/29/25 13:57	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			01/29/25 13:57	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			01/29/25 13:57	1
Toluene	ND		1.0	0.25	ug/L			01/29/25 13:57	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			01/29/25 13:57	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			01/29/25 13:57	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			01/29/25 13:57	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			01/29/25 13:57	1
Vinyl chloride	ND		1.0	0.32	ug/L			01/29/25 13:57	1
Xylenes, Total	ND		1.5	0.37	ug/L			01/29/25 13:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*01/29/25 13:57*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*01/29/25 13:57*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*01/29/25 13:57*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*01/29/25 13:57*	*1*

Lab Sample ID: LCS 885-20020/3
Matrix: Water
Analysis Batch: 20020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.1	22.4		ug/L		111	70 - 130		
Benzene			20.1	23.7		ug/L		118	70 - 130		
Chlorobenzene			20.1	21.7		ug/L		108	70 - 130		
Toluene			20.2	21.6		ug/L		107	70 - 130		
Trichloroethene (TCE)			20.2	20.9		ug/L		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*

Lab Sample ID: 885-18973-1 MS
Matrix: Water
Analysis Batch: 20020

Client Sample ID: RW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene	ND	H	101	110		ug/L		109	70 - 130		
Benzene	600	E H	100	711	E 4	ug/L		108	70 - 130		

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 885-18973-1 MS
Matrix: Water
Analysis Batch: 20020

Client Sample ID: RW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	ND	H	100	114		ug/L		114	70 - 130
Toluene	320	H	101	435		ug/L		111	70 - 130
Trichloroethene (TCE)	ND	H	101	107		ug/L		106	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*

Lab Sample ID: 885-18973-1 MSD
Matrix: Water
Analysis Batch: 20020

Client Sample ID: RW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	ND	H	101	105		ug/L		104	70 - 130	5	20
Benzene	600	E H	100	673	E 4	ug/L		71	70 - 130	5	20
Chlorobenzene	ND	H	100	106		ug/L		106	70 - 130	7	20
Toluene	320	H	101	409		ug/L		85	70 - 130	6	20
Trichloroethene (TCE)	ND	H	101	102		ug/L		101	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*112*		*70 - 130*

Lab Sample ID: MB 885-20152/6
Matrix: Water
Analysis Batch: 20152

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.27	ug/L			01/31/25 13:20	1
1,1,1-Trichloroethane	ND		1.0	0.15	ug/L			01/31/25 13:20	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.41	ug/L			01/31/25 13:20	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			01/31/25 13:20	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			01/31/25 13:20	1
1,1-Dichloroethene	ND		1.0	0.20	ug/L			01/31/25 13:20	1
1,1-Dichloropropene	ND		1.0	0.18	ug/L			01/31/25 13:20	1
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L			01/31/25 13:20	1
1,2,3-Trichloropropane	ND		2.0	0.18	ug/L			01/31/25 13:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			01/31/25 13:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.12	ug/L			01/31/25 13:20	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.74	ug/L			01/31/25 13:20	1
1,2-Dibromoethane (EDB)	ND		1.0	0.30	ug/L			01/31/25 13:20	1
1,2-Dichlorobenzene	ND		1.0	0.15	ug/L			01/31/25 13:20	1
1,2-Dichloroethane (EDC)	ND		1.0	0.30	ug/L			01/31/25 13:20	1
1,2-Dichloropropane	ND		1.0	0.20	ug/L			01/31/25 13:20	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-20152/6
Matrix: Water
Analysis Batch: 20152

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0	0.18	ug/L			01/31/25 13:20	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/L			01/31/25 13:20	1
1,3-Dichloropropane	ND		1.0	0.18	ug/L			01/31/25 13:20	1
1,4-Dichlorobenzene	ND		1.0	0.11	ug/L			01/31/25 13:20	1
1-Methylnaphthalene	ND		4.0	2.0	ug/L			01/31/25 13:20	1
2,2-Dichloropropane	ND		2.0	0.26	ug/L			01/31/25 13:20	1
2-Butanone	ND		10	2.0	ug/L			01/31/25 13:20	1
2-Chlorotoluene	ND		1.0	0.14	ug/L			01/31/25 13:20	1
2-Hexanone	ND		10	1.8	ug/L			01/31/25 13:20	1
2-Methylnaphthalene	ND		4.0	2.0	ug/L			01/31/25 13:20	1
4-Chlorotoluene	ND		1.0	0.13	ug/L			01/31/25 13:20	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			01/31/25 13:20	1
4-Methyl-2-pentanone	ND		10	1.5	ug/L			01/31/25 13:20	1
Acetone	ND		10	2.5	ug/L			01/31/25 13:20	1
Benzene	ND		1.0	0.23	ug/L			01/31/25 13:20	1
Bromobenzene	ND		1.0	0.28	ug/L			01/31/25 13:20	1
Bromodichloromethane	ND		1.0	0.20	ug/L			01/31/25 13:20	1
Dibromochloromethane	ND		1.0	0.28	ug/L			01/31/25 13:20	1
Bromoform	ND		1.0	0.31	ug/L			01/31/25 13:20	1
Bromomethane	ND		3.0	1.0	ug/L			01/31/25 13:20	1
Carbon disulfide	ND		10	1.0	ug/L			01/31/25 13:20	1
Carbon tetrachloride	ND		1.0	0.18	ug/L			01/31/25 13:20	1
Chlorobenzene	ND		1.0	0.46	ug/L			01/31/25 13:20	1
Chloroethane	ND		2.0	0.38	ug/L			01/31/25 13:20	1
Chloroform	ND		1.0	0.25	ug/L			01/31/25 13:20	1
Chloromethane	ND		3.0	0.41	ug/L			01/31/25 13:20	1
cis-1,2-Dichloroethene	ND		1.0	0.39	ug/L			01/31/25 13:20	1
cis-1,3-Dichloropropene	ND		1.0	0.13	ug/L			01/31/25 13:20	1
Dibromomethane	ND		1.0	0.31	ug/L			01/31/25 13:20	1
Dichlorodifluoromethane	ND		1.0	0.73	ug/L			01/31/25 13:20	1
Ethylbenzene	ND		1.0	0.21	ug/L			01/31/25 13:20	1
Hexachlorobutadiene	ND		1.0	0.42	ug/L			01/31/25 13:20	1
Isopropylbenzene	ND		1.0	0.18	ug/L			01/31/25 13:20	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	0.39	ug/L			01/31/25 13:20	1
Methylene Chloride	ND		2.5	1.2	ug/L			01/31/25 13:20	1
n-Butylbenzene	ND		3.0	0.13	ug/L			01/31/25 13:20	1
N-Propylbenzene	ND		1.0	0.11	ug/L			01/31/25 13:20	1
Naphthalene	ND		2.0	0.24	ug/L			01/31/25 13:20	1
sec-Butylbenzene	ND		1.0	0.14	ug/L			01/31/25 13:20	1
Styrene	ND		1.0	0.17	ug/L			01/31/25 13:20	1
tert-Butylbenzene	ND		1.0	0.24	ug/L			01/31/25 13:20	1
Tetrachloroethene (PCE)	ND		1.0	0.18	ug/L			01/31/25 13:20	1
Toluene	ND		1.0	0.25	ug/L			01/31/25 13:20	1
trans-1,2-Dichloroethene	ND		1.0	0.19	ug/L			01/31/25 13:20	1
trans-1,3-Dichloropropene	ND		1.0	0.34	ug/L			01/31/25 13:20	1
Trichloroethene (TCE)	ND		1.0	0.20	ug/L			01/31/25 13:20	1
Trichlorofluoromethane	ND		1.0	0.16	ug/L			01/31/25 13:20	1
Vinyl chloride	ND		1.0	0.32	ug/L			01/31/25 13:20	1
Xylenes, Total	ND		1.5	0.37	ug/L			01/31/25 13:20	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*01/31/25 13:20*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*01/31/25 13:20*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*01/31/25 13:20*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*01/31/25 13:20*	*1*

Lab Sample ID: LCS 885-20152/5
Matrix: Water
Analysis Batch: 20152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.1	19.2		ug/L		95	70 - 130
Benzene	20.1	20.2		ug/L		100	70 - 130
Chlorobenzene	20.1	20.3		ug/L		101	70 - 130
Toluene	20.2	20.2		ug/L		100	70 - 130
Trichloroethene (TCE)	20.2	18.6		ug/L		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-20065/3-A
Matrix: Water
Analysis Batch: 20325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20065

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.010	0.0080	ug/L		01/30/25 08:39	02/05/25 16:38	1

Lab Sample ID: LCS 885-20065/4-A
Matrix: Water
Analysis Batch: 20325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20065

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.100	0.0719		ug/L		72	70 - 130

Lab Sample ID: LCSD 885-20065/5-A
Matrix: Water
Analysis Batch: 20325

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20065

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.100	0.0803		ug/L		80	70 - 130	11	20

Lab Sample ID: MRL 885-20065/1-A
Matrix: Water
Analysis Batch: 20325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20065

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0100	0.0116		ug/L		116	60 - 140

QC Association Summary

Client: Daniel B. Stephens & Associates Inc.
Project/Site: Former Y

Job ID: 885-18973-1

GC/MS VOA

Analysis Batch: 20020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18973-1	RW-2	Total/NA	Water	8260B	
MB 885-20020/4	Method Blank	Total/NA	Water	8260B	
LCS 885-20020/3	Lab Control Sample	Total/NA	Water	8260B	
885-18973-1 MS	RW-2	Total/NA	Water	8260B	
885-18973-1 MSD	RW-2	Total/NA	Water	8260B	

Analysis Batch: 20152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18973-1	RW-2	Total/NA	Water	8260B	
MB 885-20152/6	Method Blank	Total/NA	Water	8260B	
LCS 885-20152/5	Lab Control Sample	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 20065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18973-1	RW-2	Total/NA	Water	8011	
MB 885-20065/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-20065/4-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 885-20065/5-A	Lab Control Sample Dup	Total/NA	Water	8011	
MRL 885-20065/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 20325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18973-1	RW-2	Total/NA	Water	8011	20065
MB 885-20065/3-A	Method Blank	Total/NA	Water	8011	20065
LCS 885-20065/4-A	Lab Control Sample	Total/NA	Water	8011	20065
LCSD 885-20065/5-A	Lab Control Sample Dup	Total/NA	Water	8011	20065
MRL 885-20065/1-A	Lab Control Sample	Total/NA	Water	8011	20065

Lab Chronicle

Client: Daniel B. Stephens & Associates Inc.
Job ID: 885-18973-1
Project/Site: Former Y

Client Sample ID: RW-2
Lab Sample ID: 885-18973-1

Date Collected: 01/03/25 07:40
Matrix: Water

Date Received: 01/03/25 14:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	20020	RA	EET ALB	01/29/25 14:25
Total/NA	Analysis	8260B		50	20152	CM	EET ALB	01/31/25 15:15
Total/NA	Prep	8011			20065	KR	EET ALB	01/30/25 08:39
Total/NA	Analysis	8011		500	20325	KR	EET ALB	02/05/25 17:21

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Daniel B. Stephens & Associates Inc. Job ID: 885-18973-1
Project/Site: Former Y

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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
8011	8011	Water	1,2-Dibromoethane (EDB)
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B		Water	1,2-Dichlorobenzene
8260B		Water	1,2-Dichloroethane (EDC)
8260B		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone
8260B		Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-25-25

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
8011	8011	Water	1,2-Dibromoethane (EDB)

Chain-of-Custody Record

Client: DBSA

Mailing Address: 6020 Academy Rd 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

Project Manager: Grace Herrmann

Sampler: T. Del Prete

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 0.6 + 0.4 = 1.0 (°C)

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

885-18973 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
1-3-25	07:40	gg	RW-2	5 VOA's	3HCL, 2SO4H	-1

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:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1-28-24	11:54	Teresa DP	Emc	COC	1-3-25	1446
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:
0.6 + 0.4 = 1.0 Yogs
Run out of hold

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.

