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By PSTB at 12:00 pm, Jun 14, 2024

June 14, 2024

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

Re: Second 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 February 1 through April 30, 2024 and groundwater monitoring activities conducted in March and April 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 \$70,834.20, including NMGRT for Deliverable ID #4339-3 to reflect a reduction in the number of samples collected and the reduced O&M effort while the soil vapor extraction system was out of service. Please do not hesitate to call us at (505) 822-9400 if you have any questions or require additional information.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

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

Thomas Golden, P.E.
Senior Engineer

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

Grace Herrmann, P.E.
Staff Engineer

GH/tg/rpf
Enclosure

cc: Katherine McNeil, NMED PSTB

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

Prepared for

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

Prepared by



6020 Academy NE, Suite 100
Albuquerque, New Mexico 87109
www.dbstephens.com
DB18.1157



June 14, 2024

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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 second quarter of operation and maintenance (O&M) for the dual-phase extraction (DPE) system from February 1 through April 30, 2024, as well as groundwater monitoring activities conducted at the site March 26 through 29 and April 28, 2024. This report was prepared in accordance with the requirements of Part 119 of the New Mexico Petroleum Storage Tank Regulations (PSTR) and DBS&A standard operating procedures (SOPs). The work plan for remediation system startup and operation was submitted to the NMED PSTB on September 20, 2023 (DBS&A, 2023), and was approved under WPID #4339 on September 28, 2023 (NMED, 2023).

1.1 Site History

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

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

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

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

Benzene was the constituent detected at the highest concentrations in groundwater and with the greatest areal extent. Concentrations of other contaminants of concern (COCs) above applicable regulatory standards were typically localized near the center of the benzene plume.

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

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

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

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

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

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

1.2 Remediation System

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

A total of 5 multi-zone nested wells (BW-8 and RW-1 through RW-4) are clustered around the former source area. Five additional single-zone remediation wells (BW-7R, MW-11, MW-12, MW-13, and MW-16) 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 $\frac{3}{4}$ -horsepower (hp) pump, and the downgradient groundwater extraction wells have a Grundfos model SP 5S10-22 1-hp pump. Each wellhead includes a totalizing flow meter, hose bibb (for collection of groundwater samples), analog pressure gauge, and an air release valve (ARV). Each well also includes a pressure transducer for remote monitoring of fluid levels and control of the pumps.

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

1.3 Scope of Work

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

1.4 Quarter Highlights

The principal accomplishments of this reporting period include the following:

- February 8 and 19, March 5 and 27, and April 17 and 28, 2024: Recorded DPE system operations data; sampled process water for laboratory analysis. SVE process vapor samples were only collected on February 8 and 19, 2024.
- March 19 through 20, 2024: Performed troubleshooting of issues with thermal oxidizer flame safety controller alarms and variable frequency drive (VFD) faults with MW-11. An air relief valve (ARV) was replaced at MW-13.
- March 26 through 29, 2024: Performed quarterly groundwater monitoring. Gauged fluid levels in 19 site monitor wells and collected groundwater samples from 14 site monitor wells for laboratory analysis.
- March 27 through April 3 and April 28, 2024: Performed extraction well rehabilitation, including jetting and scrubbing of well screens and flushing submersible pumps.
- April 2 and 3, 2024: Performed groundwater treatment system cleaning and maintenance.

- April 28, 2024: Collected a groundwater sample from RW-2.
- May and June 2024: Prepared the quarterly O&M and monitoring report.

The equipment operated with minimal interruption from February 1, 2024 through the morning of February 20, 2024. The thermal oxidizer experienced a fault on February 20, 2024 that caused the SVE process to be out of service for the remainder of the quarter. The groundwater extraction and treatment system operated the entire quarter, although several wells were out of service intermittently. These issues are further explained in Section 2. A sample was not collected from MW-11. Further discussion is provided in Section 3.

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, and four additional visits for system optimization and troubleshooting. Evaluation of the remediation system was performed continuously by using daily updates and alarm notifications from the telemetry system. Vapor monitoring, including field screening and sampling for laboratory analysis, was performed during the two regular site visits when the SVE system was operational. 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 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 control panels of the installed remediation equipment.

As recorded from the SVE system control panel, total system air flow has ranged from 725 to 730 standard cubic feet per minute (scfm), which is less than the total flow measured in the first quarter. This decrease is a result of the SVE component of the remediation system being turned

off at MW-11, MW-13, and MW-16 due to low influent concentrations. Air flow measured using the VelociCalc has been higher, but may be affected by the piping configuration or minor amounts of moisture in the process air. Mass removal calculations use the lower air flow measured by the system, which produces conservative (lower) estimates of mass removal. Vacuum at the SVE blower was approximately 69 inches water column (inches H₂O) (Table 1) while it was running. This vacuum is higher than the first quarter because MW-11, MW-13, and MW-16 were turned off, as discussed in Section 2.2. The SVE blower operated at approximately 45 hertz (Hz), leaving an additional 25 percent capacity if needed. The Intellishare representative tested the blower at higher speeds during startup, but did not observe a noticeable increase in mass removal.

The combined influent PID reading initially exceeded the capacity of the PID (greater than 15,000 parts per million by volume [ppmv]). Since November 2, 2023, PID readings have ranged from approximately 650 to 1,500 ppmv. PID readings do not always correlate with laboratory concentrations, but these values are a positive indicator of high mass removal. PID readings from the oxidizer discharge were also relatively high initially, but values have been trending lower with ongoing operation of the remediation system, and have mostly been below 100 ppmv since November 27, 2023 (Table 1).

2.2 Wellhead Operation Data

Air flow for individual zones of the source area wells (RW-1 through RW-4 and BW-8) has ranged from approximately 30 to 65 scfm. When they are operating, air flow for downgradient wells BW-7R, MW-11, MW-12, and MW-13 has ranged from approximately 60 to 90 scfm, whereas MW-16 air flow has been approximately 110 scfm. Values have been in line with expected air flow based on limited pilot testing performed by the previous consultant. Observed variability was expected based on slight variations in lithology and changes in well operation. Applied well vacuum increased from approximately 40 inches H₂O to nearly 50 inches H₂O.

PID results from field screening are presented on Figures 4 through 7 and in Table 2. The highest PID readings have been in the deep zone of the source area wells (RW-1 through RW-4 and BW-8). Values have generally been between 1,000 and 3,000 ppmv. PID concentrations in all zones of RW-1 have decreased, which is a positive indicator of mass removal in that area of the plume. PID readings have also remained relatively steady for the intermediate and shallow zones of RW-2, while decreasing in similar zones for other nested wells. As expected, PID readings have been lowest in the off-site wells (BW-7R, MW-11, MW-12, MW-13, and MW-16),

with values in 4 out of 5 wells consistently below 100 ppmv and values in all 5 wells generally below 200 ppmv. The highest PID readings in the off-site wells have been in BW-7R and MW-12, which are closer to the source area than the other 3 wells. Based on consistent low PID readings, DBS&A chose to turn off SVE for wells MW-11, MW-13, and MW-16 following collection of O&M data on January 31, 2024. In the first week of the quarter, PID concentrations in the source area wells generally increased, likely due to increased applied vacuum. DBS&A will continue to monitor trends in individual zones and wells to optimize mass removal from the SVE component of the remediation system, and will be pulsing low-performing wells to maximize removal of contaminants.

Water flow meter readings for individual wells and the treated water discharge are presented in Table 3, together with readings from the pressure transducer installed in each well. DBS&A is evaluating operating water levels and extraction volumes in an effort to optimize mass removal from the groundwater system, monitor well performance, and minimize submerging contamination below the current static water level. DBS&A noticed toward the end of the quarter that groundwater extraction was decreasing for many of the site remediation wells (e.g., water production from MW-16 was negligible in January 2024). After the flow meter for MW-16 was pulled, a significant amount of iron bacteria sludge was observed to have clogged the flow meter. DBS&A implemented a rigorous disinfection and well rehabilitation program during second quarter O&M to remediate groundwater treatment system components affected by this sludge. Details of this work are provided in Section 2.5.

As of April 30, 2024, the remediation system had treated nearly 1.5 million gallons of petroleum-contaminated water. This is the totalized flow volume recorded by the treated water discharge flow meter. This reading has been consistently about 63 percent of the sum total flow from all of the individual groundwater extraction wells (i.e., 30 to 40 percent lower). The treated discharge flow meter was calibrated by PureOps on February 20, 2024, and the meter has 99.8 percent accuracy (Appendix C). The flow meter manufacturer suspects that the piping configuration within the vaults may be affecting flow measurement (i.e., there may not be enough straight pipe before the flow meters at the wellheads).

To investigate this discrepancy, separate flow meters were installed in the valve vaults for wells RW-3 and RW-4 to correlate flow with the existing wellhead meter. The existing flow meter in RW-3 is connected at an elbow, whereas the flow meter in RW-4 is connected to a tee. Flow totals in the secondary meter in RW-3 were approximately half of what was reported on the HMI totalizer, while the RW-4 secondary meter and HMI totalizer readings were similar (within

10 percent). Results of this investigation provided conclusive evidence that a lack of straight pipe prior to the meter results in over-reporting of the flow. DBS&A was unable to investigate the flow accuracy in the single-completion wells due to the tight piping configurations in those vaults. Ultimately, the relative changes in flow totals and flow rates are the data used for system optimization. DBS&A has not observed any physical evidence indicating that there is a pipeline leak between the wells and the remediation system compound. Despite the discrepancy and other operational challenges, the major remediation equipment was treating approximately 7 gallons per minute (gpm) from the 7 operational extraction wells at the end of the second quarter. In accordance with existing discharge permits/agreements, DBS&A reports water flow meter readings to both the City of Clovis (the City) and the New Mexico Office of the State Engineer (OSE). Totals from individual wells that may be reporting inaccurately are conservatively high. DBS&A does not suspect that any under-reporting to OSE has occurred.

2.3 Laboratory Sampling

Laboratory samples were submitted to Hall Environmental Analysis Laboratory (HEAL, dba Eurofins) in Albuquerque, New Mexico for volatile organic compound (VOC) and inorganic analyses in accordance with the approved work plan. Groundwater samples were collected at the combined influent point prior to oil-water separation and at the discharge point after clarification. Groundwater samples for individual wells were collected during the quarterly groundwater monitoring event, as discussed in Section 3. Air samples were collected at the SVE combined influent (manifold), at the oxidizer effluent (discharge stack), and from the DTA effluent. Air samples from individual wells are collected at the wellhead for field screening purposes only. Laboratory results, including chain of custody documentation, are provided in Appendix D.

The analytical results for SVE combined influent laboratory samples collected during startup showed total petroleum hydrocarbon gasoline-range organics (TPH GRO) concentrations of 36,000 and 34,000 micrograms per liter ($\mu\text{g/L}$) on November 1 and 3, 2023, respectively. TPH GRO concentrations in influent air samples ranged mostly from 6,500 to 7,800 $\mu\text{g/L}$ in December 2023 and February 2024. After the SVE at MW-11, MW-13, and MW-16 was shut off, the TPH GRO concentration increased to 14,000 $\mu\text{g/L}$ on February 8, 2024, but has since dropped back to the normal range. Since December 2023, thermal oxidizer destruction efficiency has averaged more than 99 percent.

During this period of operation, combined influent (raw) water samples contained TPH GRO and benzene, toluene, ethylbenzene, and total xylenes (BTEX) at average concentrations of 2.5 and

0.9 milligrams per liter (mg/L), respectively. Concentrations were the highest at the beginning and the end of the quarter. Benzene, 1,2-dibromoethane (EDB), and 1,2-dichloroethane (EDC) concentrations have been consistently above New Mexico Water Quality Control Commission (NMWQCC) standards.

Concentrations of EDB in treated water samples exceeded the NMWQCC standards. However, treated water is routed to the City wastewater treatment plant for additional treatment. The average EDB concentration was 0.35 µg/L (Table 5). Average benzene, EDB, and EDC treatment efficiencies have been 97.8, 81.6, and 87.2 percent, respectively, which are typical for the various constituents based on the installed treatment equipment. Treatment efficiencies have been slowly trending higher as operation continues.

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 75, 1.7, and 41 mg/L, respectively, which are below the NMWQCC standards. Average total dissolved solids (TDS) concentration was approximately 470 mg/L (Table 6). The TDS concentration in the treated water sample has generally been similar to that of the influent (raw) water sample.

2.4 Contaminant Removal Performance

Calculations based on two methods (laboratory and PID analysis) were performed to estimate hydrocarbon mass removal by the SVE system (Appendix E). The laboratory analysis method indicated that hydrocarbon mass removal rates averaged approximately 33 pounds per hour (lb/hr) while the SVE system was running in February. Results obtained from the PID analysis were lower (11 lb/hr). However, concentration estimates measured in the field using a portable PID are considered to be for screening purposes only, and do not typically correlate with mass concentrations measured with laboratory data. According to calculations using the laboratory results, and considering removal from both air and water processes, a total mass of nearly 85,000 pounds (14,150 gallons) of hydrocarbons was removed from the site using the installed remediation equipment (Figure 8).