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc. Job Number: 885-18973-1

Login Number: 18973 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Proctor, Nancy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Appendix E

Mass Removal Calculations

DBS&A
a Geo-Logic Company

DBS&A a Geo-Logic Company

Calculation Cover Sheet

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	1st GWM Report	TG	2/12/2024	GMH	2/16/2024	TG	2/16/2024

DBS&A a Geo-Logic Company

Calculation Sheet

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 (µg/L) [D]

3. Method

Methods for calculating air flow rates and hydrocarbon mass removal, destruction efficiency, and emission rates are provided below.

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 µg/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.

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 (µg/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}):

$$DE = (C_{inf} - C_{eff}) / (C_{inf}) \quad (3)$$

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.

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 (" H_2O). 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" H_2O

$$P_{actual} = P_{atm} - P_{vac} = 12.5\ psi - \frac{50"\ H_2O}{1} * \frac{1'H_2O}{12"\ H_2O} * \frac{1\ psi}{2.31'\ H_2O} = 10.70\ psi$$

$$Q_{acfm} = Q_{scfm} * \frac{P_{std}}{P_{actual}} * \frac{T_{actual}}{T_{std}} = 750\ scfm * \frac{14.7\ psi}{10.70\ psi} * \frac{530\ R}{530\ R} = 1{,}028\ acfm$$

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 (µg/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:

$$C_{std} = C_{lab} * \left(\frac{P_{std}}{P_{lab}} * \frac{T_{lab}}{T_{std}}\right) = 13{,}800\ \mu g/L * \left(\frac{14.7}{12.23} * \frac{530}{530}\right) = 16{,}587\ \mu g/L$$

Mass = Q_{scfm} * C_{std} * time = 750 scfm * 16,587 µg/L * 138 hr * (28.317 L/ft^3) * (60 min/hr) *

(1 pound / 454 grams) * (1 gram / 10^6 µg) = **Mass = 6,430 lb gasoline**

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:

Mass removed = V_{period} * C_{lab} =

91,800 gal * (8.5 mg/L) * 2.20x10^{-6} lb/mg * 3.8 L/gal**= Mass = 6.5 lb gasoline**

Total mass removed from both air and water phases of contamination:

Mass = 6,430 + 6.5 = 6,437 lb / 6 lb/gal = **Mass = 1,073 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_{std} = 847 ppmv * (4.16 µg/L per ppmv) = 3,524 µg/L

Mass = Q_{scfm} * C_{std} * time = 750 scfm * 3,524 µg/L * 138 hr * (28.317 L/ft^3) * (60 min/hr) *

(1 pound / 454 grams) * (1 gram / 10^6 µg) = **Mass = 1,366 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.

4.4 Destruction Efficiency

Calculate destruction efficiency using equation 3, assuming TPH (GRO) influent and effluent laboratory concentrations of 13,800 and 2,700 µg/L[B], respectively, from the November 9 sampling event:

DE = (C_{inf} - C_{eff}) / (C_{inf}) = (13,800 µg/L – 2,700 µg/L) / 13,800 µg/L = **DE = 80.4%**

Calculate destruction efficiency using equation 3, assuming TPH (GRO) influent and effluent laboratory concentrations of 9,800 and 220 µg/L[B], respectively, from the November 28 sampling event:

DE = (C_{inf} - C_{eff}) / (C_{inf}) = (9,800 µg/L – 220 µg/L) / 9,800 µg/L = **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:

$$C_{std} = C_{lab} * \left(\frac{P_{std}}{P_{lab}} * \frac{T_{lab}}{T_{std}}\right) = 2{,}700\ \mu g/L * \left(\frac{14.7}{12.23} * \frac{530}{530}\right) = 3{,}245\ \mu g/L$$

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):

Emissions = Q_{out} * C_{std} = 1,000 scfm * 3,245 µg/L * (28.317 L/ft^3) * (60 min/hr) *

(1 pound / 454 grams) * (1 gram / 10^6 µg) = **Emissions = 12.16 lb/hr**

Emissions = 12.16 lb/hr * (8760 hr/yr) * (1 ton/2000 lb) = **Emissions = 53.24 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 Oxidizer Hours (hr)	Run Time during period (hr)	Run Time during period (min)	Combined Well Vacuum (in Hg)	Combined Well Vacuum (in H_2O)	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
2/8/2024	8:40	2,300	191	11,478	5.0	68	725	1059	1,026	4,268	8,321,550	2,217	26,319	11.6	11.5
2/19/2024	14:43	2,568	268	16,080	5.1	69	729	1068	647	2,692	11,722,320	1,970	28,289	7.4	11.0
3/5/2024	SVE System Off due to Thermal Oxidizer Fault														
3/26/2024															
4/17/2024															
4/28/2024															
7/12/2024	7:52	2,633	65	3,888	3.5	48	777	1058	394	1,637	3,020,976	309	28,598	4.8	10.9
7/29/2024	12:30	3,041	408	24,480	3.7	51	754	1037	750	3,119	18,457,920	3,594	32,192	8.8	10.6
8/14/2024	7:47	3,331	290	17,400	4.2	57	753	1056	975	4,055	13,102,200	3,317	35,508	11.4	10.7
8/26/2024	9:30	3,609	278	16,692	4.6	62	727	1040	687	2,856	12,135,084	2,164	37,672	7.8	10.5
9/12/2024	7:06	3,941	332	19,920	4.8	65	739	1066	399	1,658	14,720,880	1,523	39,195	4.6	10.0
9/26/2024	12:41	4,254	313	18,780	5.4	74	508	757	640	2,662	9,540,240	1,586	40,781	5.1	9.6
10/8/2024	12:45	4,881	627	37,620	5.4	73	513	763	562	2,340	19,299,060	2,819	43,600	4.5	8.9
10/28/2024	8:00	5,346	465	27,900	5.0	68	535	781	719	2,990	14,926,500	2,786	46,386	6.0	8.7
11/11/2024	9:00	5,450	104	6,252	4.2	57	600	843	595	2,474	3,751,200	579	46,965	5.6	8.6
12/4/2024	10:00	5,639	189	11,328	4.3	58	576	811	396	1,647	6,524,928	671	47,636	3.6	8.5
12/18/2024	10:52	5,680	41	2,460	4.9	66	608	882	649	2,700	1,495,680	252	47,889	6.1	8.4
12/27/2024	11:30	5,845	165	9,900	4.8	65	583	842	1,560	6,490	5,771,700	2,338	50,227	14.2	8.6
1/2/2025	7:30	6,013	168	10,080	4.8	65	603	872	373	1,552	6,078,240	589	50,816	3.5	8.5
1/23/2025	13:20	6,358	345	20,700	5.3	72	584	866	919	3,823	12,088,800	2,885	53,701	8.4	8.5

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 H_2O = 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 Oxidizer Hours (hr)	Run Time (hr)	Run Time (min)	Combined Well Vacuum (in Hg)	Combined Well Vacuum (in H_2O)	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
2/8/2024	8:40	2,300	191	11,478	5	68	725	1059	14,000	16,827	8,321,550	8,742	78,917	45.7	34.4
2/19/2024	14:43	2,568	268	16,080	5	69	729	1068	6,700	8,053	11,722,320	5,893	84,810	22.0	33.1
3/5/2024	SVE System Off due to Thermal Oxidizer Fault														
3/26/2024															
4/17/2024															
4/28/2024															
7/12/2024	7:52	2,633	65	3,888	4	48	777	1058	7,200	8,654	3,020,976	1,632	86,442	25.2	32.9
7/29/2024	12:30	3,041	408	24,480	4	51	754	1037	5,600	6,731	18,457,920	7,756	94,198	19.0	31.0
8/14/2024	17:10	3,331	290	17,400	4	57	753	1056	4,700	5,649	13,102,200	4,621	98,819	15.9	29.7
8/30/2024	18:10	3,609	278	16,692	5	62	727	1040	1,800	2,164	12,135,084	1,639	100,458	5.9	27.9
9/12/2024	19:10	3,941	332	19,920	5	65	739	1066	3,100	3,726	14,720,880	3,424	103,882	10.3	26.4
9/26/2024	20:10	4,254	313	18,780	5	74	508	757	5,200	6,250	9,540,240	3,722	107,605	11.9	25.3
10/8/2024	20:10	4,881	627	37,620	5	73	513	763	2,340	2,812	19,299,060	3,388	110,993	5.4	22.8
10/28/2024	21:10	5,346	465	27,900	5	68	535	781	4,600	5,529	14,926,500	5,152	116,145	11.1	21.7
11/11/2024	22:10	5,450	104	6,252	4	57	600	843	5,300	6,370	3,751,200	1,492	117,637	14.3	21.6
12/4/2024	23:10	5,639	189	11,328	4	58	576	811	2,600	3,125	6,524,928	1,273	118,910	6.7	21.1
12/18/2024	0:10	5,680	41	2,460	5	66	608	882	2,700	3,245	1,495,680	303	119,213	7.4	21.0
12/27/2024	1:10	5,845	165	9,900	5	65	583	842	6,490	7,800	5,771,700	2,811	122,023	17.0	20.9
1/2/2025	2:10	6,013	168	10,080	5	65	603	872	3,500	4,207	6,078,240	1,596	123,620	9.5	20.6
1/23/2025	3:10	6,358	345	20,700	5	72	584	866	7,200	8,654	12,088,800	6,531	130,151	18.9	20.5

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
half the detection limit is used

hr = hours
min = minutes
in H_2O = 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
2/8/2024	8:40	1,083,365	58,541	4.2	1.6	1.5	2.84	76	0.4	0.8	12.62
2/19/2024	14:43	1,130,794	47,429	4.5	1.4	1.7	2.34	78	0.2	0.7	13.01
3/5/2024	15:10	1,225,700	94,906	0.35	<1.0	0.04	0.28	78	0.0	0.6	13.06
3/26/2024	8:00	1,313,500	87,800	0.71	<1.0	0.19	0.52	79	0.0	0.5	13.15
4/17/2024	14:10	1,439,700	126,200	2.0	<1.0	0.69	2.11	81	0.1	0.5	13.50
4/28/2024	7:30	1,488,845	49,145	3.2	1.1	1.1	1.77	83	0.2	0.5	13.80
7/12/2024	7:52	1,500,400	11,555	1.2	<1.0	0.41	0.12	83	0.0	0.3	13.81
7/29/2024	12:30	1,585,400	85,000	0.67	<1.0	0.04	0.48	83	0.0	0.3	13.89
8/14/2024	7:47	1,614,500	29,100	1.1	<1.0	0.15	0.27	84	0.0	0.3	13.94
8/26/2024	9:30	1,645,300	30,800	0.22	<1.0	<0.0225	0.06	84	0.0	0.3	13.95
9/12/2024	7:06	1,744,967	99,667	0.85	<1.0	0.15	0.71	84	0.0	0.3	14.07
9/26/2024	14:44	1,804,700	59,733	0.17	<1.0	0.009	0.085	84	0.0	0.3	14.08
10/8/2024	12:45	1,828,500	23,800	**0.025**	<1.0	<0.0045	0.005	84	0.0	0.2	14.08
10/28/2024	8:00	1,951,309	122,809	6.3	1.9	2.0	8.436	93	0.4	0.3	15.49
11/11/2024	9:00	2,057,200	105,891	8.4	3.6	2.8	10.645	104	0.8	0.3	17.26
12/4/2024	10:00	2,227,108	169,908	1.7	1.6	0.70	4.697	108	0.2	0.3	18.05
12/18/2024	10:52	2,337,139	110,031	3.0	<1.0	0.76	2.765	111	0.2	0.3	18.51

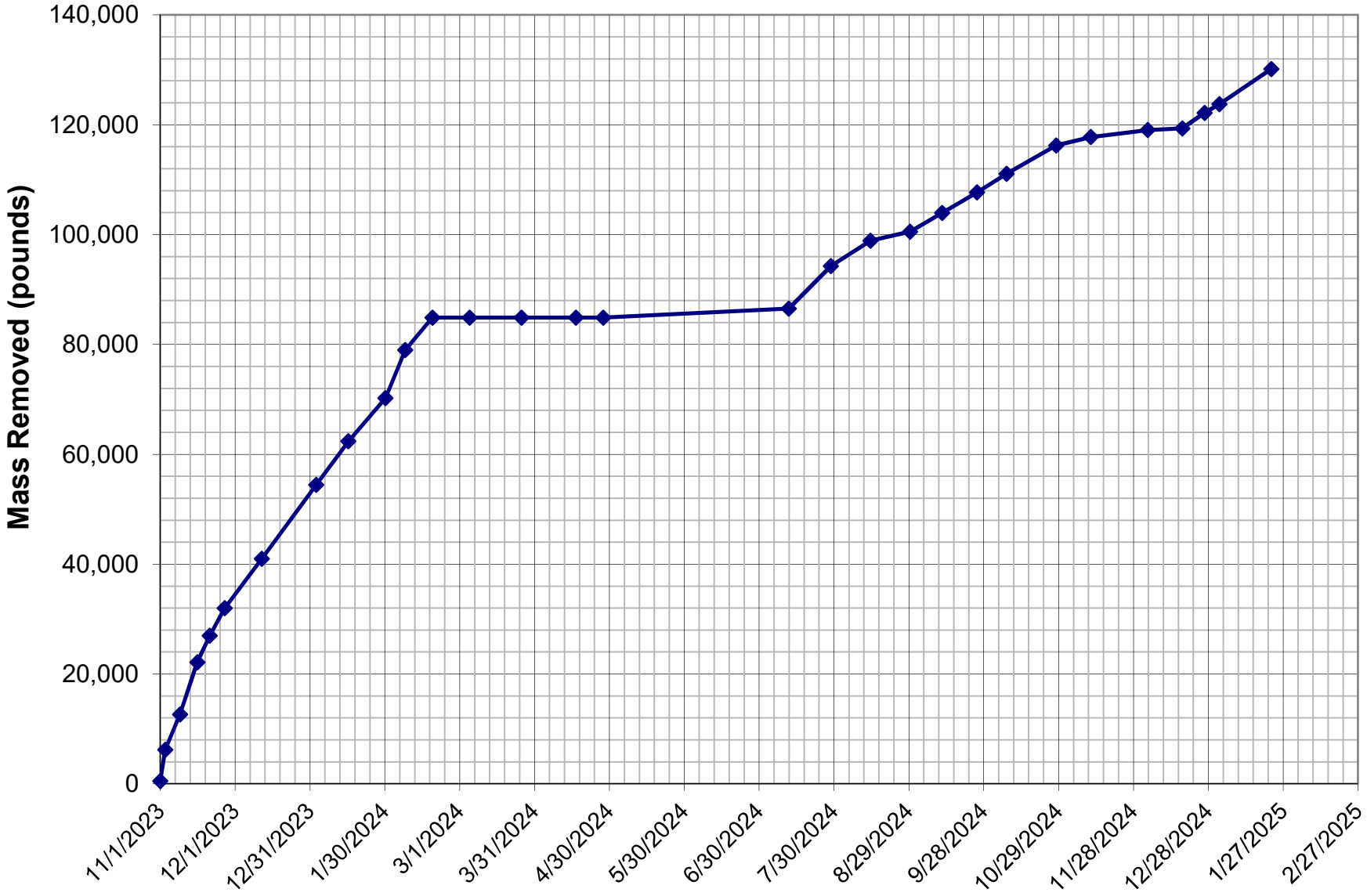
Former Y Station, Clovis New Mexico
Mass removal calculation (GW lab results)
System start date November 1, 2023
Raw water samples are collected prior to the oil-water separator

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)
1/2/2025	7:30	2,450,991	2,450,991	3.8	<1.0	1.34	78.027	189	5.2	0.4	31.51
1/23/2025	13:20	2,531,471	80,480	3.2	0.7	1.0	2.609	192	0.1	0.4	31.95

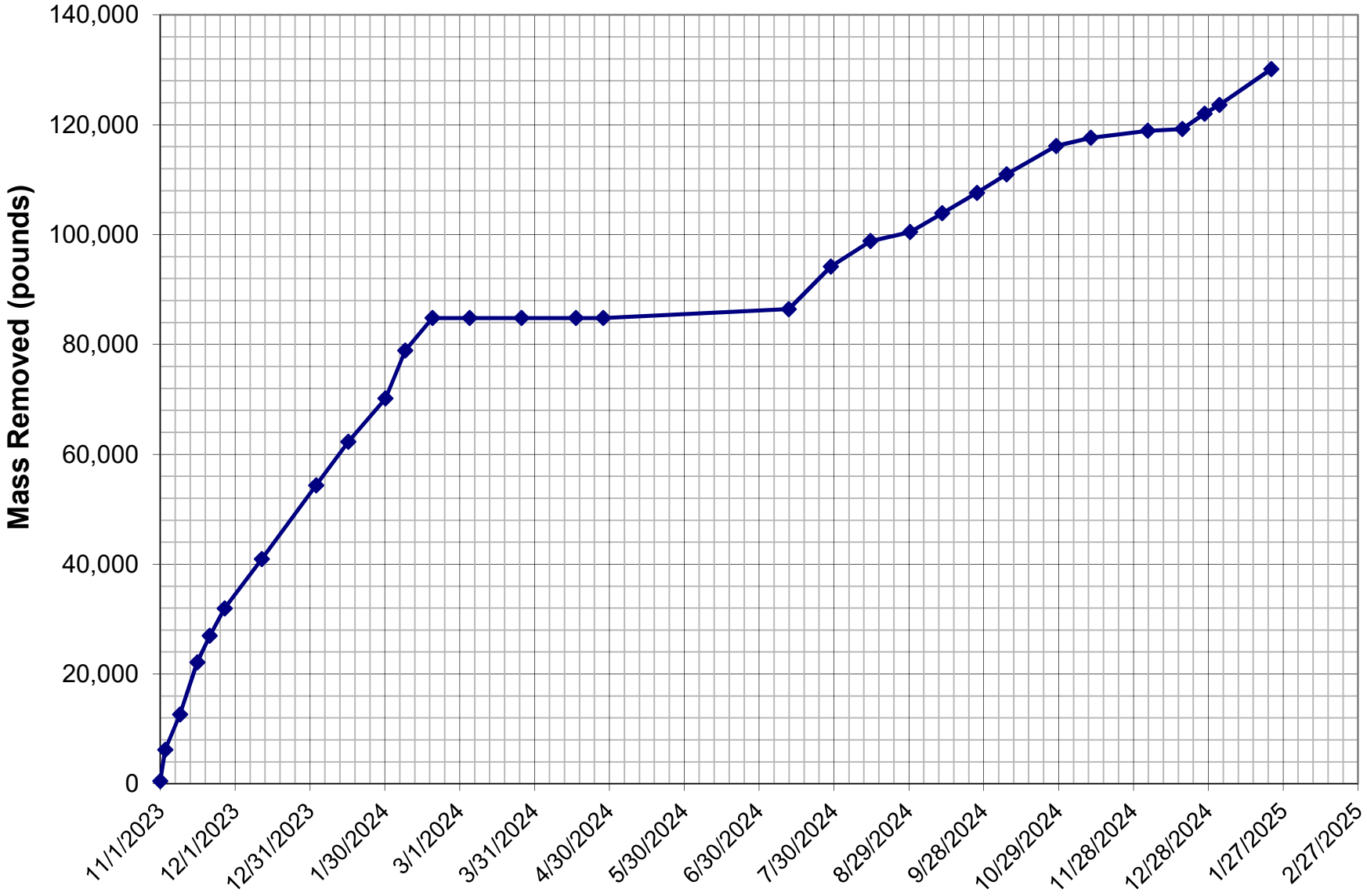
Notes
mg/L = miligrams per liter
lb= pounds
NA= Not analyzed

Conversions
2.20E-06 lb / mg
3.8 L / gallon
6 lb/ gallon (gasoline)

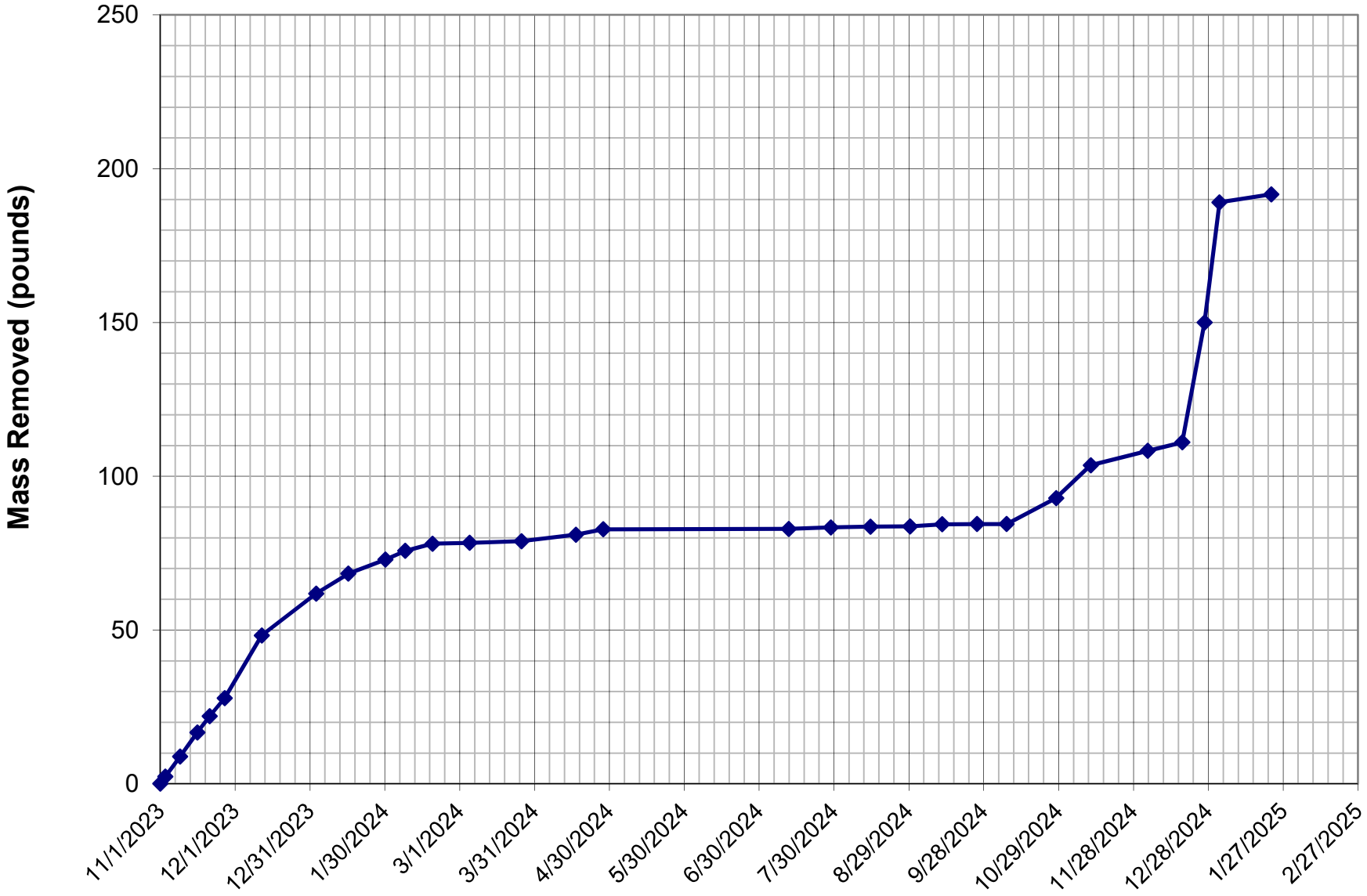
Mass Removal in Vapor and Groundwater Phases