Calculations for estimated emission rates from the remediation system are also provided in Appendix E. Since startup, average emission rates for benzene and TPH GRO are 0.083 and 1.49 lb/hr, respectively, which are below applicable air permitting standards. Although emission rates started high, they are trending lower with continued operation of the remediation equipment. Based on discussions with Intellishare, DBS&A suspects that oxygen deficiency in

the subsurface reduced initial thermal oxidizer efficiency, resulting in incomplete combustion of hydrocarbons. Operation of the remediation system is likely increasing oxygen content, as well as lowering influent contaminant concentrations over time.

During this quarter, electricity was consumed at an average rate of 406 kilowatt-hours (kWh) per day, at an average daily cost of \$34.68. Natural gas was consumed at an average rate of 151 therms per day, at an average daily cost of \$104.73 (Table 7). No natural gas was used in March or April 2024 because the oxidizer was out of service.

2.5 DPE System Maintenance

As mentioned previously, the SVE system is currently out of service due to faults occurring on the thermal oxidizer. McNiel Electric and Intellishare personnel performed troubleshooting on May 21 and 22, 2024. They discovered that a low fire switch within the natural gas and combustion air control valve is defective and needs to be replaced. In addition, they found that the starter on the treated water discharge pump needs to be replaced. Alarms or errors with the discharge pump will disallow the SVE system to operate because the moisture separator is drained into the groundwater treatment system. These controls prevent the groundwater treatment equipment from overflowing if the discharge pump cannot remove water from the clarifier. Repairs for the thermal oxidizer and the discharge pump are scheduled for the week of June 16, 2024. An update on system operation will be provided to the PSTB project manager and summarized in the third quarter report. The third quarter O&M period will begin when DBS&A can confirm consistent operation of the remediation system after repairs are completed.

As the aquifer has become oxygenated, bacterial growth has increased in the groundwater conveyance lines, fittings, and flow meters, causing reduced water flow rates at some of the wells. DBS&A performed a disinfection test using sodium hypochlorite during the second quarter. Sodium hypochlorite was added downhole several times over the course of either several days or 2 weeks. While flow rates increased slightly, there was not a large improvement from the downhole chemical treatment. DBS&A determined that physical methods would be needed to remove the biomass from the well screens and submersible pumps. During the groundwater monitoring event, DBS&A performed an extensive well rehabilitation program where the pumps were removed and the screens were jetted with a mixture of water and acetic acid and scrubbed with a brush. Following well screen jetting and scrubbing, extraction rates increased for the majority of the wells that were treated. Additional disinfection will be needed at more frequent intervals. DBS&A recommends jetting and scrubbing well screens quarterly for optimal performance. There has been no visible improvement in removal of biomass in the

conveyance piping, but more frequent disinfection could cause that biomass to deteriorate and flush into the groundwater treatment system, where it can be removed as sludge.

DPE and oxidizer maintenance were completed following the manufacturers' suggested schedules. Groundwater treatment vessels were cleaned during this groundwater monitoring event and fresh water was used to refill the tanks. 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. DBS&A has scheduled monthly SVE blower oil changes when the system is back online. The motor bearings are greased at each O&M event per the manufacturer's instructions.

3. Groundwater Monitoring

The scope of work for the March 2024 groundwater monitoring event included gauging water levels and collecting groundwater samples in 15 site monitor and remediation wells for laboratory analysis. DBS&A was unable to collect a sample from MW-11 due to VFD pump failure that occurred in February 2024. After the well pump was removed and the well was jetted, scrubbed, and bailed, field staff attempted to collect a groundwater sample using a spare HydraSleeve. Due to operational issues in the field and the timing of the jetting and scrubbing of this well, the collected water was ultimately determined not to be representative of the ambient aquifer conditions and a laboratory sample was not collected.

Due to the schedule that was required to perform well rehabilitation in the parking lot of Optical Source, RW-2 was not sampled until April 28, 2024. Wells BW-6, BW-9, and BW-10 were excluded from the sampling plan during the current monitoring event in accordance with the approved work plan, but will be sampled during the fourth quarter event. Groundwater samples collected from the site monitor wells and remediation wells were analyzed for VOCs, including BTEX, methyl tertiary-butyl ether (MTBE), and total naphthalenes, using EPA method 8260B (full list) and for EDB and EDC using EPA method 504.1.

3.1 Groundwater Monitoring

On March 27 through 30, 2024, depth to water was measured with an electronic interface probe in monitor wells that do not contain a submersible pump. Water levels were measured during remediation system operation and again approximately 24 hours after the remediation system

was turned off to obtain static water level measurements. Due to the extended depth to groundwater, DBS&A cannot safely run an electronic interface probe to the water table in wells with pumps, so transducer data are recorded for the 9 remediation wells with pumps. Transducer data are then used to calculate both depth to water and the groundwater elevation. Table 8 summarizes water level measurements and groundwater elevations from this and previous monitoring events. Water level data were used to prepare a potentiometric surface map for the area under static conditions on March 29 and 30, 2023 (Figure 9).

During the second quarter sampling event, groundwater samples for laboratory analysis were collected from 15 monitor wells and remediation wells. Samples from remediation wells equipped with pumps are sampled using the sample tap at the wellhead while the remediation pump is running. During the current monitoring event, these wells were sampled prior to shutting down the system, so results will be indicative of pumping conditions. All other wells are sampled using dedicated, disposable HydraSleeves, and they were sampled with the remediation system off. The sampling protocol is outlined in Appendix F. Dissolved oxygen (DO), oxidation/reduction potential (ORP), pH, specific conductivity, and temperature were measured in the field during purging using a YSI 556 Multiprobe System (MPS) meter, with the values recorded in the field notes (Appendix C).

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

3.2 LNAPL Recovery

LNAPL was not detected in any monitor wells during this sampling event. Due to operation of the submersible pumps (emulsifying LNAPL near the water table), LNAPL was not expected to be present in any of the remediation wells. The absence of LNAPL from monitor well BW-5 is a positive indicator of remediation system operation. Historical LNAPL recovery 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 December 2023 sampling event:

- *Benzene*: BW-5, BW-7R, BW-8, MW-12, MW-13, MW-15, MW-16, RW-2, and RW-4.
- *Toluene*: BW-8.
- *EDB*: BW-5, BW-7, BW-7R, BW-8, MW-12, MW-13, MW-15, MW-16, and RW-2 through RW-4.
- *EDC*: BW-5, BW-7, BW-7R, MW-11, MW-12, MW-13, MW-16, and RW-1 through RW-4; the laboratory reporting limit for BW-8 was greater than the NMWQCC standard.
- *Total naphthalenes*: BW-5, BW-8, and RW-2; the laboratory reporting limit for MW-12 and RW-4 was greater than the NMWQCC standard.
- *Xylenes*: BW-5, BW-8, and RW-2.

Benzene, EDB, and EDC are the COCs that are 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. Data reported during this monitoring event showed effects of active remediation activities on subsurface contaminant concentrations. Several wells on the perimeter of the contaminant plumes had lower concentrations (e.g., RW-1, RW-2, RW-3, BW-5, and BW-7), likely impacted by mobilization of cleaner water outside the plume extent, while the highest contaminant concentrations were detected in wells located closer to the interior of the plume (e.g., RW-4, BW-7R, MW-11, and MW-16).

3.4 Trends or Changes in Site Conditions

Graphs showing historical trends in monitor well contaminant concentrations are provided in Appendix G. Groundwater is encountered beneath the site at depths ranging from approximately 319 to 332 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 6.4 feet, resulting in an average annual decline of approximately 0.65 foot per year. As operation of the remediation system continues, DBS&A will evaluate the impacts of drawdown on the water table in future quarterly reports.

Historical groundwater analytical organic chemistry data for site wells are summarized in Table 9. Baseline plume maps are provided in Appendix H. Contaminant concentrations are decreasing for the majority of site wells with operation of the DPE system. However, the lack of SVE system operation in March and April 2024 may have negatively impacted groundwater concentrations during the current monitoring event. Trends will be monitored closely as the system is restarted for the third quarter. Notable trends or changes regarding specific wells are as follows:

- *BW-5*: LNAPL was measured at only 0.02 foot, and was not present last quarter. Concentrations of all COCs increased slightly since the last quarter, but were still significantly lower than the analytical results from 2016. Benzene, total xylenes, EDB, EDC, and total naphthalenes concentrations were all above the NMWQCC standards. This well is located between two active remediation wells, RW-3 and RW-4. Pumping rates at these wells decreased during this quarter due to biomass accumulation. The lower extraction rates likely impacted the amount of cleaner water that was moving toward BW-5 from outside the plume extent.
- *BW-7*: Between September 2015 and March 2021, concentrations of BTEX constituents decreased from 17,750 to 1,016.3 µg/L, including individual decreases in benzene (9,400 to 1,000 µg/L), toluene (5,000 to <2.0 µg/L), ethylbenzene (750 to <13 µg/L), and total xylenes (2,600 to 3.3 µg/L). Since active remediation started, BTEX concentrations have been below laboratory reporting limits, and only concentrations of EDB (0.36 µg/L) and EDC (240 µg/L) continue to exceed the NMWQCC standards. Concentrations of all other COCs were below laboratory reporting limits. This is a positive indicator of ongoing remediation system operation.
- *BW-7R*: Concentrations of BTEX constituents have decreased from 2,684 µg/L to only 15.2 µg/L. Benzene was detected at the lowest concentration since the well was installed in 2019. During the current monitoring event, benzene (5.8 µg/L), EDB (3.3 µg/L), and EDC (190 µg/L) were detected at concentrations at or above the NMWQCC standards. As this well has continued to operate, it is likely that cleaner water from outside the plume area is moving toward this well.
- *BW-8*: While the concentrations of BTEX constituents increased by an order of magnitude, concentrations in this well are approximately half of pre-remediation concentrations. BW-8 operates solely with the SVE system, but the SVE system was off for approximately 5 weeks before groundwater monitoring occurred. This increase in concentrations is likely due to

rebound while the SVE system was off. The recent changes in COC concentrations are a positive indicator that consistent SVE operation will remediate the source area.

- *MW-11*: A sample was not collected this quarter due to an inoperable pump.
- *MW-12*: Concentrations of most COCs were the lowest in the historical record since the well was installed in 2019. Decreases since active remediation began include benzene (540 to 44 µg/L) and EDC (120 to 89 µg/L). These concentrations exceeded the NMWQCC standards. The concentration of EDB remained similar to the start of remediation (1.2 to 1.4 µg/L). As remediation system operation continues, it is possible that clean water from the perimeter of the plume is infiltrating the area around MW-12.
- *MW-15*: The benzene concentration in this well was 33 µg/L (above the NMWQCC standard), which is an increase from last quarter's value of 11 µg/L. Benzene concentrations in the well have historically been below laboratory reporting limits. DBS&A will continue to monitor concentration trends in this downgradient well during remediation system operation.
- *MW-16*: Concentrations in this well continue to fluctuate. The benzene concentration decreased by nearly half this quarter (1,500 to 640 µg/L). The EDC concentration increased from 77 to 97 µg/L. EDB concentration continues to exceed the NMWQCC standard. This remediation well is pulling contaminated water from upgradient to be treated by the remediation system. As upgradient concentrations decrease, concentrations in the well will continue to decline.
- *RW-1*: Concentrations of all COCs except EDC were below laboratory reporting limits. EDC concentration decreased from 48 to 15 µg/L. This well is likely benefitting from cleaner water migrating south as remediation system operation continues.
- *RW-2*: This well was sampled nearly 4 weeks after all of the other wells in order to perform well and pump rehabilitation. At the end of the quarter, this well was jetted and scrubbed and the well pump was flushed. A sample was collected after the pump was reinstalled and while the rest of the remediation system was off. Despite these conditions, LNAPL was not observed during well rehabilitation, and the concentrations of a majority of the COCs were lower than they were in December 2020, prior to the start of remediation. BTEX concentrations increased since active remediation was initiated. Benzene concentration increased from 41 to 100 µg/L and total xylenes concentration increased from 120 to 1,600 µg/L. The total naphthalenes concentration is at an all-time high of 250 µg/L. These increases are likely due to rebound from the SVE system being out of service.

- *RW-3*: Since the installation of the well in 2019, concentrations of BTEX constituents have decreased significantly from 11,810 µg/L, and were non-detect during this quarter. Only the concentration of EDB (0.36 µg/L) exceeded the NMWQCC standard. Overall, these concentrations are a positive indicator of remediation system operation and mass removal in the source area.
- *RW-4*: COC concentrations in this well were generally increasing since the well's installation in 2019, but BTEX concentration has decreased by more than half since the start of remediation (6,360 to 2,537 µg/L). Increases include EDB (5.2 to 47 µg/L) and EDC (28 to 230 µg/L). As remediation continues, this source area well has been pulling contaminated groundwater from under the roadway, and may be mingling with some of the cleaner water migrating from the north. DBS&A will continue to monitor concentration trends in this well when the remediation system returns to normal operation.