Mass Removal in Vapor Phase



Mass Removal in Groundwater Phase



SVE System Emissions Summary
Based on Effluent Analytical Organic Chemistry Data for Soil Vapor
Former Y Station, Clovis, New Mexico

	Run Time	Benzene		Toluene		Ethylbenzene		Total Xylenes		TPH (GRO)	
Date	hr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
11/1/2023	4	0.675	2.958	0.720	3.155	0.068	0.296	0.212	0.927	29.26	128.2
11/3/2023	49	0.855	3.747	1.035	4.535	1.035	4.535	0.360	1.578	19.81	86.77
11/9/2023	138	0.445	1.950	1.531	6.705	0.131	0.576	0.567	2.485	12.16	53.24
11/16/2023	172	0.198	0.868	0.180	0.789	0.018	0.077	0.081	0.355	1.89	8.28
11/21/2023	117	0.108	0.473	0.068	0.296	0.005	0.024	0.018	0.081	0.72	3.16
11/27/2023	148	0.077	0.335	0.090	0.394	0.013	0.055	0.077	0.335	0.99	4.34
12/12/2023	330	0.037	0.164	0.023	0.099	0.002	0.007	0.005	0.024	0.25	1.08
1/3/2024	500	0.027	0.118	0.016	0.071	0.001	0.005	0.004	0.016	0.16	0.71
1/16/2024	293	0.031	0.134	0.028	0.124	0.002	0.009	0.009	0.039	0.33	1.46
1/31/2024	353	0.019	0.085	0.029	0.128	0.005	0.020	0.027	0.120	0.34	1.50
2/8/2024	191	0.017	0.073	0.042	0.185	0.009	0.039	0.054	0.237	0.50	2.17
2/19/2024	268	0.013	0.057	0.012	0.051	0.001	0.006	0.009	0.037	0.12	0.53
3/5/2024	SVE System Off										
3/26/2024											
4/17/2024											
4/28/2024											
7/12/2024	65	0.016	0.069	0.008	0.034	0.001	0.002	0.002	0.008	0.09	0.41
7/29/2024	408	0.015	0.067	0.009	0.039	0.001	0.003	0.003	0.011	0.09	0.41
8/14/2024	290	0.011	0.049	0.014	0.059	0.002	0.008	0.010	0.045	0.17	0.75
8/30/2024	278	0.005	0.022	0.006	0.028	0.001	0.005	0.006	0.028	0.09	0.37
9/12/2024	332	0.001	0.006	0.003	0.012	0.001	0.003	0.005	0.020	0.05	0.22
9/26/2024	313	0.002	0.008	0.002	0.009	0.001	0.003	0.004	0.019	0.04	0.16
10/8/2024	627	0.003	0.011	0.026	0.114	0.003	0.013	0.011	0.047	0.29	1.26
10/28/2024	465	0.002	0.011	0.023	0.103	0.006	0.028	0.036	0.160	0.24	1.06
11/11/2024	104	0.001	0.004	0.001	0.004	0.000	0.001	0.002	0.010	0.02	0.09
12/4/2024	189	0.001	0.006	0.009	0.037	0.003	0.012	0.015	0.067	0.10	0.43
12/18/2024	41	0.001	0.003	0.004	0.018	0.000	0.001	0.001	0.003	0.06	0.26
12/27/2024	165	0.002	0.008	0.008	0.034	0.003	0.012	0.017	0.073	0.13	0.55
1/2/2025	168	0.002	0.008	0.008	0.034	0.003	0.012	0.017	0.073	0.13	0.55

SVE System Emissions Summary
Based on Effluent Analytical Organic Chemistry Data for Soil Vapor
Former Y Station, Clovis, New Mexico

	Run Time	Benzene		Toluene		Ethylbenzene		Total Xylenes		TPH (GRO)	
Date	hr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
1/23/2025	345	0.001	0.003	0.000	0.001	0.000	0.001	0.000	0.002	0.01	0.05
Run time weighted average:		0.036	0.158	0.064	0.280	0.014	0.061	0.031	0.134	0.68	2.99
Total period average [a]:			0.026		0.048		0.008		0.043		0.56

TPH = Total petroleum hydrocarbons
GRO = Gasoline range organics
hr = hour
lb/hr = Pounds per hour
ton/yr = Tons per year
Italic = Laboratory result below reporting limit - emissions value calculated using half of the laboratory reporting limit

[a] Total period = 1/3/2024 to 12/31/24 (calendar year)

Notes: 1. NMED Air Quality Bureau Notice of Intent to Discharge required for any regulated air contaminant greater than 10 ton/yr. Permitting is based on emissions for a calendar year from start up.
2. System discharge air flow rate of 1,000 scfm used as a conservative estimate, including combustion blower air.

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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John Wiley & Sons, Inc.

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

[a]Data abridged from *U.S. Standard Atmosphere*, 1976, U.S. Government Printing Office, Washington, D.C.

linear interpolation
7,000 → 11.38 psi

Conversion unmasked

What is the relationship between µg/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 (µg/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., MW •n = g (equation one)

B. Ideal Gas Law: p•V = n•R•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 • atm/°K • mole), and T is gas temperature (°K)
(°K = °C + 273.15).

By definition, ppmv = µV/V = µL/L.

We are looking for relationship between mass (g) and volume (L). Substitute equation two into one for n:

g = MW • (P•V / R•T) (equation three)

Given R = 0.08205 L • atm/°K • mole, T = 293.15°K (@ 20°C), P = 1 atm, equation three becomes:

g = MW • V • [P/(R•T)] = MW • V • [1 / (0.08205 x 293.15)]

= MW • V / 24.05 (equation four)

Check units in equation four:

g = (g/mole) • L • [atm/ ((L •atm/°K • mole) • K°)]

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 = (MW/24.05) • L ppmv = ug/L / 4.16 gasoline

µg = (MW/24.05 • µL

µg/L = (MW/24.05) •µL/L

i.e., µg/L = (MW/24.05) • ppmv (equation five)

Let X = concentration in ppmv and Y = concentration in µg/L, and equation five becomes:

Y (µg/L) = (MW/24.05) • X (ppmv) (equation six)

ppb

Equation six converts soil vapor concentration from ppmv to µg/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 x 100 = 690 ug/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 Wellin[1], which shows that Q is dependent on the area of flow and density of air:

$$Q = K \cdot \frac{A}{\sqrt{\rho}} \qquad (1)$$

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 documentation[2] 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:

$$Q(SFCM) = CFM_{meter} \sqrt{\frac{P_{actual}}{P_{calibration}} \cdot \frac{T_{calibration}}{T_{actual}}} \qquad (2)$$

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:

$$ACFM = SCFM \ \frac{P_{standard}}{P_{actual}} \cdot \frac{T_{actual}}{T_{standard}} \qquad (3)$$

For completeness, the relationship between ACFM and CFM_{meter} is given by

$$ACFM = CFM_{meter} \sqrt{\frac{P_{standard}}{P_{actual}} \ \frac{T_{actual}}{T_{standard}}} \qquad (4)$$

Supporting documentation

Two Dwyer specification sheets for rotameters[2] (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 Wellin[1]

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 Wellin[1].

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_{meter} > SCFM.

In the design equation given in the AMEC calculation

$$Q = kA(gh)^{0.5} \qquad (5)$$

the fluid density, ρ(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 calculation[4] and the ACFM value in the AcuVac report[5] 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:

Actual Velocity = (Standard Velocity) $[(460 + T) / (460 + 70)] \times 29\ 92 / P_m$

or

Actual Velocity = (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 $fpm = 4005\sqrt{\Delta P\,(in.\,H_2O)}$ $\left(m/s = 1.29\sqrt{\Delta P\,(Pa)}\right)$ when the density of the air is 0.075 lb/ft^2 (0.366 kgs/m^3). 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/ft^2 (0.366 kgs/m^3). 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

DBS&A
a Geo-Logic Company

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.

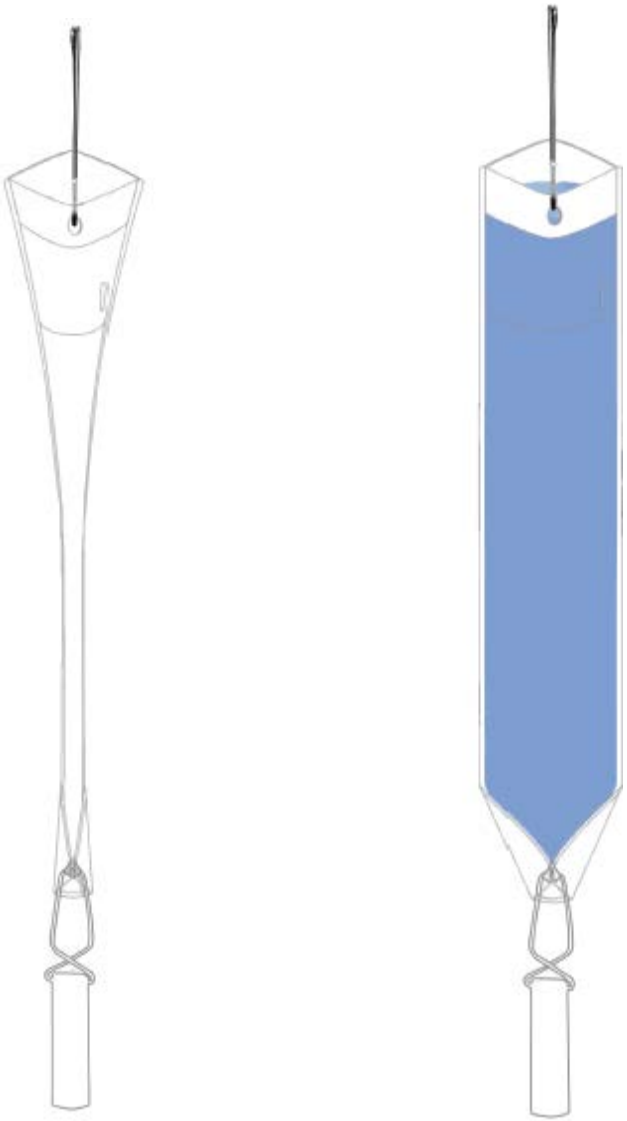
Immediately after collection, the sample containers will be placed on ice in an insulated cooler for delivery to the laboratory for analyses. Groundwater samples will be accompanied by full chain of custody documentation at all times.

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



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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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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.

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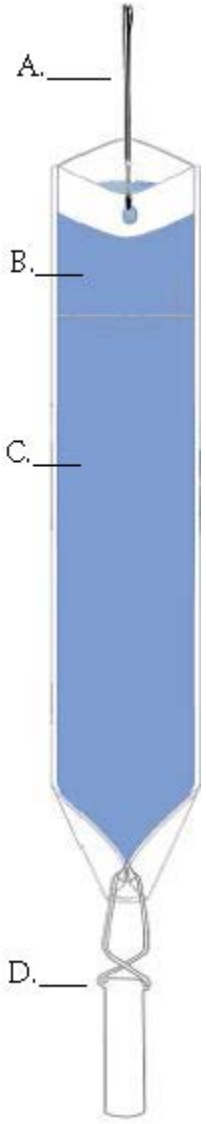
As with all groundwater sampling devices, HydraSleeves should not be used to collect groundwater samples from wells in which separate (non-aqueous) phase hydrocarbons (i.e., gasoline, diesel fuel or jet fuel) are present because of the possibility of incorporating some of the separate-phase hydrocarbon into the sample.

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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.

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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.
2-Inch HydraSleeves				
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"**
4-Inch HydraSleeves				
Standard 2.5 liter	~2 Liters	38”	4”	2.7”

* *o*utside 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.

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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.

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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.

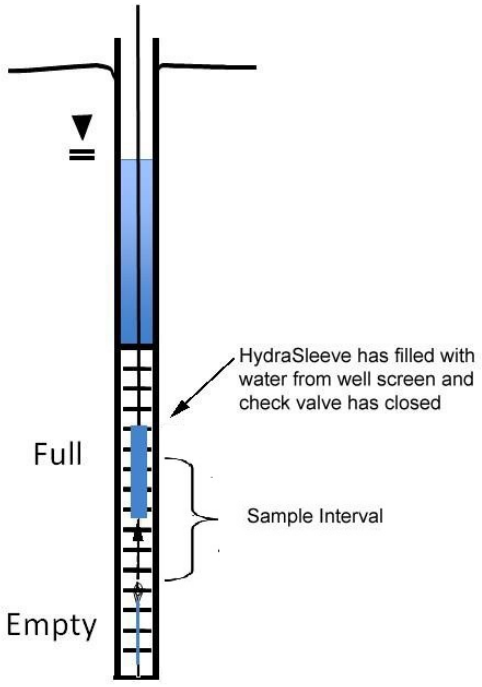


Figure 2. Correct Placement of HydraSleeve.

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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.

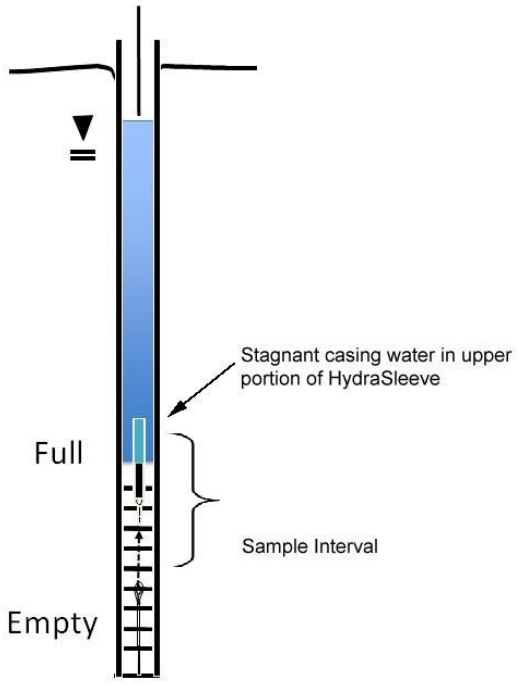


Figure 3. Incorrect placement of HydraSleeve.

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).

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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.

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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 useing 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.

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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 sceen 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).

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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.

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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.

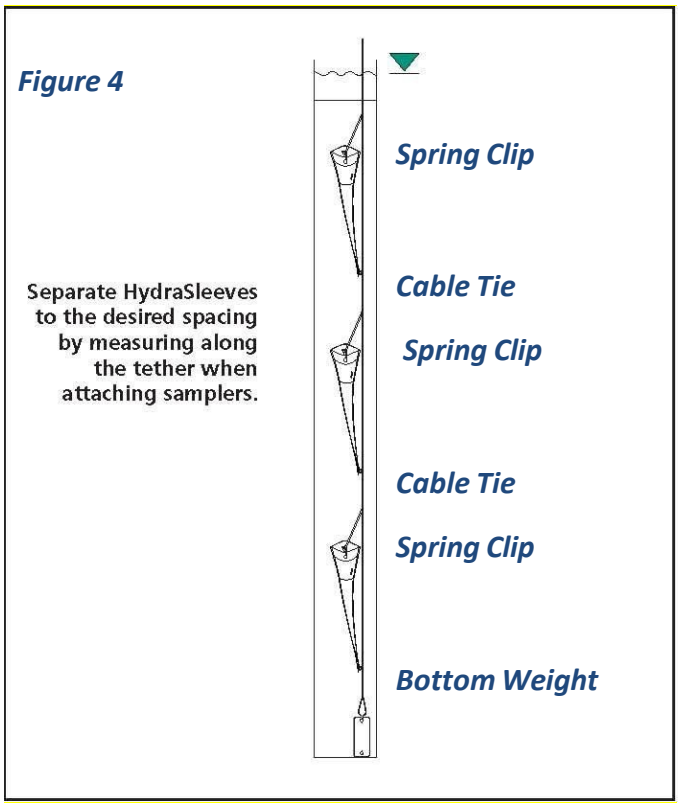


Figure 5. Multiple HydraSleeve deployment

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.

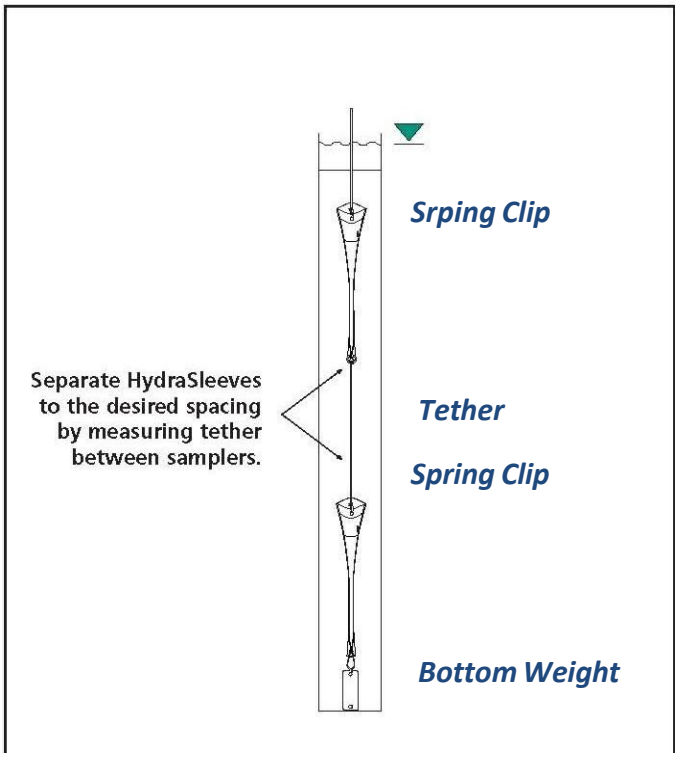


Figure 5. Alternative method for deploying multiple HydraSleeves.

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.

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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.

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References

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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

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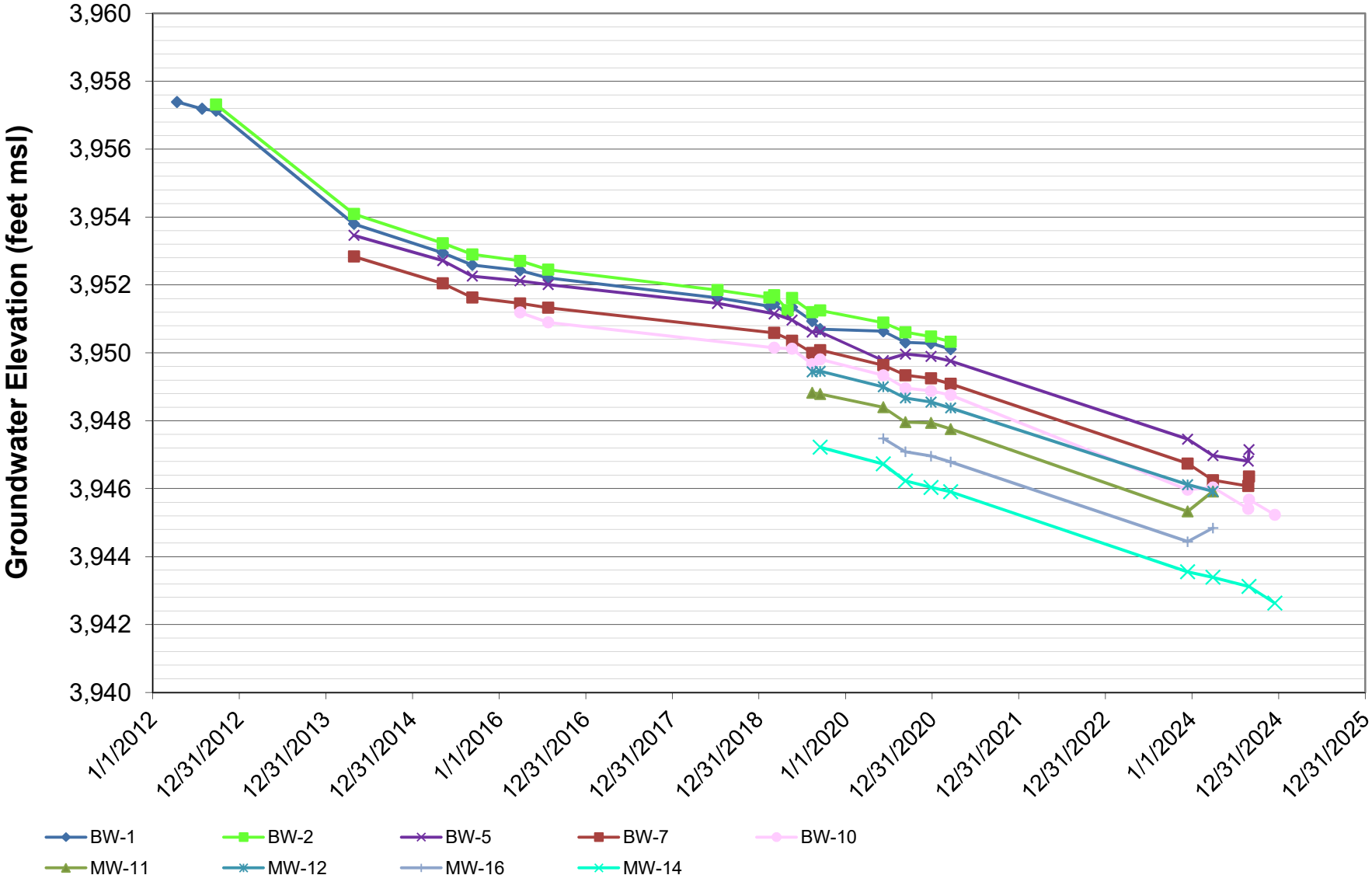
Appendix G