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

4. Conclusions and Recommendations

The DPE remediation system operates as designed, and is already showing a positive impact in the source area, although equipment issues limited operation of the SVE system during the current reporting period. Measurable LNAPL was only present in BW-5 (0.02 foot) during this monitoring event, and contaminant concentrations are changing as anticipated. COC concentrations in wells within the heart of the plume are generally decreasing. Influent (raw) water concentrations in remediation system samples fluctuated throughout the quarter as wells were taken offline for rehabilitation. It is likely that fresh water is being pulled from upgradient into the source area due to pumping by the remediation wells, resulting in containment of the plume in the capture zone of the remediation well network. Trends will be monitored closely to maximize mass removal from the subsurface.

A total mass of nearly 85,000 pounds (14,150 gallons) of hydrocarbons has been removed from the site using the installed remediation equipment. Thermal oxidizer efficiency is improving with continued operation and has consistently averaged more than 99 percent since December 2023. The groundwater treatment system is also operating within design parameters. Both lighter hydrocarbons (e.g., benzene and TPH GRO) and heavier hydrocarbons (e.g., EDB and EDC) are

being removed at an average of 95 to 99 percent. Trends in contaminant concentrations will be monitored closely so that equipment can be operated within manufacturer specifications.


Installed remediation wells are also performing in accordance with the design, although several individual groundwater extraction flow rates have decreased with ongoing system operation. Further investigation and corrective action to restore groundwater production is ongoing, but the well screen and pump rehabilitation efforts improved the flow rates at most of the wells. DBS&A intends to disinfect the wells and conveyance piping to treat bacterial growth in the remediation system. DBS&A also intends to perform well jetting and scrubbing at least one more time under this work plan to optimize groundwater extraction and mass removal in the groundwater phase.

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

System operation was paused following the end of the second quarter. Once system repairs have been completed, DBS&A recommends that the installed remediation system continue to operate in accordance with the approved work plan. O&M and evaluation of the remediation system will continue to be performed on a biweekly, quarterly, and annual basis (DBS&A, 2023). This 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.

Statement of Familiarity

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

Signature: 

Authorized Representative: Thomas Golden, P.E.

Affiliation: Daniel B. Stephens & Associates, Inc.

Title: Senior Engineer

Date: June 14, 2024

References

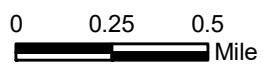
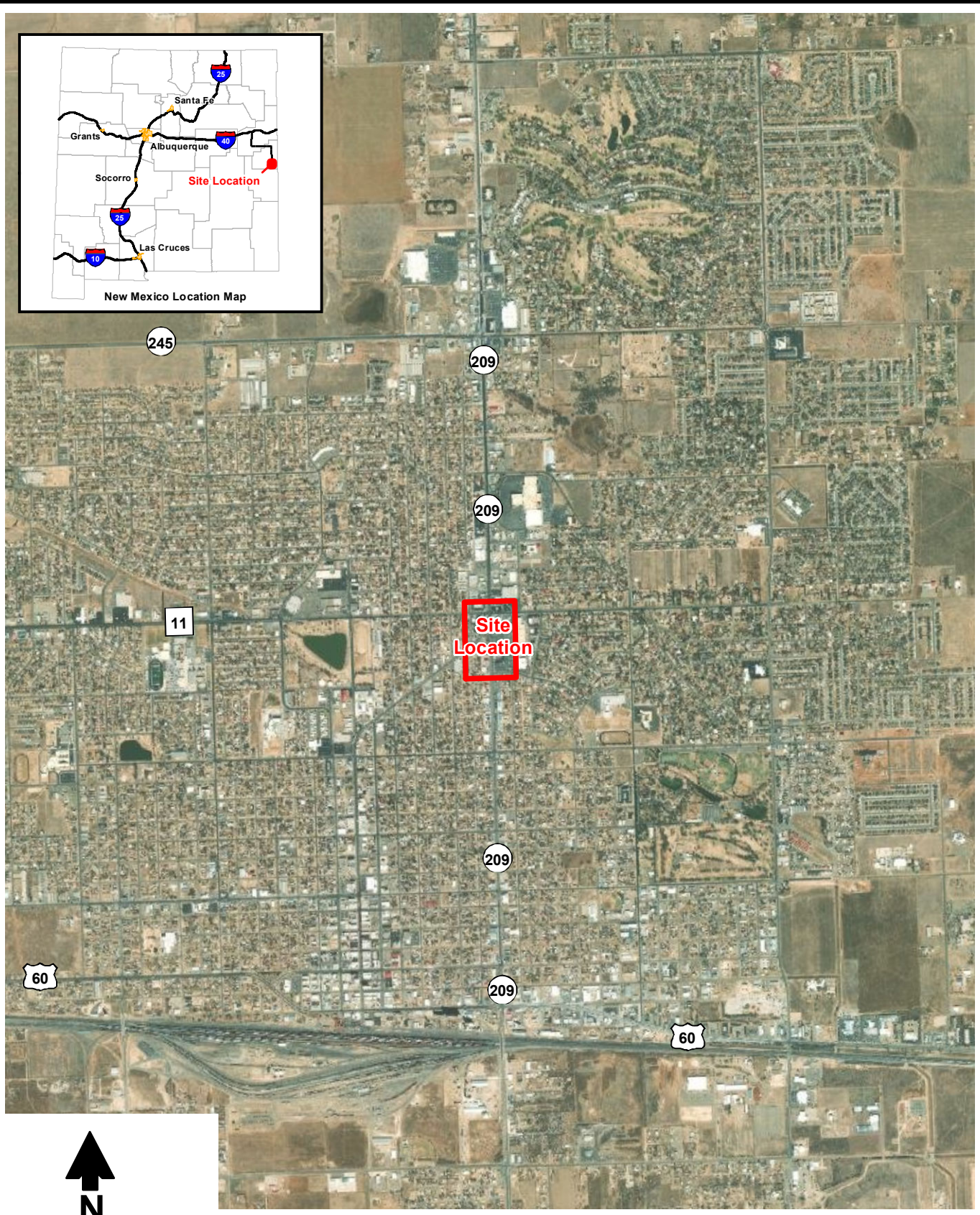
Daniel B. Stephens & Associates, Inc. (DBS&A). 2021. *Final remediation plan, Former Y Station State Lead Site, 721 Commerce Way, Clovis, New Mexico, Facility ID #53742, Release ID #4746, WPID #4134*. Prepared for New Mexico Environment Department Petroleum Storage Tank Bureau, Roswell, New Mexico. July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

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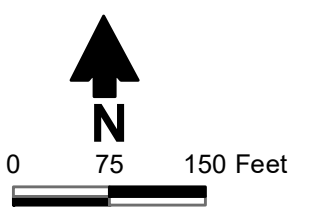
DBS&A. 2024. *Revised remediation system installation as-built report, Former Y Station State Lead Site, Clovis, New Mexico, Facility #53742, Release ID #4746*. Prepared for New Mexico Environment Department Petroleum Storage Tank Bureau, Roswell, New Mexico. May 2, 2022. Revised January 8, 2024.

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Figures



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

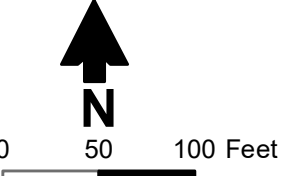
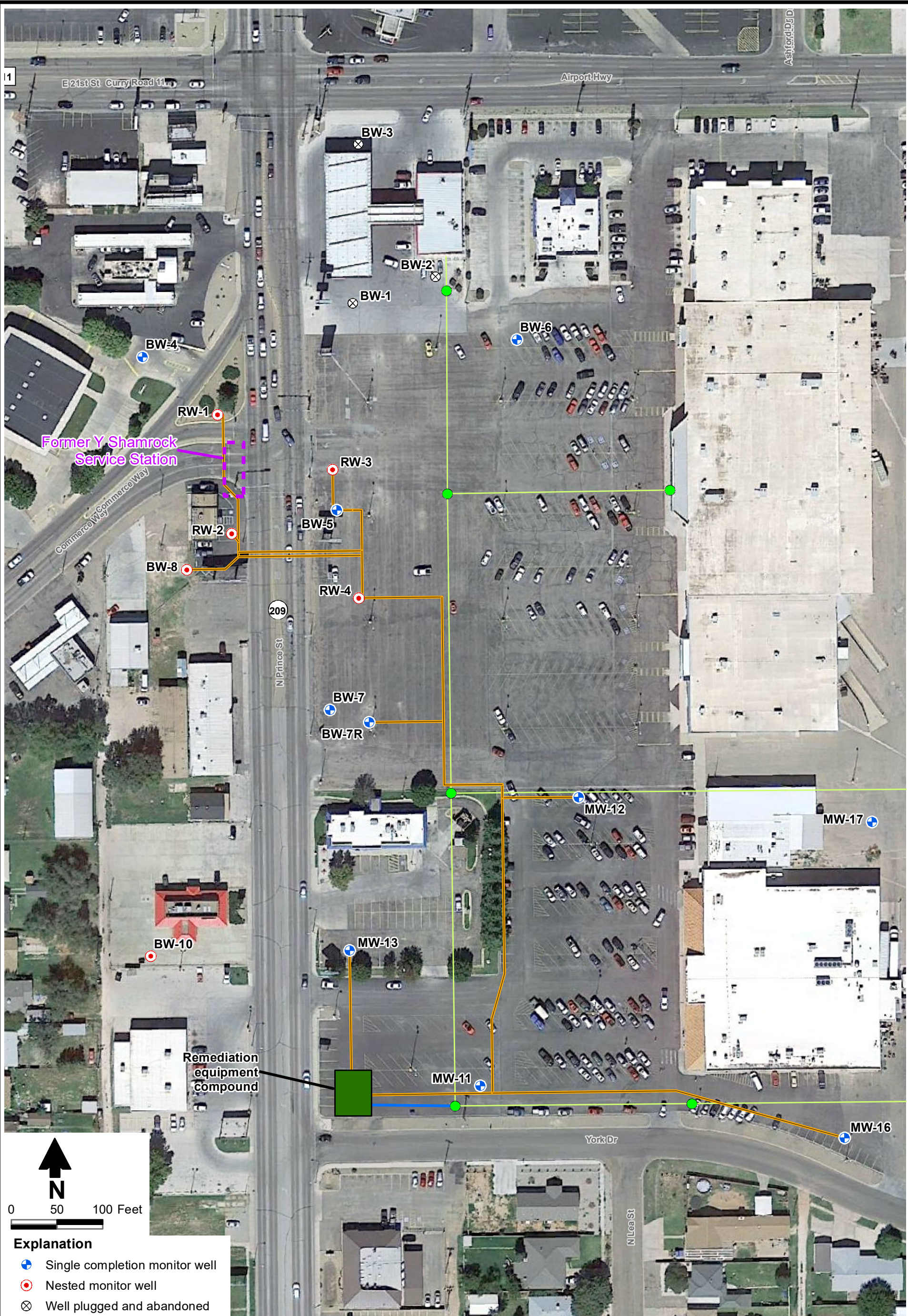


Explanation

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

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

Figure 2

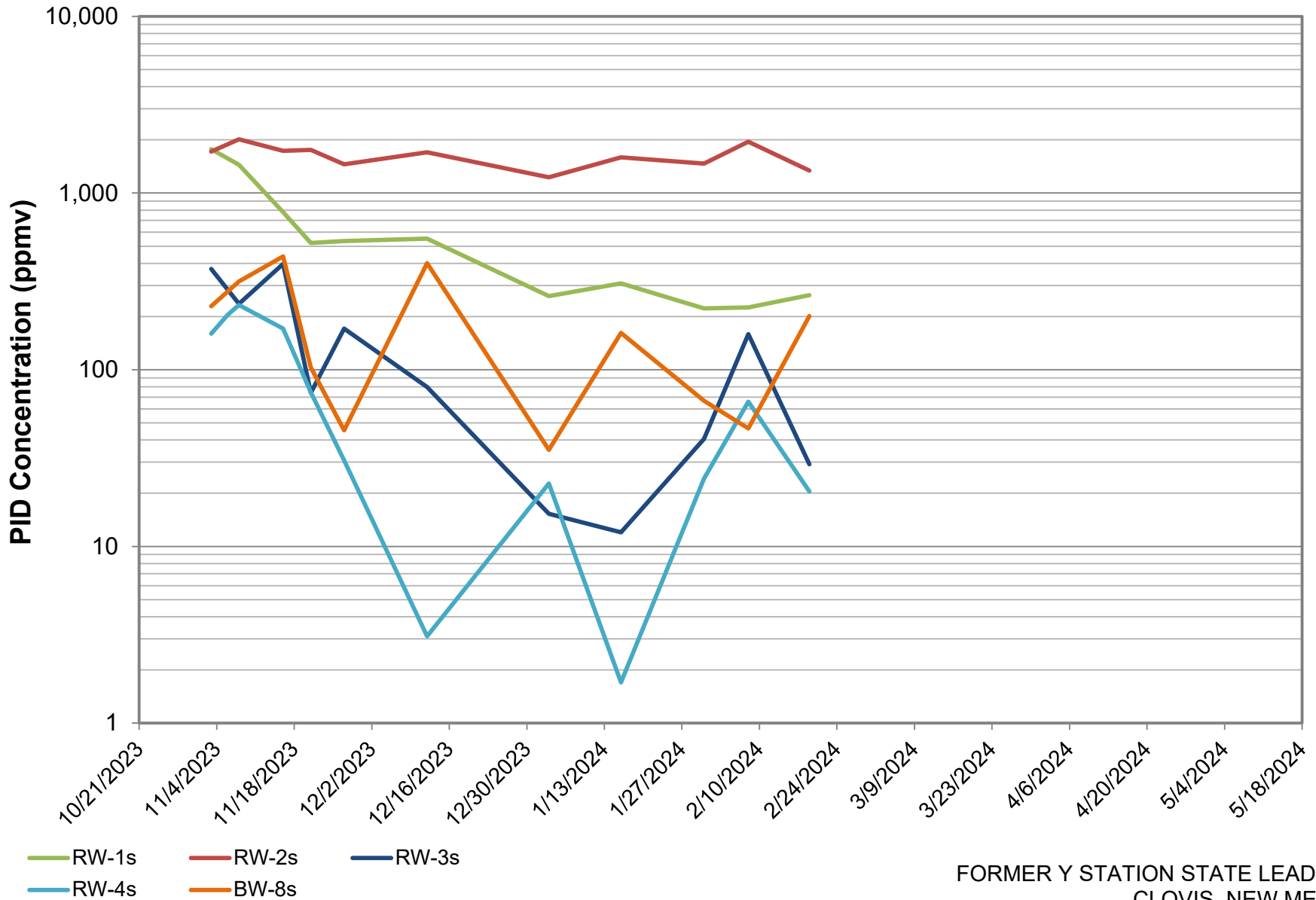


Explanation

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

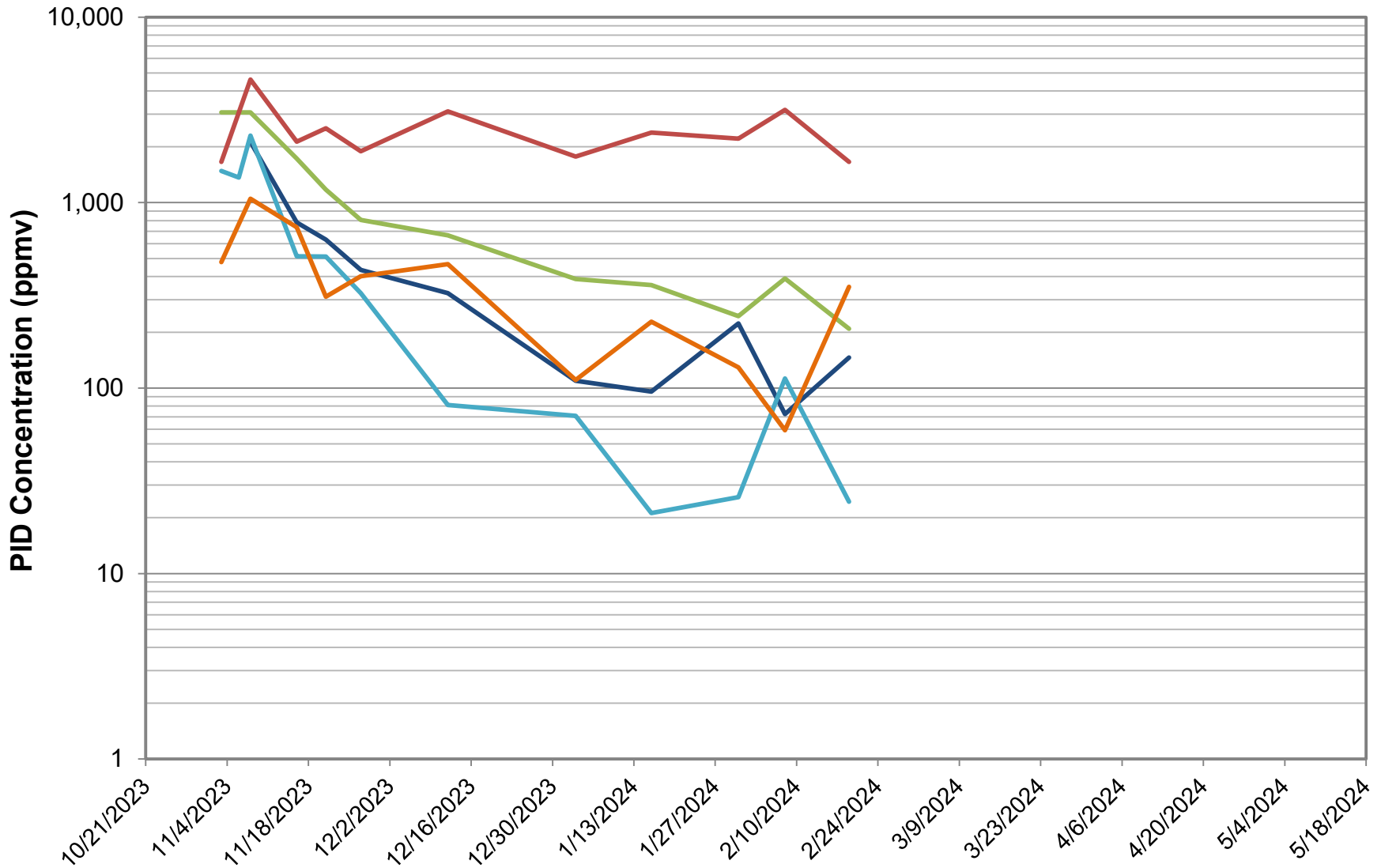
**FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
Remediation System Layout**

Figure 3



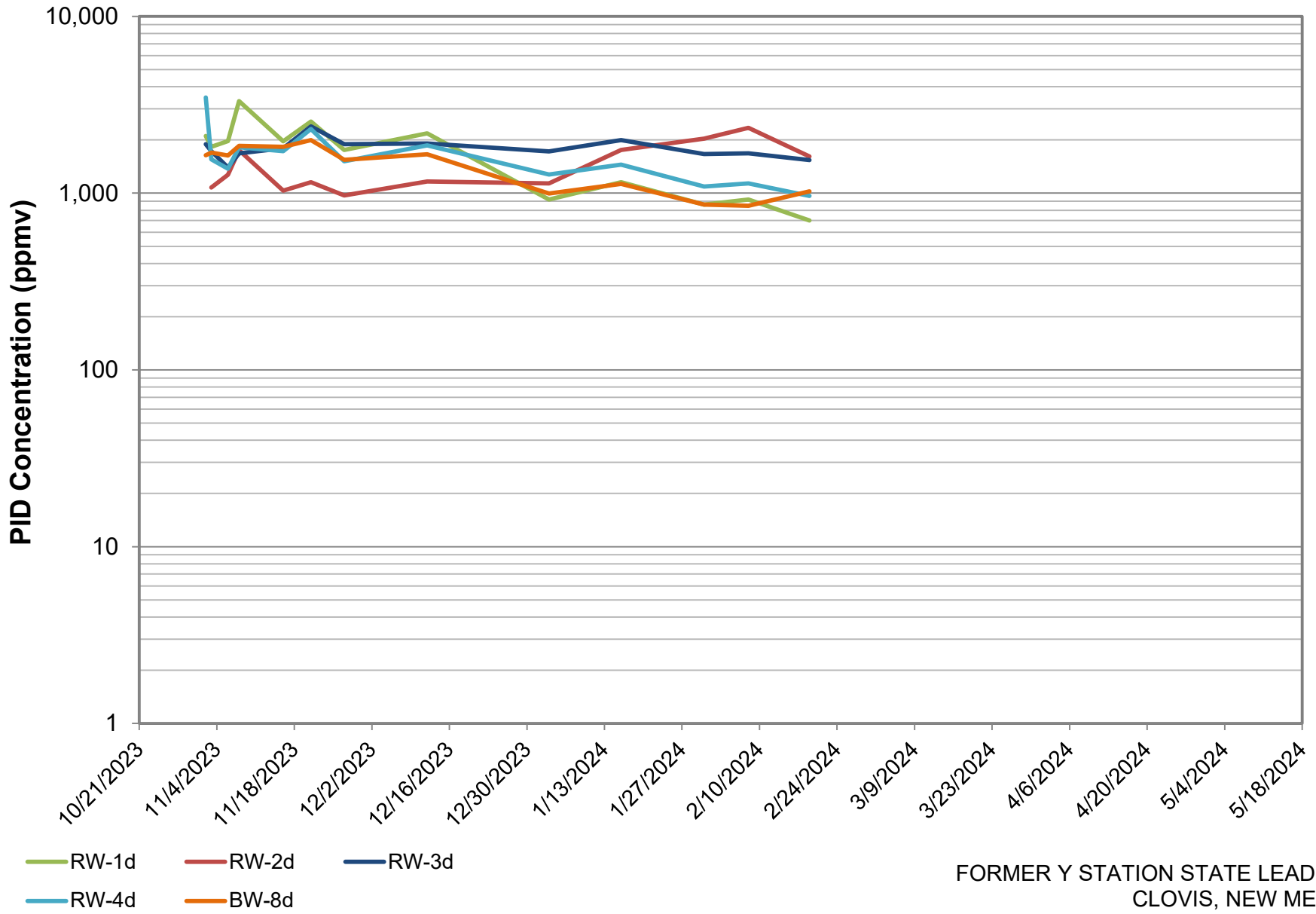
FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
Field Screening PID Readings
Source Area Wells, Shallow Zone

Figure 4



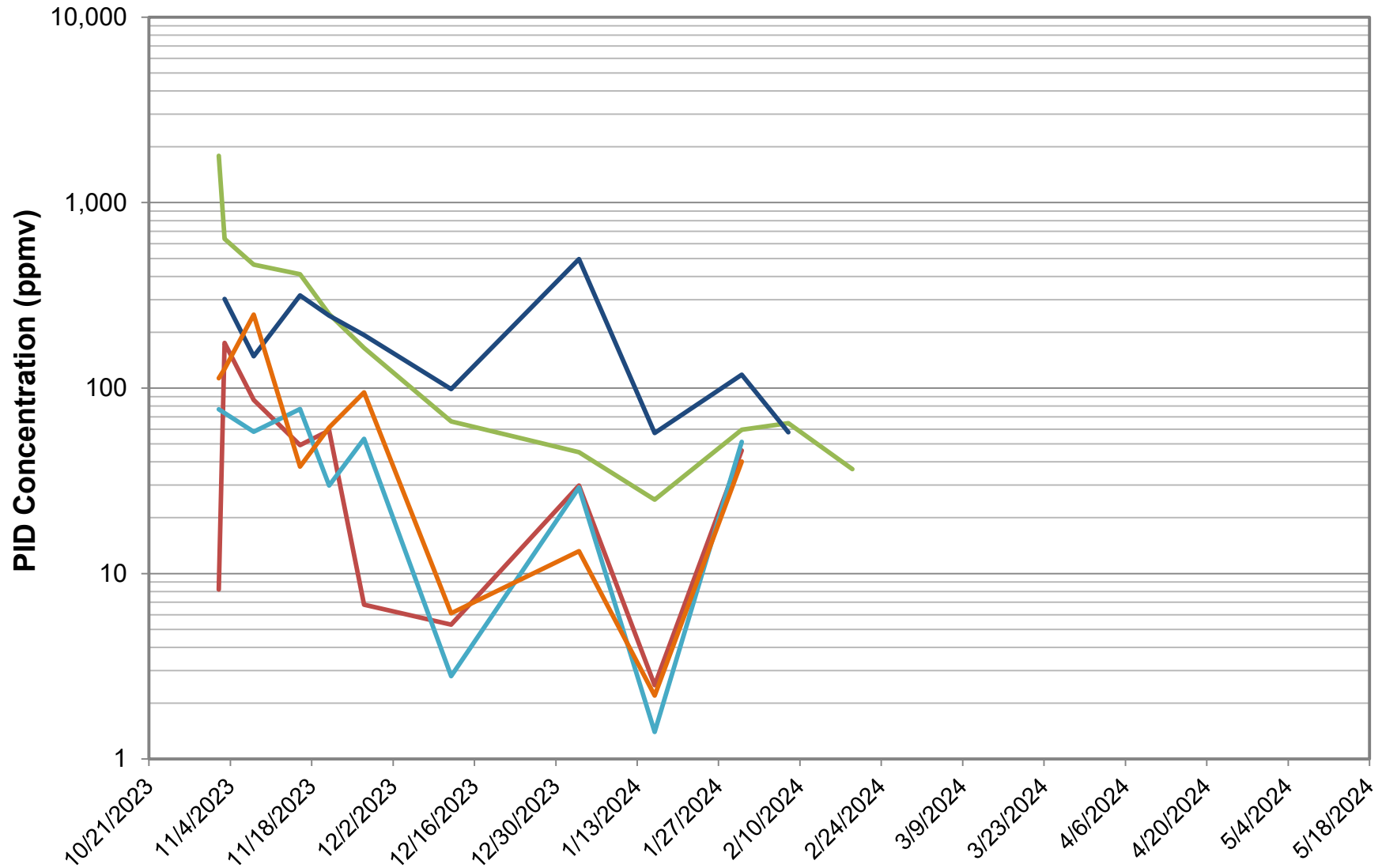
FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
Field Screening PID Readings
Source Area Wells, Intermediate Zone