Graphs

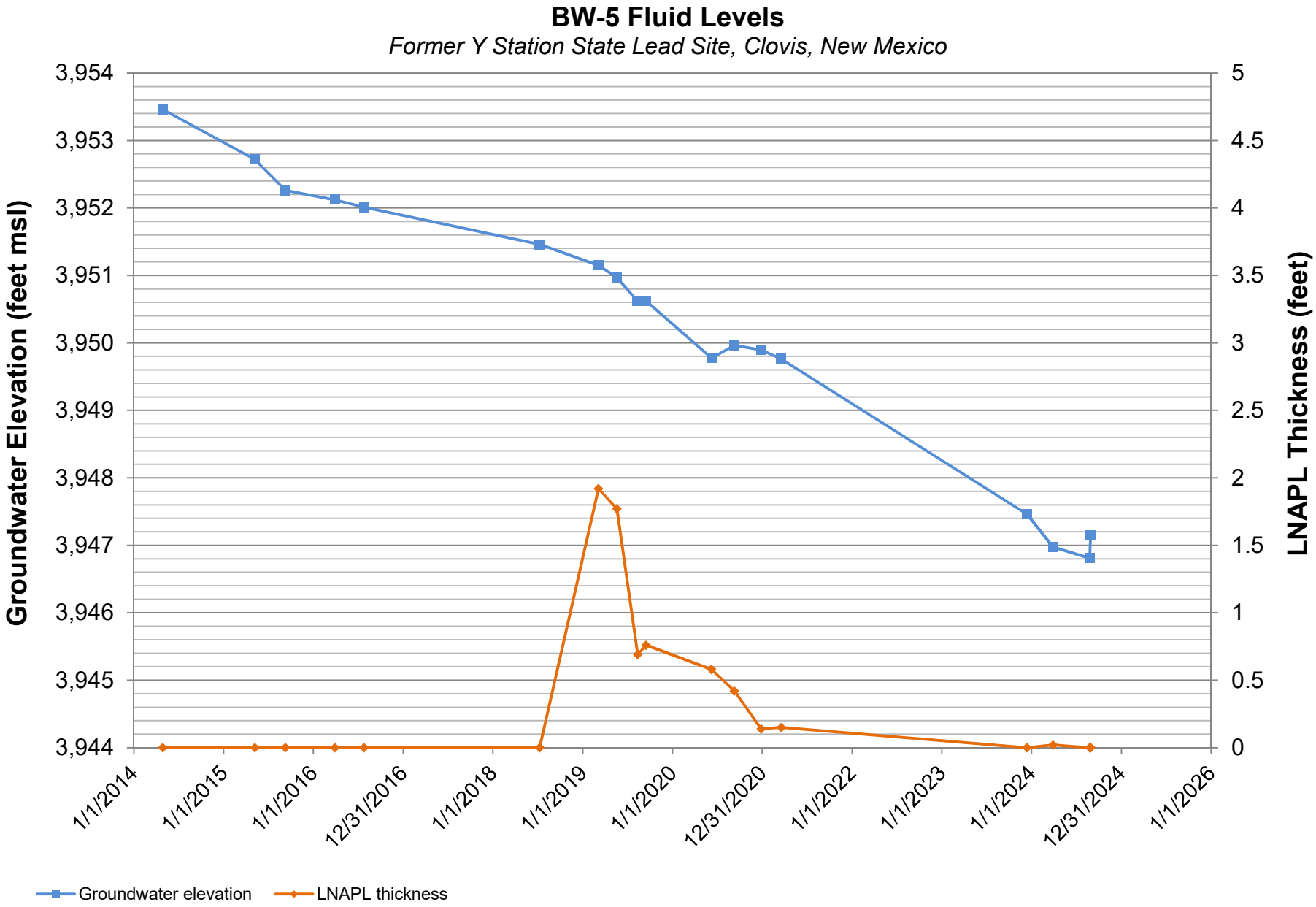
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Groundwater Elevations

Former Y Station State Lead Site, Clovis, New Mexico

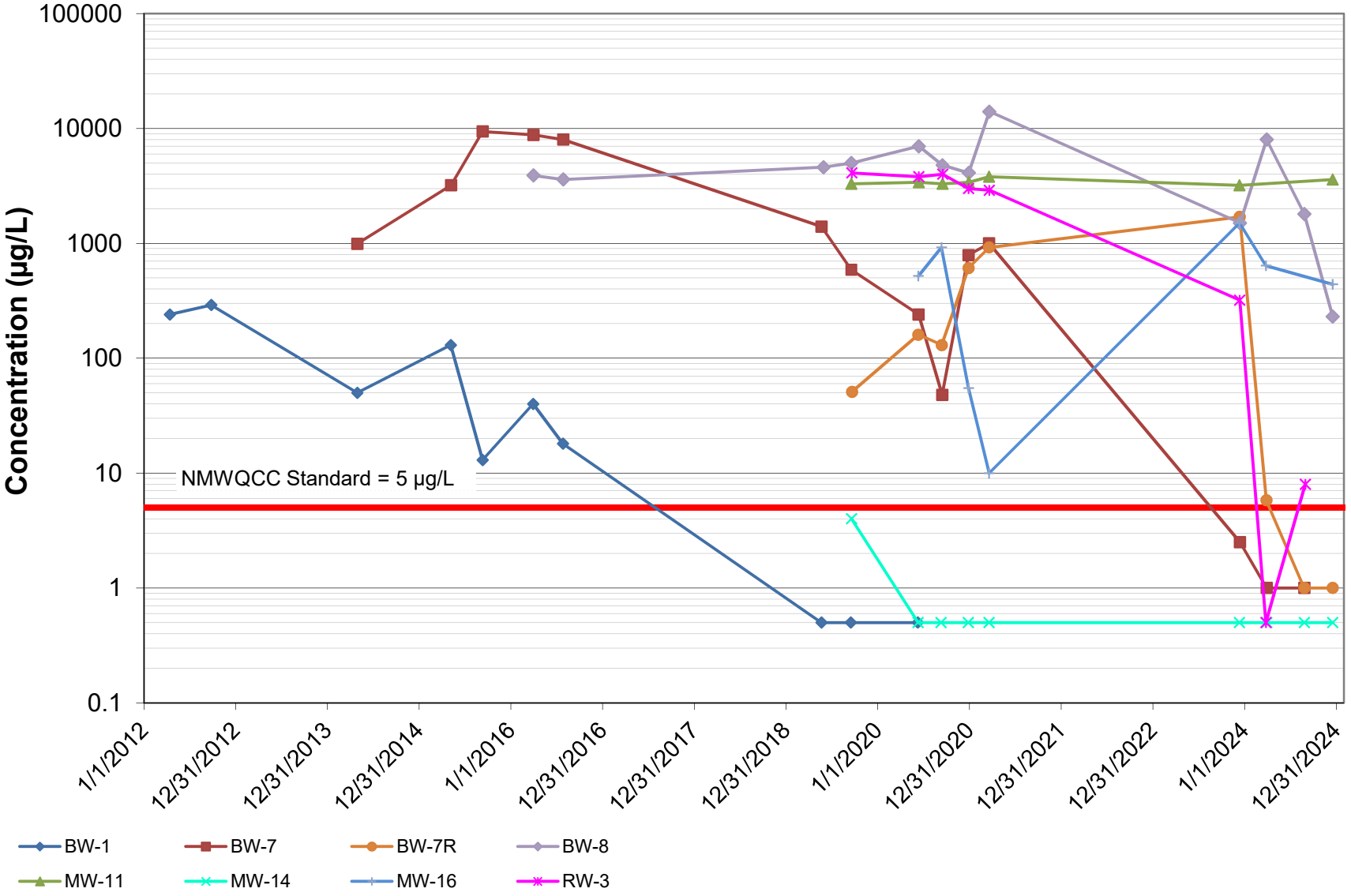


S:\Projects\DB18.1157_Former_Y_Station\Docs\Tables for Reports\Appx_Charts.xls GW Elevations


BW-5 Fluid Levels
Former Y Station State Lead Site, Clovis, New Mexico
Groundwater Elevation (feet msl)
LNAPL Thickness (feet)
3,954
3,953
3,952
3,951
3,950
3,949
3,948
3,947
3,946
3,945
3,944
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2014
1/1/2015
1/1/2016
12/31/2016
1/1/2018
1/1/2019
1/1/2020
12/31/2020
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12/31/2024
1/1/2026
Groundwater elevation
LNAPL thickness

Benzene Concentrations

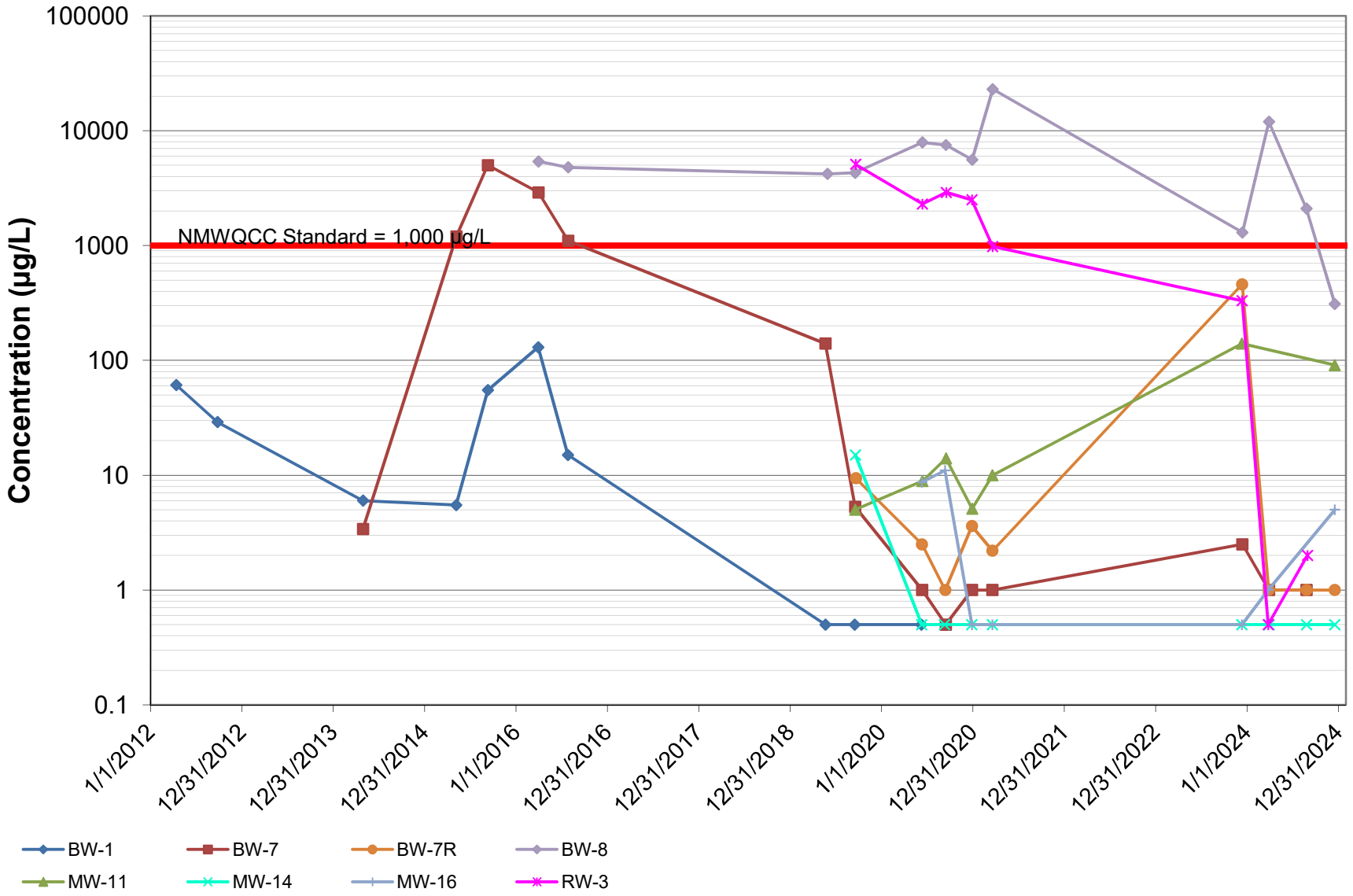
Former Y Station State Lead Site, Clovis, New Mexico



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Toluene Concentrations

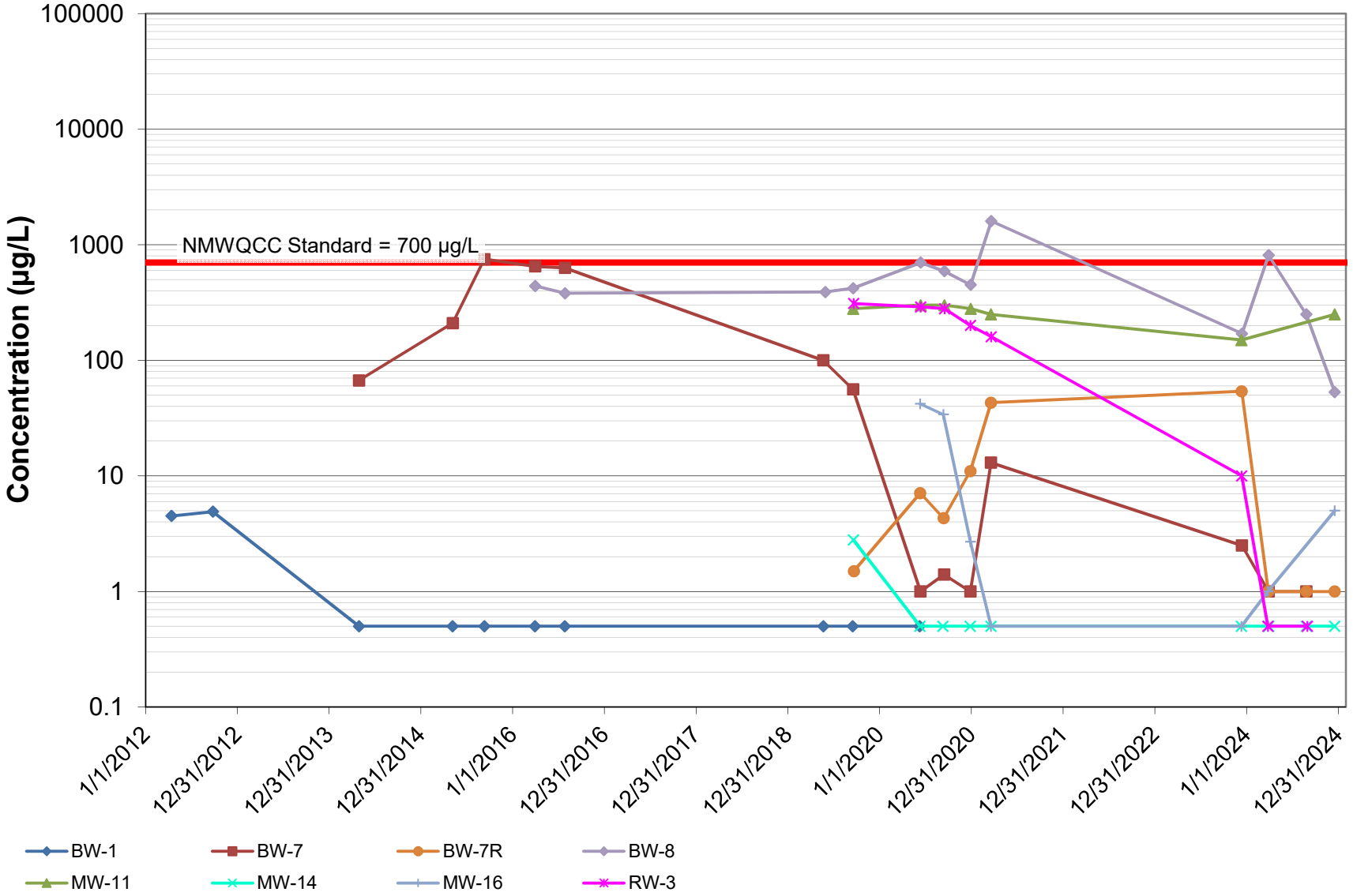
Former Y Station State Lead Site, Clovis, New Mexico



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Ethylbenzene Concentrations

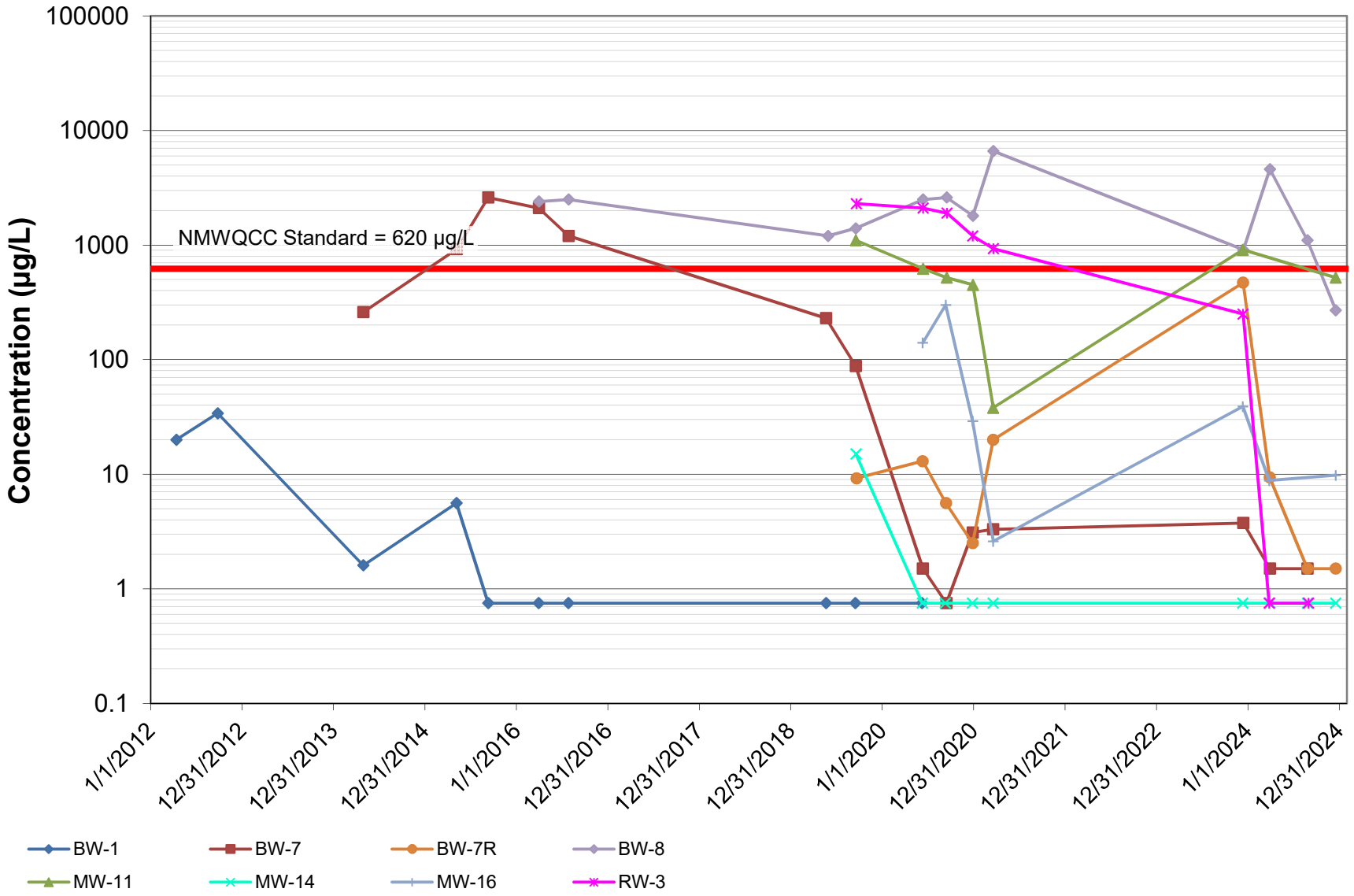
Former Y Station State Lead Site, Clovis, New Mexico