Figure 5



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

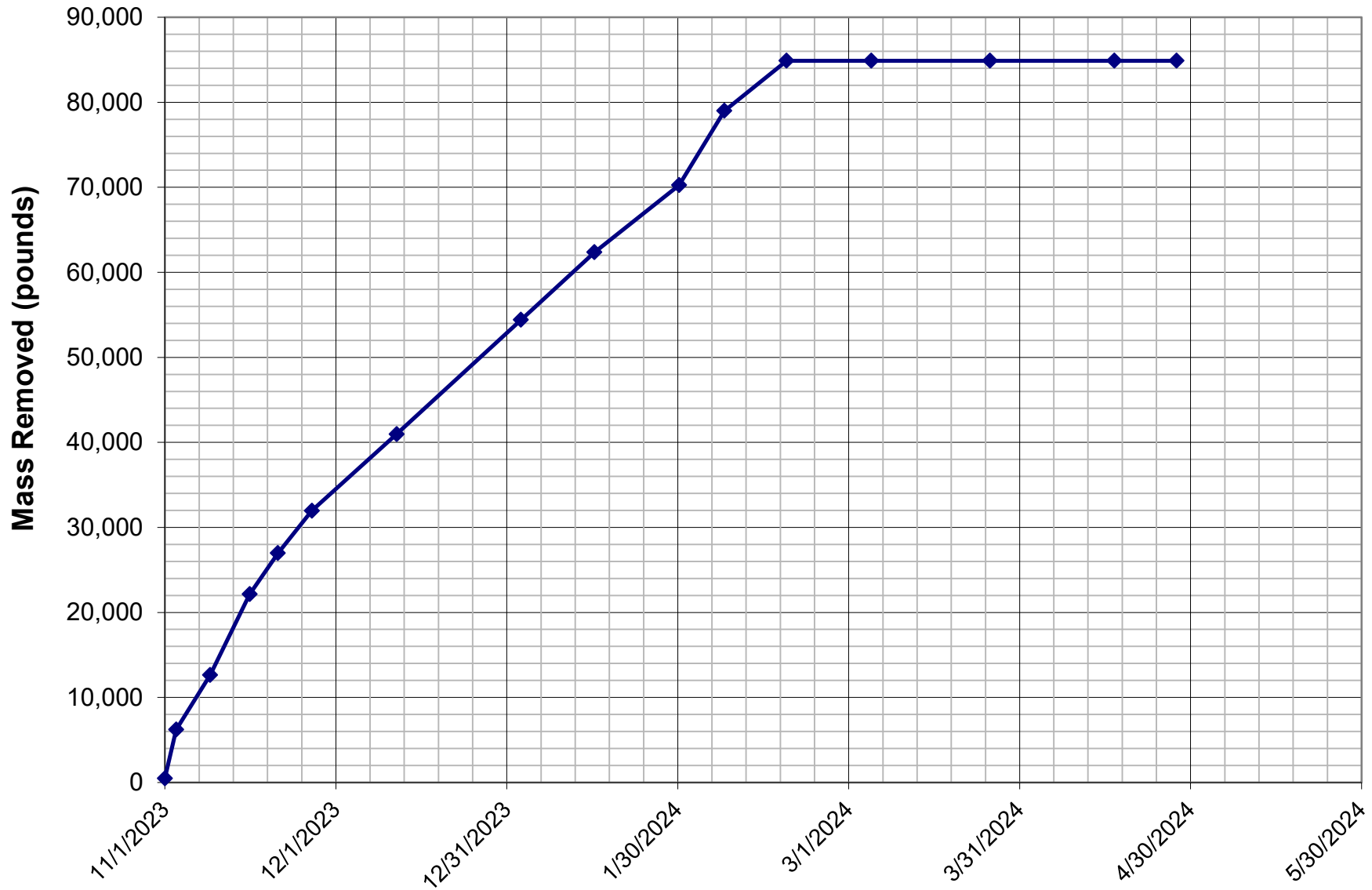
Figure 6



BW-7R MW-11 MW-12
MW-13 MW-16

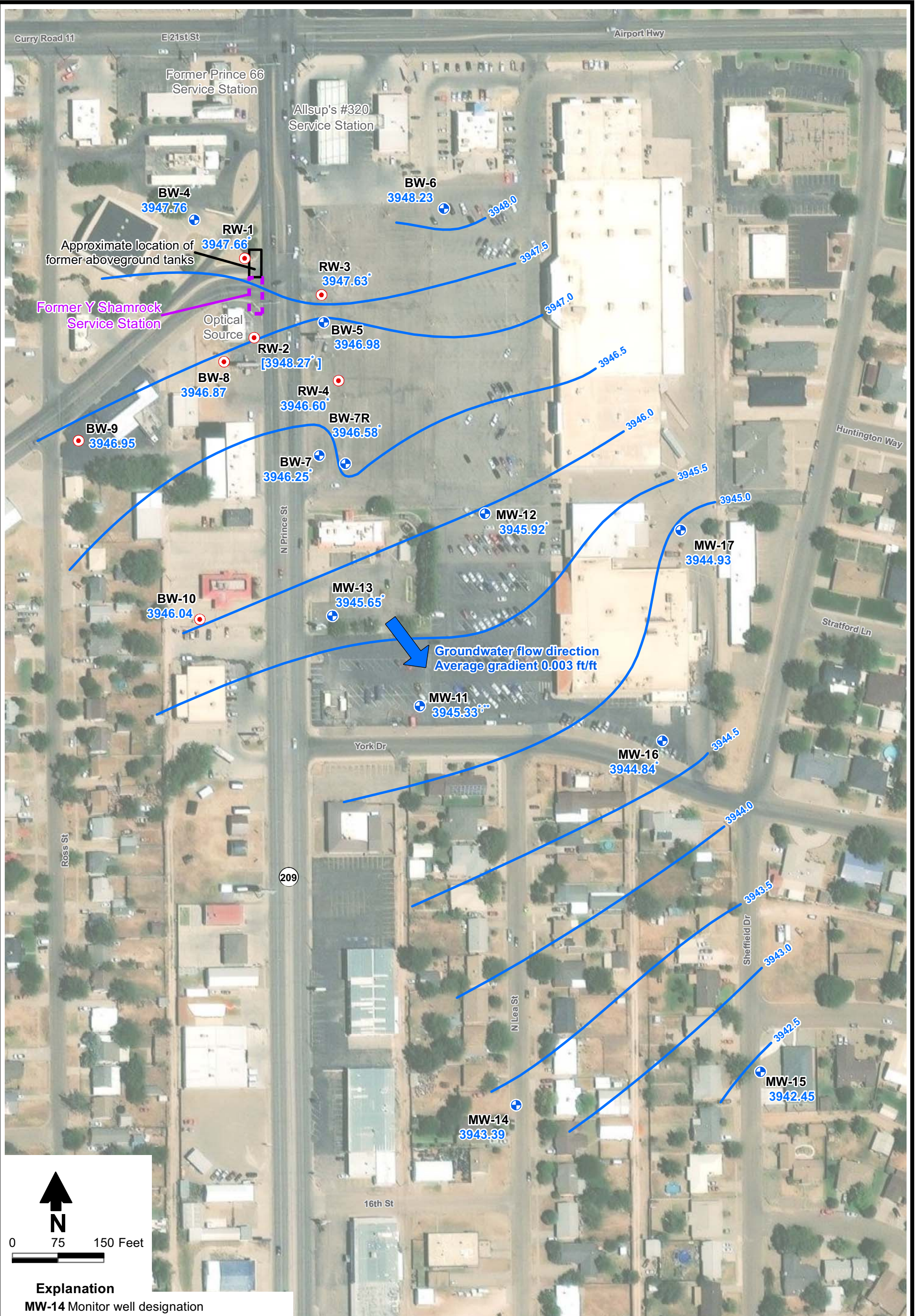
FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO
Field Screening PID Readings
Off-Site Wells

Figure 7



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

Figure 8



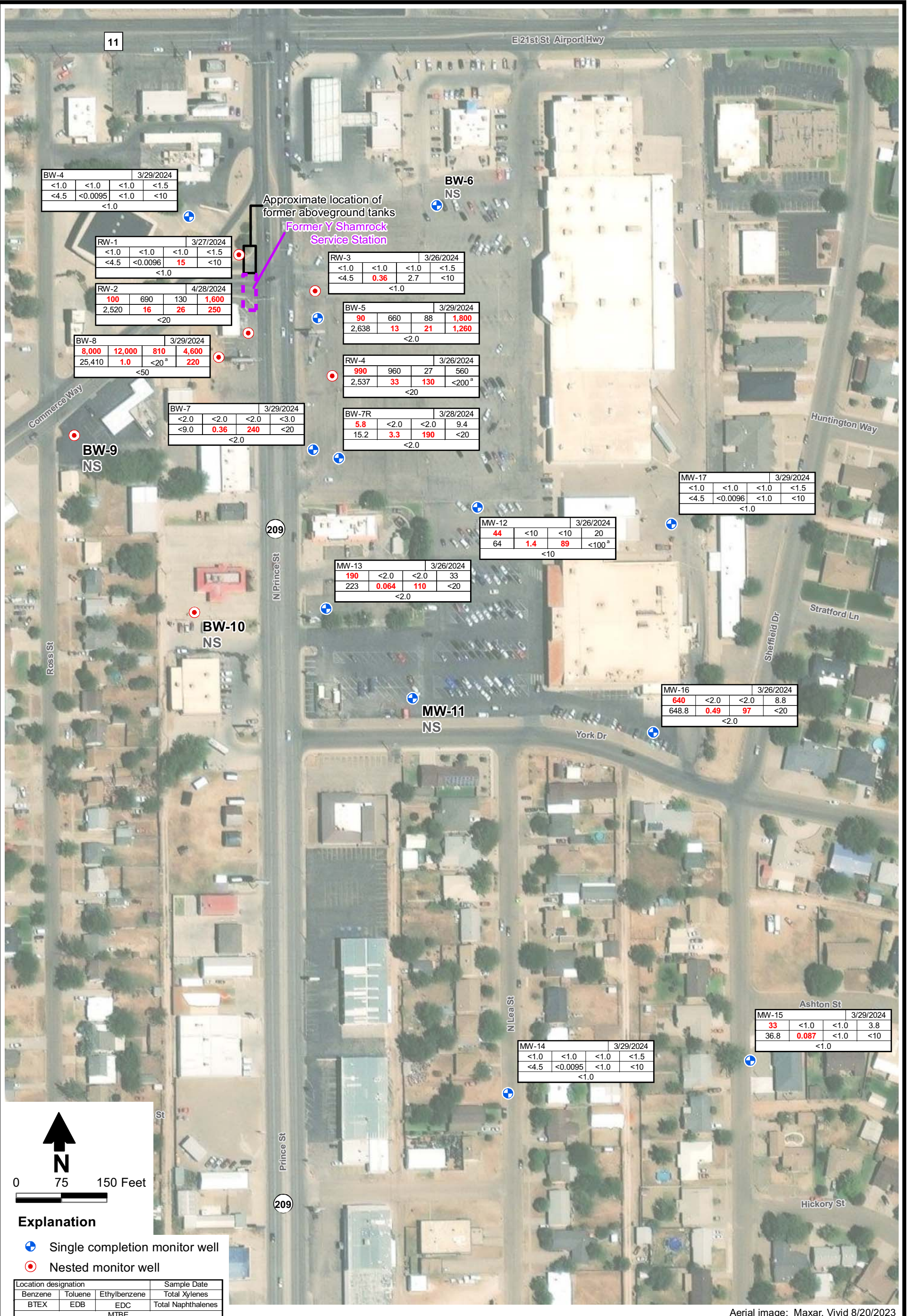
- Explanation**
- MW-14 Monitor well designation
 - 3943.39 Potentiometric surface elevation (ft msl)
 - [3948.27] Well not used for contouring
 - Single completion monitor well
 - Nested monitor well
 - Potentiometric surface elevation contour (ft msl)

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

Aerial image: Maxar, Vivid 8/20/2023

FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
Potentiometric Surface Elevations
 March 29 and 30, 2024

Figure 9

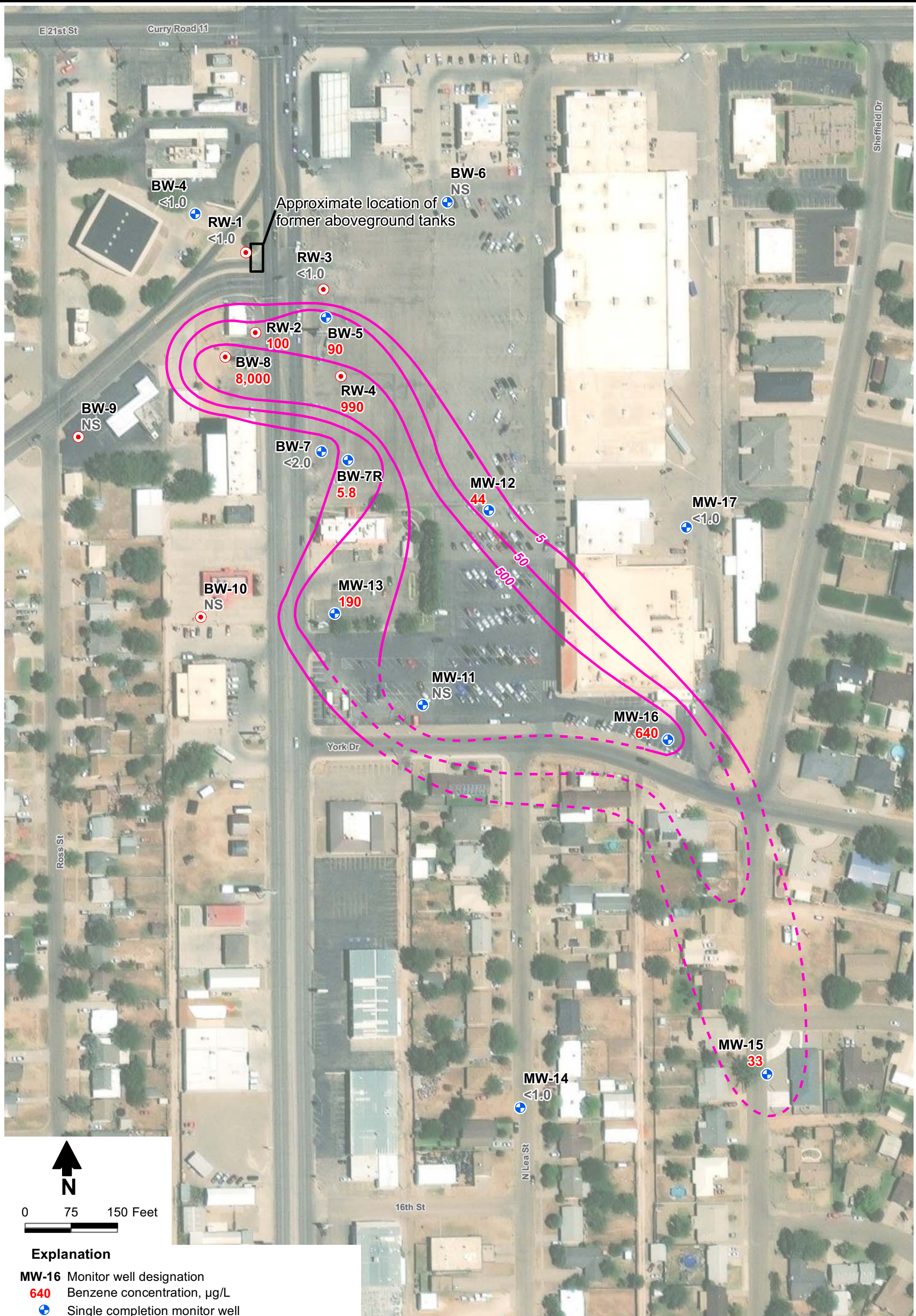


Aerial image: Maxar, Vivid 8/20/2023

- 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
 March and April 2024

Figure 10



Aerial image: Maxar, Vivid 8/20/2023

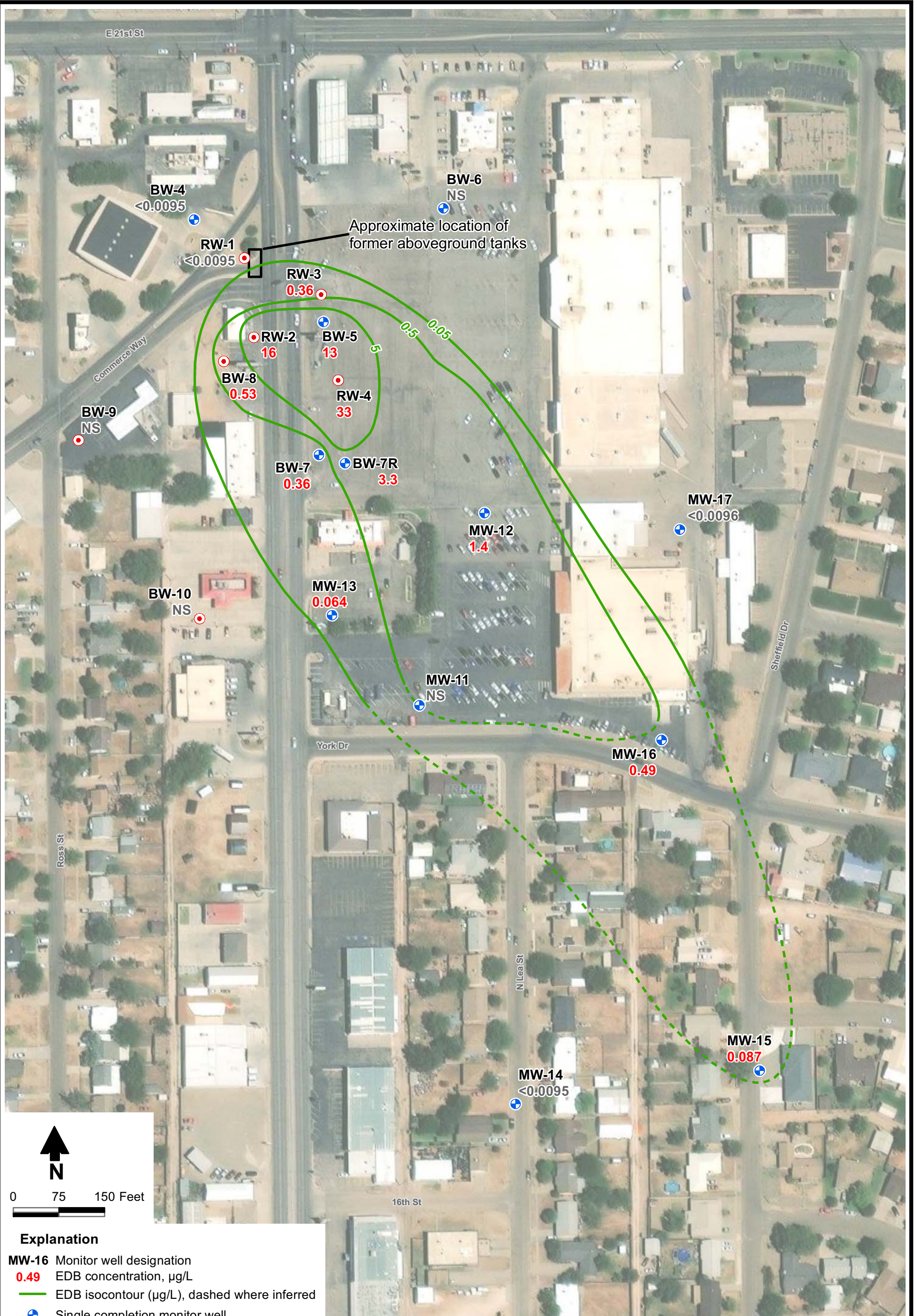
Explanation

- MW-16** Monitor well designation
- 640** Benzene concentration, µg/L
- + Single completion monitor well
- Nested monitor well
- Benzene isocontour (µg/L), dashed where inferred

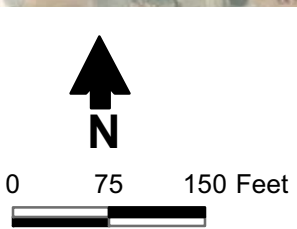
Notes: 1. All concentrations reported in micrograms per liter (µg/L).
 2. **RED** indicates concentration that exceeds NMWQCC standard.
 3. Samples on this figure were collected using HydraSleeve sampling devices.

FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
Benzene Isoconcentration Map
 March and April 2024

Figure 11



Aerial image: Maxar, Vivid 8/20/2023



Explanation

- MW-16** Monitor well designation
- 0.49** 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.

FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
EDB Isoconcentration Map
 March and April 2024

Figure 12



Figure 13

Tables

Table 1. SVE System Manifold and Oxidizer Operation Data

Date	Oxidizer Hours	Time	SVE Line 1			SVE Line 2			SVE Line 3			Combined Influent			Oxidizer Effluent	DPE Blower	
			PID (ppmv)	Flow ^a (cfm)	Vac ^b (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac ^b (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac ^b (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac ^b (in. H ₂ O)	PID (ppmv)	Flow ^c (cfm)	Vac ^d (in. H ₂ O)
11/1/2023	NA	13:56	7,332	581	42	398	222	41	NA	NA	NA	15,000	902	42	3,193	NA	NA
11/2/2023	31	8:45	2,231	932	47	312	267	47	NA	NA	NA	1,718	761	48	1,374	NA	42
11/3/2023	58	15:08	1,505	675	44	261	288	44	NA	NA	NA	1,446	1,005	44	481	762	47
11/8/2023	175	7:10	1,804	NA	45	312	NA	44	70	NA	45	1,564	NA	45	399	750	50
11/16/2023	368	14:10	1,703	815	44	230	292	44	169	66	43	1,368	1,008	45	219	766	48
11/21/2023	485	13:47	1,885	843	46	195	304	46	9	64	45	1,523	1,031	47	171	762	53
11/27/2023	633	13:16	1,480	674	50	142	295	49	77	66	48	1,105	946	50	92	765	53
12/12/2023	963	8:00	1,525	1,460	53	78	311	50	56	72	51	825	950	51	46	775	56
1/3/2024	1,463	7:30	1,293	1,079	53	76	353	52	15	82	51	788	1,090	54	189	775	56
1/16/2024	1,756	14:00	538	1,351	57	31	485	48	25	127	48	702	1,400	55	54	781	57
1/31/2024	2,115	8:30	1,243	1,419	54	132	378	52	NR	NR	21	896	1,285	54	82	764	59
2/8/2024	2,301	8:40	1,329	1,290	3,695	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																	

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

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

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

^d Vacuum reading taken from SVE system control panel.

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

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

Notes are provided at the end of the table.

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

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

Notes are provided at the end of the table.

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

Date	Time	MW-11			MW-12			MW-13			MW-16		
		PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)	PID (ppmv)	Flow ^a (cfm)	Vac (in. H ₂ O)
11/2/2023	NA	8	67	32	NA	NA	NA	77	3	1	113	108	35
11/3/2023	NA	175	64	38	303	64	34	NA	NA	NA	127	98	34
11/6/2023	15:49	NA	NA	35	NA	NA	NA	NA	NA	33	NA	NA	33
11/8/2023	7:26	86	NA	39	148	NA	7	58	NA	36	249	NA	35
11/16/2023	7:39	49	64	35	316	64	32	77	65	33	38	102	31
11/21/2023	15:45	59	60	37	246	64	33	30	63	35	61	96	33
11/27/2023	13:46	7	59	39	193	64	35	53	64	36	95	96	36
12/12/2023	8:00	5	66	41	99	58	38	3	55	36	6	93	36
1/3/2024	10:30	30	53	41	497	60	35	29	53	36	13	86	36
1/16/2024	8:00	3	69	40	57	70	33	1	65	34	2	115	34
1/31/2024	8:30	46	69	41	118	76	37	51	0	2	40	109	36
2/8/2024	8:40	Off			58	92	49	Off			Off		
2/19/2024	13:00	Off			NR	NR	NR	Off			Off		
3/5/2024	SVE system off due to thermal oxidizer fault												
3/26/2024													
4/17/2024													
4/28/2024													