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Total Xylene Concentrations

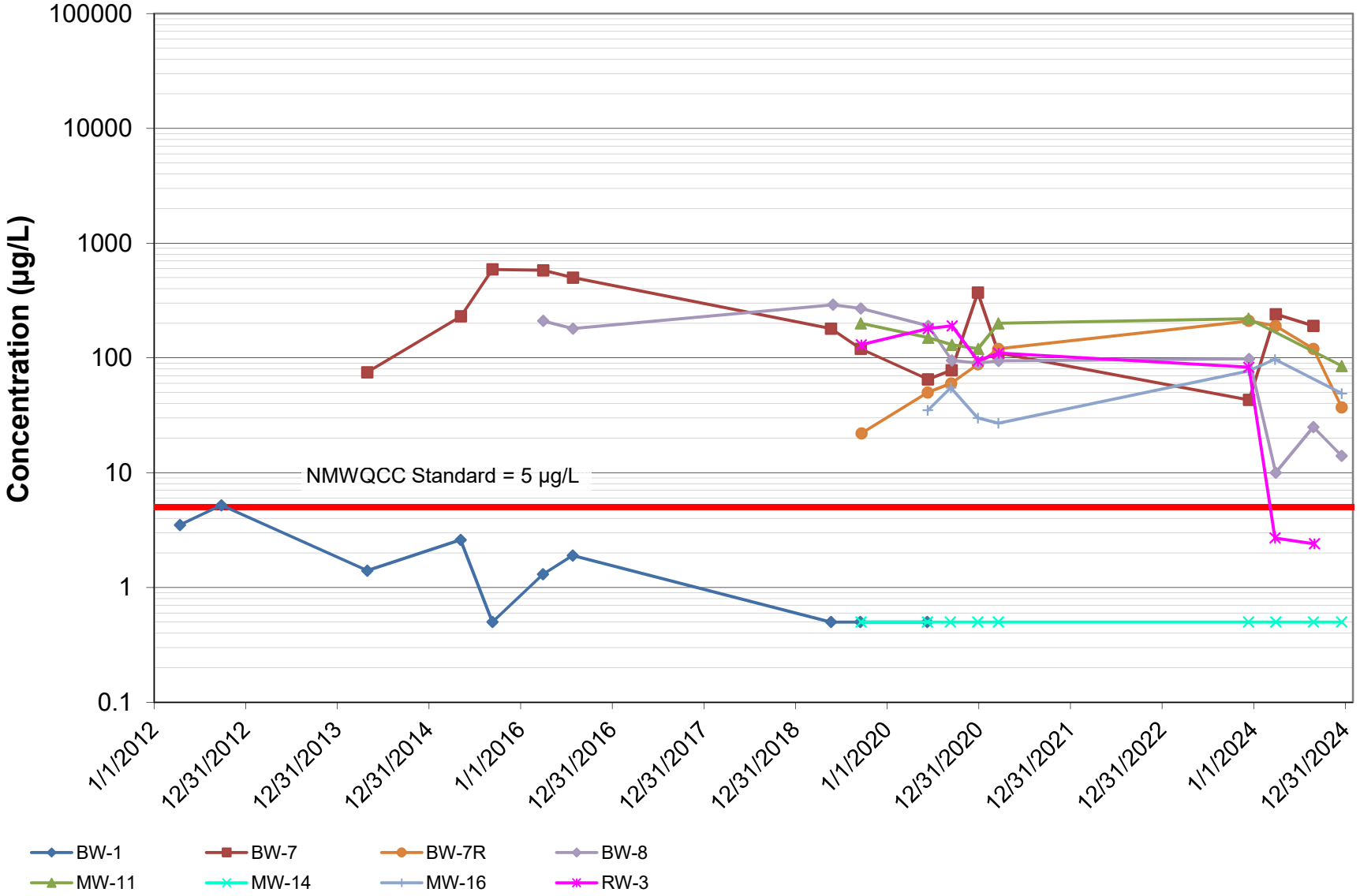
Former Y Station State Lead Site, Clovis, New Mexico



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EDC Concentrations

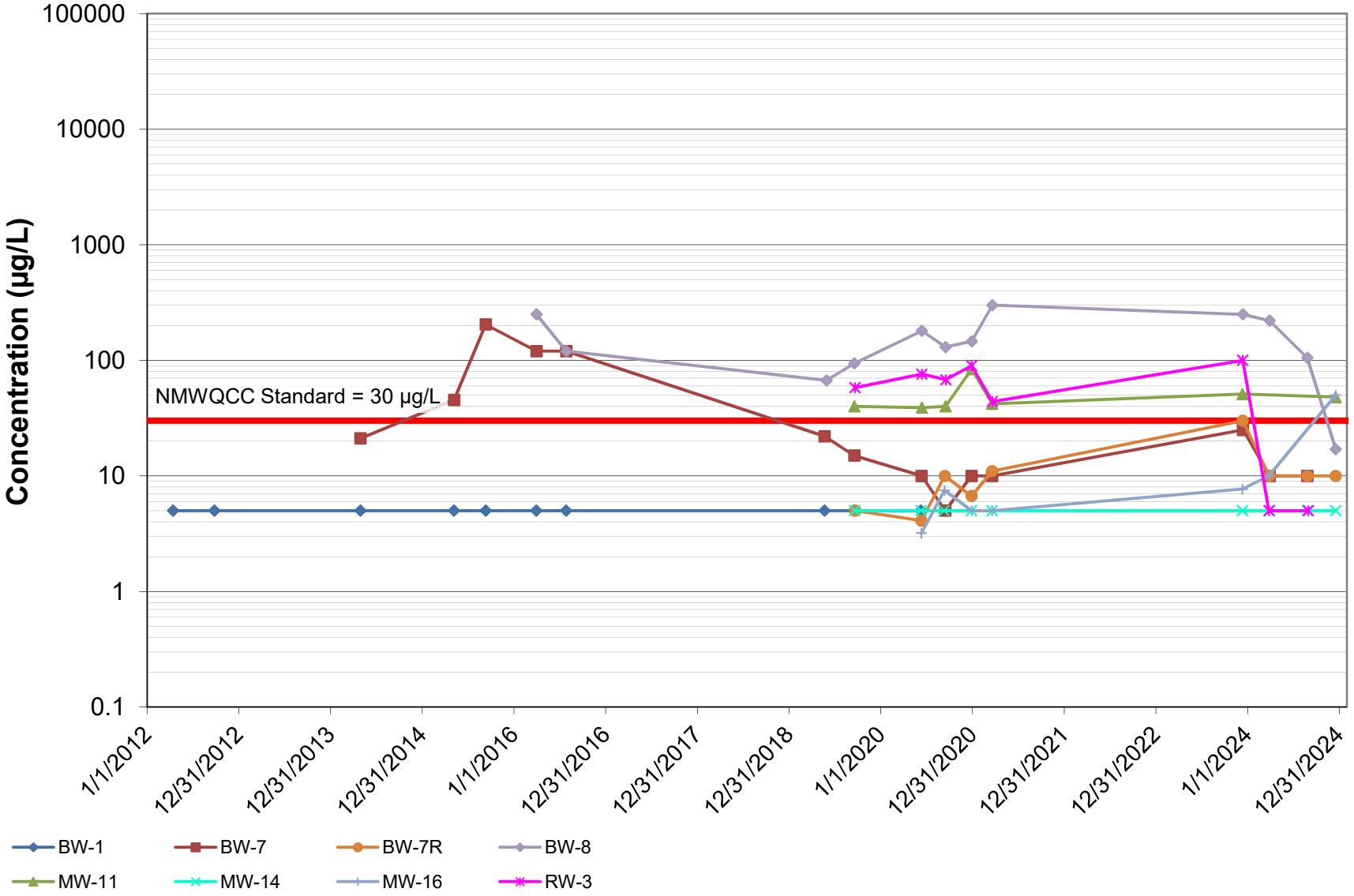
Former Y Station State Lead Site, Clovis, New Mexico



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Total Naphthalene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



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Appendix H

Baseline Plume Maps

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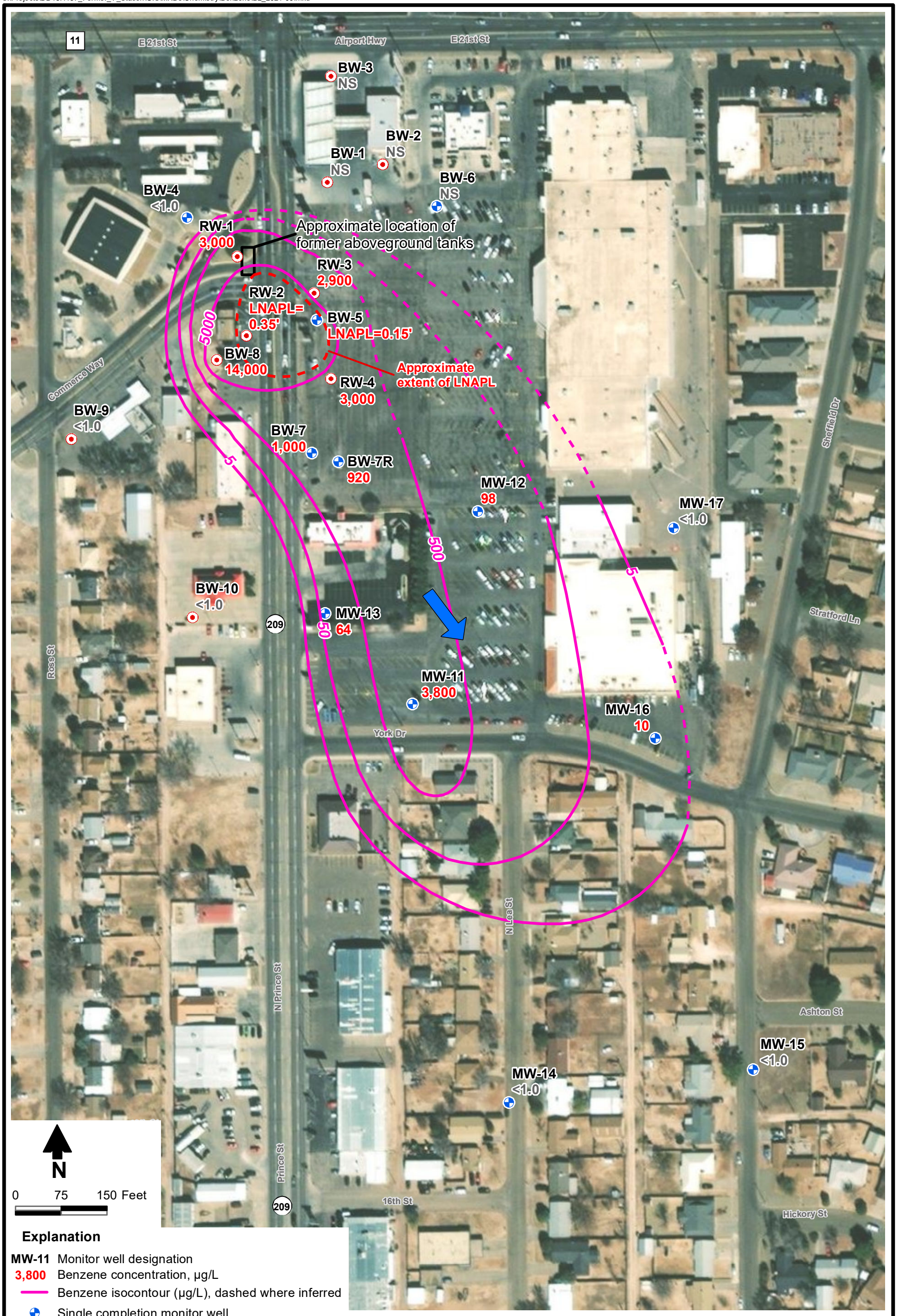
Notes: 1. All concentrations reported in micrograms per liter (µg/L).
2. **RED** indicates concentration that exceeds NMWQCC standard.
3. [a] Laboratory reporting limit is equal to or greater than the applicable standard.
4. Samples presented on this figure were collected using HydraSleeve sampling devices.

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Distribution of Dissolved-Phase Contaminants - March 2021

Daniel B. Stephens & Associates, Inc.
4/15/2021 JN DB18.1157.00

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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

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Explanation

MW-11 Monitor well designation

200 EDC concentration, µg/L

EDC 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.

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EDC Isoconcentration Map
March 2021

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Explanation

MW-11 Monitor well designation
0.14 EDB concentration, µg/L
EDB 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.

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EDB Isoconcentration Map
March 2021

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