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

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

Date	Time	RW-1		RW-2		RW-3		RW-4		BW-7R		MW-11		MW-12	
		Totalized Flow ^a (gallons)	Transducer (feet) ^b	Totalized Flow ^a (gallons)	Transducer (feet) ^b	Totalized Flow ^a (gallons)	Transducer (feet) ^b	Totalized Flow ^a (gallons)	Transducer (feet) ^b	Totalized Flow ^a (gallons)	Transducer (feet) ^b	Totalized Flow ^a (gallons)	Transducer (feet) ^b	Totalized Flow ^a (gallons)	Transducer (feet) ^b
<i>OSE POD Number</i>		<i>CC-02536 POD1</i>		<i>CC-02536 POD2</i>		<i>CC-02536 POD3</i>		<i>CC-02536 POD4</i>		<i>CC-02536 POD5</i>		<i>CC-02536 POD6</i>		<i>CC-02536 POD7</i>	
<i>Meter Serial Number</i>		<i>20 006378 NL</i>		<i>20 006383 NL</i>		<i>20 006383 NL</i>		<i>20 006382 NL</i>		<i>20 006376 NL</i>		<i>20 006379 NL</i>		<i>20 006585 NL</i>	
11/1/2023	—	Remediation system started													
11/3/2023	11:10	4,836	22.8	NA	23.4	12,760	29.9	11,973	22.2	5,132	8.6	5,483	23.0	192	26.5
11/3/2023	17:50	4,897	24.7	NA	23.6	14,144	30.1	13,271	22.5	5,240	27.5	6,134	23.2	192	26.6
11/6/2023	16:00	10,769	19.5	NA	24.4	33,072	30.1	18,279	20.6	5,240	27.6	15,491	22.7	192	26.5
11/8/2023	07:10	14,300	20.9	3,900	24.0	44,800	30.1	43,100	17.7	5,100	27.5	20,600	22.7	200	26.4
11/16/2023	08:34	25,470	21.9	9,000	26.6	91,200	30.3	98,200	20.8	5,100	22.1	43,320	22.9	187	26.7
11/21/2023	13:47	33,950	20.6	10,788	26.3	126,724	30.0	98,200	20.1	12,334	21.9	62,089	22.0	192	26.3
11/27/2023	13:16	48,290	20.3	12,393	25.8	165,275	30.5	99,132	19.0	14,800	19.4	85,413	22.1	200	26.4
11/30/2023	16:09	54,372	NA	13,904	NA	181,562	NA	NR	NA	18,153	NA	94,840	NA	7,123	NA
12/12/2023	12:38	81,199	15.0	17,932	26.6	248,489	31.3	99,939	24.1	25,628	24.6	127,699	22.5	156,674	23.3
12/31/2023	10:02	133,617	14.5	18,517	25.1	336,611	32.8	183,938	28.4	33,091	26.3	175,035	24.5	106,166	24.5
1/3/2024	10:30	142,450	14.8	18,519	25.1	345,877	33.2	192,448	28.5	34,042	26.3	181,571	25.0	114,510	24.6
1/16/2024	12:30	167,900	16.4	27,500	25.9	379,000	32.8	242,480	26.2	50,900	24.2	205,100	25.6	157,300	22.8
1/31/2024	08:27	194,844	14.4	43,665	25.9	384,143	33.4	305,807	27.4	71,407	20.8	220,760	26.7	197,652	24.0
1/31/2024	15:40	195,413	14.4	44,012	25.8	384,143	33.4	307,094	27.3	71,786	20.8	221,050	26.7	198,282	24.0
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	MW-13		MW-16		Treated Discharge
		Totalized Flow ^a (gallons)	Transducer (feet) ^b	Totalized Flow ^a (gallons)	Transducer (feet) ^b	Totalized Flow ^a (gallons)
<i>OSE POD Number</i>		<i>CC-02536 POD8</i>		<i>CC-02548 POD3</i>		<i>NA</i>
<i>Meter Serial Number</i>		<i>20 004229 NL</i>		<i>20 006384 NL</i>		<i>20 004230 NL</i>
11/1/2023	—	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

Notes are provided on the next page.

Table 3. Water Flow Meter Readings for Individual Wells and Treated Discharge
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^a Flow meters are all Pulsafeeder Multijet Model PME.

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

OSE = Office of the State Engineer

POD = Point of diversion

NA = Not available

Table 4. Analytical Organic Chemistry Data for the Remediation System, Air
Page 1 of 3

Sampling Point	Date Sampled	Concentration ^a (µg/L)						
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	TPH GRO
DTA Effluent	11/3/2023	0.27	1.3	0.27	1.9	3.7	<0.25	18
	11/9/2023 ^b	374	547	33	144	1,098	<1.00	16,600
	11/16/2023	19	19	2.3	17	57.3	<0.25	180
	11/28/2023	16	15	1.6	17	49.6	<0.25	160
	2/19/2024	1.5	1	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
SVE Combined Influent	11/1/2023	450	880	66	320	1,716	<25	36,000
	11/3/2023	490	1,000	80	410	1,980	<25	34,000
	11/9/2023	314	372	10.2	34.4	731	<1.00	13,800
	11/16/2023	330	740	57	330	1,457	<25	16,000
	11/21/2023	240	540	44	250	1,074	<25	12,000
	11/28/2023	170	450	37	220	877	<25	9,800
	12/12/2023	130	320	23	120	593	<25	7,800
	1/3/2024	99	340	29	150	618	<25	7,700
	1/16/2024	86	330	30	150	596	<25	7,700
	1/31/2024	64	260	23	110	457	<25	6,500
	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							

Notes are provided at the end of the table.

Table 4. Analytical Organic Chemistry Data for the Remediation System, Air
Page 2 of 3

Sampling Point	Date Sampled	Concentration ^a (µg/L)						
		Benzene	Toluene	Ethyl- benzene	Total Xylenes	BTEX	MTBE	TPH GRO
SVE Combined Influent (cont.)	4/17/2024	SVE system off due to thermal oxidizer fault						
	4/28/2024							
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	14.86	<0.25	55
	1/3/2024	6.0	3.6	0.24	0.80	10.6	<0.25	36
	1/16/2024	6.8	6.3	0.48	2.0	15.58	<0.20	74
	1/31/2024	4.0	7.0	1	6.00	18.00	<0.20	76
	2/8/2024	3.7	9.4	2.0	12	27.1	<0.25	110
	2/19/2024	2.9	2.6	0.32	1.9	7.72	<0.25	27
	3/5/2024	SVE system off due to thermal oxidizer fault						
	3/26/2024							
	4/17/2024							
4/28/2024								

Notes are provided on the next page.

Table 4. Analytical Organic Chemistry Data for the Remediation System, Air
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^a Analyzed using U.S. Environmental Protection Agency (EPA) methods 8021B for volatile organic compounds (VOCs) and 8015B for total petroleum hydrocarbons (TPH).

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

µg/L = Micrograms per liter

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

MTBE = Methyl tertiary-butyl ether

GRO = Gasoline-range organics

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

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

Notes are provided at the end of the table.

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

Well Name	Date Sampled	Concentration ^a (µg/L)									
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB ^b	EDC	PAHs	TPH GRO
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>	<i>NA</i>
GW Treated Effluent (cont.)	11/16/2023	59	38	2.4	25	124.4	<1.0	6.3	30	12	450
	11/22/2023	39	26	1.5	19	85.5	<1.0	3.4	19	7.9	360
	11/28/2023	58	29	1.3	20	108.3	<1.0	5.4	25	8.0	460
	12/14/2023	21	15	<1.0	11	47	<1.0	4.4	19	4.9	240
	1/3/2024	5.4	2.6	<1.0	2.5	10.5	<1.0	1.4	5.5	2.6	120
	1/16/2024	8.2	5.9	<1.0	4.8	18.9	<1.0	1.8	10	2.6	170
	1/31/2024	3.0	1.9	<1.0	1.6	6.5	<1.0	1.2	5.0	<10	90
	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

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

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

^b Analyzed using EPA method 8011/504.1

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

^d Reported as naphthalene only.

µg/L = Micrograms per liter

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

MTBE = Methyl tertiary-butyl ether

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

PAHs = Polycyclic aromatic hydrocarbons (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 2

Well Name	Date Sampled	Concentration ^a (mg/L)			
		Chloride	Nitrate (as N)	Sulfate	TDS ^b
<i>NMWQCC Standard</i>		<i>250</i>	<i>10</i>	<i>600</i>	<i>1,000</i>
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	
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

Notes are provided at the end of the table.

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

Well Name	Date Sampled	Concentration ^a (mg/L)			
		Chloride	Nitrate (as N)	Sulfate	TDS ^b
<i>NMWQCC Standard</i>		250	10	600	1,000
GW Treated Effluent (cont.)	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
	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

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

^b Analyzed using SM 2540C Mod.

mg/L = Milligrams per liter

TDS = Total dissolved solids

NMWQCC = New Mexico Water Quality Control Commission

GW = Groundwater

NA = Not analyzed

Table 7. Utility Usage Summary

Electric (Xcel)				Natural Gas (NM Gas Co)			
Service Address: 1901 N. Prince Street Unit Container				Service Address: 1901 N Prince St			
Account #: 54-0013827214-6				Account #: 000237605-1412631-4			
Meter #: 160137895				Meter #: 1691600			
Read Date	Days Billed	kWh Used	Total Charges	Read Date	Days Billed	Therms	Total Charges
9/29/2023	START						
10/10/2023	11	19	\$8.95	10/6/2023	START		\$82.57
11/9/2023	29	4,490	\$469.04	11/6/2023	31	1,124	\$847.87
12/12/2023	34	21,806	\$1,463.34	12/7/2023	31	10,730	\$8,324.94
1/11/2024	30	20,034	\$1,358.28	1/6/2024	30	12,154	\$8,759.54
2/12/2024	31	25,099	\$1,734.42	2/6/2024	31	12,697	\$8,897.61
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
Daily average		446	\$34.98			198	\$143.50
Daily average, 1Q		705	\$47.96			387	\$282.41
Daily average, 2Q		406	\$34.68			151	\$104.73

Table 8. Fluid Level Measurements
Page 1 of 14

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 14

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			
BW-5	273.5–348.5	4,278.99	4/29/2014	325.53	—	0.00	3,953.46
			5/8/2015	326.27	—	0.00	3,952.72

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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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	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			
3/29/2024	332.03	332.01	0.02	3,946.98			
BW-6	275–345	4,280.24	4/29/2014	326.46	—	0.00	3,953.78
			5/8/2015	327.27	—	0.00	3,952.97
			9/10/2015	327.60	—	0.00	3,952.64
			3/29/2016	327.70	—	0.00	3,952.54

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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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	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
3/29/2024	332.01	—	0.00	3,948.23			
BW-7	284–349	4,277.47	4/29/2014	324.63	—	0.00	3,952.84
			5/8/2015	325.42	—	0.00	3,952.05
			9/10/2015	325.84	—	0.00	3,951.63
			3/29/2016	326.01	—	0.00	3,951.46
			7/26/2016	326.14	—	0.00	3,951.33
			3/6/2019	326.88	—	0.00	3,950.59
			5/20/2019	327.11	—	0.00	3,950.36

Notes are provided at the end of the table.

Table 8. Fluid Level Measurements
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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	8/13/2019	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
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			
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

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	2/14/2019 ^d	327.73	—	0.00	3,951.01
			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	—
		12/14/2023	330.47		—	0.00	3,947.42
		3/29/2024	331.02		—	0.00	3,946.87
BW-9	287–347	4,278.31	3/29/2016	326.30	—	0.00	3,952.01
			7/26/2016	326.60	—	0.00	3,951.71
			3/6/2019	327.33	—	0.00	3,950.98
			5/2/2019 ^d	327.67	—	0.00	3,950.64
			5/20/2019	327.44	—	0.00	3,950.87
			8/13/2019	327.81	—	0.00	3,950.50
			9/17/2019	327.74	—	0.00	3,950.57
			6/8/2020	328.11	—	0.00	3,950.20

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	9/9/2020	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
BW-10	306–346	4,275.11	3/29/2016	323.92	—	0.00	3,951.19
			7/26/2016	324.21	—	0.00	3,950.90
			3/6/2019	324.96	—	0.00	3,950.15
			5/20/2019	324.99	—	0.00	3,950.12
			8/13/2019	325.44	—	0.00	3,949.67
			9/17/2019	325.30	—	0.00	3,949.81
			6/8/2020	325.77	—	0.00	3,949.34
			9/9/2020	326.15	—	0.00	3,948.96
			12/27/2020	326.23	—	0.00	3,948.88
			3/19/2021	326.35	—	0.00	3,948.76
			12/13/2023	329.14	—	0.00	3,945.97
			3/29/2024	329.07	—	0.00	3,946.04
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

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-11 (cont.)	285.5–355.5	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
MW-12	286.5–356.7	4,277.60	8/13/2019	328.16	—	0.00	3,949.44
			9/20/2019	328.14	—	0.00	3,949.46
			6/8/2020	328.60	—	0.00	3,949.00
			9/9/2020	328.93	—	0.00	3,948.67
			12/27/2020	329.05	—	0.00	3,948.55
			3/20/2021	329.22	—	0.00	3,948.38
		4,277.32 ^e	12/13/2023 ^f	334.8	—	0.00	3,942.52
			12/14/2023 ^f	331.2	—	0.00	3,946.12
			3/29/2024 ^f	331.4	—	0.00	3,945.92
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

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	4,275.82	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
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	
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	

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-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
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
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

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-1 (cont.)	264.9–355.3	4,279.56 ^e	12/13/2023 ^f	343.4	—	0.00	3,936.16
			12/14/2023 ^f	331.7	—	0.00	3,947.86
			3/29/2024 ^f	331.9	—	0.00	3,947.66
RW-2	289.8–360.1	4,279.70	8/13/2019	329.00	—	0.00	3,950.70
			9/18/2019	328.97	—	0.00	3,950.73
			6/8/2020	329.28	—	0.00	3,950.42
			9/9/2020	329.58	—	0.00	3,950.12
			12/27/2020	329.77	—	0.00	3,949.93
			3/19/2021	330.07	329.72	0.35	3,949.89
		4,278.97 ^e	12/13/2023 ^f	332.9	—	0.00	3,946.07
		12/14/2023 ^f	331.8	—	0.00	3,947.17	
		3/29/2024 ^f	330.7	—	0.00	3,948.27	
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	

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	291.2–361.5	4,278.84	9/19/2019	328.48	—	0.00	3,950.36
			6/8/2020	328.85	—	0.00	3,949.99
			9/9/2020	329.18	—	0.00	3,949.66
			12/27/2020	329.27	—	0.00	3,949.57
			3/19/2021	329.38	—	0.00	3,949.46
		4,278.10 ^e	12/13/2023 ^f	341.6	—	0.00	3,936.50
			12/14/2023 ^f	331.2	—	0.00	3,946.90
			3/29/2024 ^f	331.5	—	0.00	3,946.60

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

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

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

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

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

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

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

^g Depth to water recorded while remediation system was operating.

bgs = Below ground surface

btoc = Below top of casing

msl = Above mean sea level

LNAPL = Light nonaqueous-phase liquid

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

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
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Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>
BW-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
<i>NMWQCC Standard</i>		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
<i>NMWQCC Standard</i>		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
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
BW-6	4/29/2014	<1.0	10	<1.0	<1.5	10	<1.0	<1.0 ^b	<1.0	<10
	5/7/2015	<1.0	8.4	<1.0	<1.5	8.4	<1.0	<1.0 ^b	<1.0	<10
	9/10/2015	<1.0	36	<1.0	<1.5	36	<1.0	<1.0 ^b	<1.0	<10
	3/29/2016	<1.0	130	<1.0	<1.5	130	<1.0	<1.0 ^b	<1.0	<10
	7/26/2016	<1.0	3.8	<1.0	<1.5	3.8	<1.0	<1.0 ^b	<1.0	<10
	7/11/2018	<1.0	10	<1.0	<1.5	10	<1.0	<1.0 ^b	<1.0	<10
	2/15/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 ^d	<1.0	<10

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
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>
BW-6 (cont.)	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
BW-7	4/30/2014	990	3.4	67	260	1,320	<1.0	2.6	75	21.1
	4/30/2014 ^c	1,100	4.4	74	300	1,478	<1.0	2.9	75	20.1
	5/8/2015	3,200	1,200	210	920	5,530	<1.0	9.6	230	45.5
	9/11/2015	9,400	5,000	750	2,600	17,750	<1.0	36	590	204
	3/31/2016	8,800	2,900	650	2,100	14,450	<1.0	<50 ^b	580	120
	7/28/2016	8,000	1,100	630	1,200	10,930	<50	<50 ^b	500	120
	5/22/2019	1,400	140	100	230	1,870	<5.0	0.24	180	22
	9/18/2019	590	5.3	56	88	739.3	<2.0	0.31^d	120	15
	6/12/2020	240	<2.0	<2.0	<3.0	240	<2.0	0.86^d	65	<20
	9/14/2020	48	<1.0	1.4	<1.5	49.4	<1.0	0.86^d	78	<10
	12/28/2020 ^e	790	<2.0	<2.0	3.1	793.1	<2.0	0.015 ^d	370	<20
	3/20/2021 ^e	1,000	<2.0	13	3.3	1,016.3	<2.0	0.0094 ^d	110	<20
	12/14/2023 ^e	<5.0 ^b	<5.0	<5.0	<7.5	<22.5	<5.0	0.12^d	43	<50 ^b
3/29/2024 ^e	<2.0	<2.0	<2.0	<3.0	<9.0	<2.0	0.36^d	240	<20	

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
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>
BW-7R	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
BW-8	3/31/2016	3,900	5,400	440	2,400	12,140	<1.0	95	210	<500 ^b
	3/31/2016 ^c	4,300	5,900	500	2,700	13,400	<1.0	110	230	100
	7/28/2016	3,600	4,800	380	2,500	11,280	<50	100	180	120
	7/28/2016 ^c	3,400	4,700	380	2,500	10,980	<50	100	180	120
	5/30/2019	4,600	4,200	390	1,200	10,390	<5.0	9.1^d	290	67
	9/18/2019	5,000	4,300	420	1,400	11,120	<10	14^d	270	94
	6/13/2020	7,000	7,900	700	2,500	18,100	<20	0.72^d	190	180
	9/15/2020	4,800	7,500	590	2,600	15,490	<50	0.092^d	95	130
	12/29/2020	4,100	5,600	450	1,800	11,950	<5.0	0.11^d	90	146
	12/29/2020 ^e	15,000	24,000	1,400	7,400	47,800	<20	0.20^d	77	413
	3/21/2021 ^e	14,000	23,000	1,600	6,600	45,200	<50	0.86^d	94	300

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
<i>NMWQCC Standard</i>		5	1,000	700	620	None	100	0.05	5	30
BW-8 (cont.)	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
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
	5/21/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	9/17/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	6/9/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	9/11/2020	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	12/27/2020 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
	3/20/2021 ^e	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10
BW-10	3/29/2016	<1.0	280	<1.0	<1.5	280	<1.0	<1.0 ^b	<1.0	<10
	7/27/2016	<1.0	33	<1.0	<1.5	33	<1.0	<1.0 ^b	<1.0	<10
	5/21/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 ^d	<1.0	<10
	9/17/2019	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 ^d	<1.0	<10

Notes are provided at the end of the table.

Table 9. Groundwater Analytical Organic Chemistry Data
Page 8 of 13

Well Name	Date Sampled	Concentration ^a (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>
BW-10 (cont.)	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
MW-11	9/18/2019	3,300	5.0	280	1,100	4,685	<5.0	5.0 ^d	130	40
	6/13/2020	3,400	8.9	300	620	4,328.9	<10	2.9 ^d	150	39
	9/15/2020	3,300	14	300	520	4,134	<20	1.2 ^d	130	40
	12/29/2020	3,400	5.1	280	450	4,135.1	<1.0	0.93 ^d	120	84
	12/29/2020 ^e	4,400	2.8	310	46	4,758.8	<1.0	0.30 ^d	180	87
	3/20/2021 ^e	3,800	<20	250	38	4,088	<20	0.14 ^d	200	42
	12/12/2023 ^f	3,200	140	150	910	4,400	<20	1.2 ^d	220	51
3/28/2024	Well not sampled due to faulty pump; unable to collect with HydraSleeve									
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

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
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>
MW-12 (cont.)	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
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
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
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>
MW-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
MW-16	6/11/2020	520	8.7	42	140	710.7	<1.0	0.82 ^d	35	3.2
	9/11/2020	920	11	34	300	1,265	<2.0	0.66 ^d	55	7.5
	12/28/2020	1,500	7.3	49	380	1,936.3	<1.0	0.52 ^d	70	18.1
	12/28/2020 ^e	55	<1.0	2.7	29	86.7	<1.0	0.25 ^d	30	<10
	3/20/2021 ^e	10	<1.0	<1.0	2.6	12.6	<1.0	0.30 ^d	27	<10
	12/12/2023 ^e	1,500	<1.0	<1.0	39	1,539	<1.0	0.74 ^d	77	7.7
	3/26/2024 ^e	640	<2.0	<2.0	8.8	648.8	<2.0	0.49 ^d	97	<20
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

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
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>
MW-17 (cont.)	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
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
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

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
<i>NMWQCC Standard</i>		<i>5</i>	<i>1,000</i>	<i>700</i>	<i>620</i>	<i>None</i>	<i>100</i>	<i>0.05</i>	<i>5</i>	<i>30</i>
RW-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
	3/26/2024 ^f	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	0.36^d	2.7	<10
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

Notes are provided on the next page.

Table 9. Groundwater Analytical Organic Chemistry Data Page 13 of 13

Bold indicates that value equals or exceeds the New Mexico Water Quality Control Commission (NMWQCC) standard.
Pre-May 2, 2019 data reported by Brown Environmental, Inc. (BEI, 2016).

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

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

^c Duplicate sample.

^d Samples analyzed using EPA method 504.1.

^e Sample collected using HydraSleeve sampling device.

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

µg/L = Micrograms per liter

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

MTBE = Methyl tertiary-butyl ether

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

LNAPL = Light nonaqueous-phase liquid

HS = HydraSleeve

Table 10. LNAPL Recovery from Site Wells

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

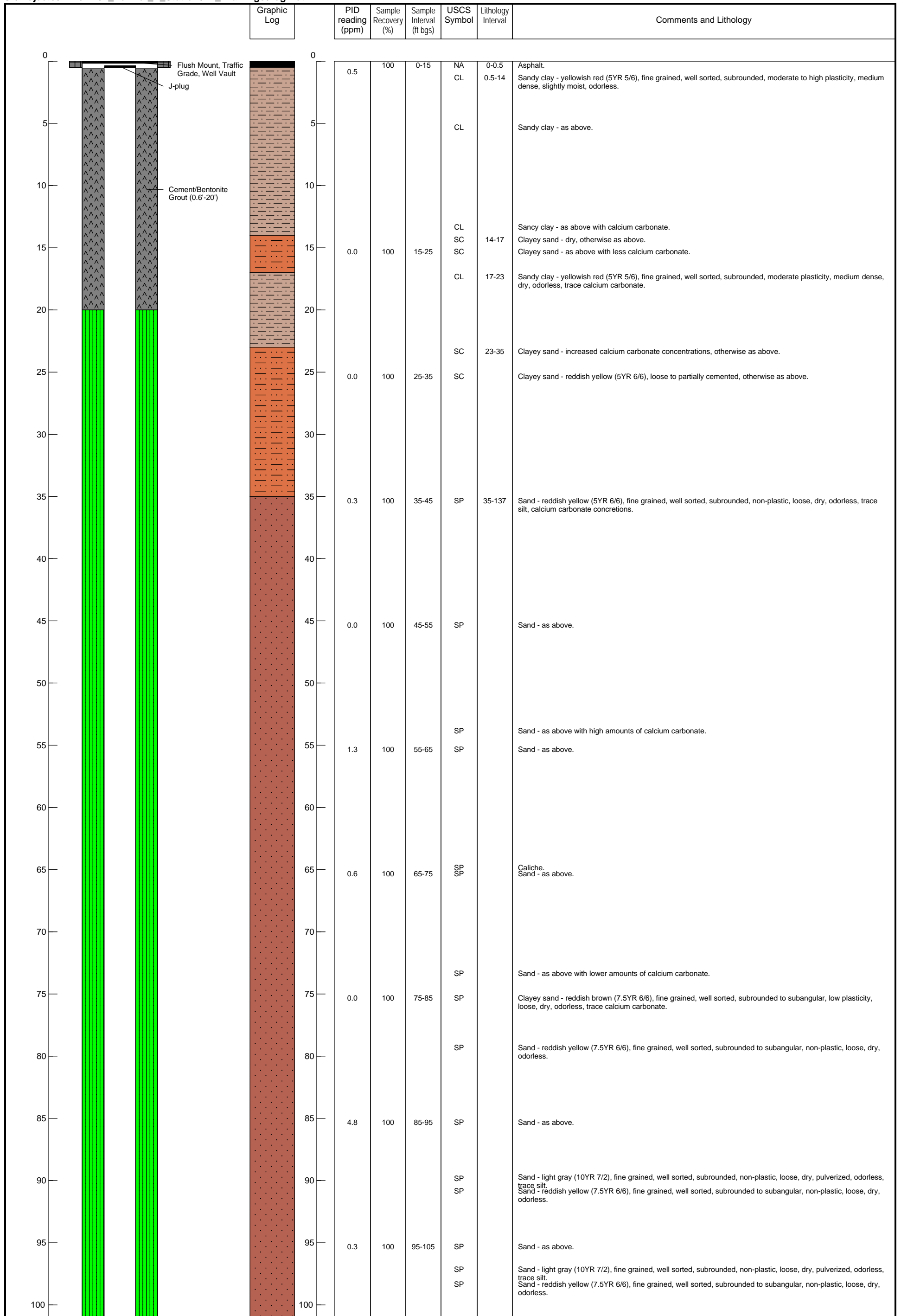
^a Depth to water (DTW) before correction for light nonaqueous-phase liquid (LNAPL) thickness.

^b DTW corrected for LNAPL thickness using the following equation: DTW = DTW – (LNAPL thickness x 0.75).

btoc = Below top of casing

Appendix A

Well Boring Logs



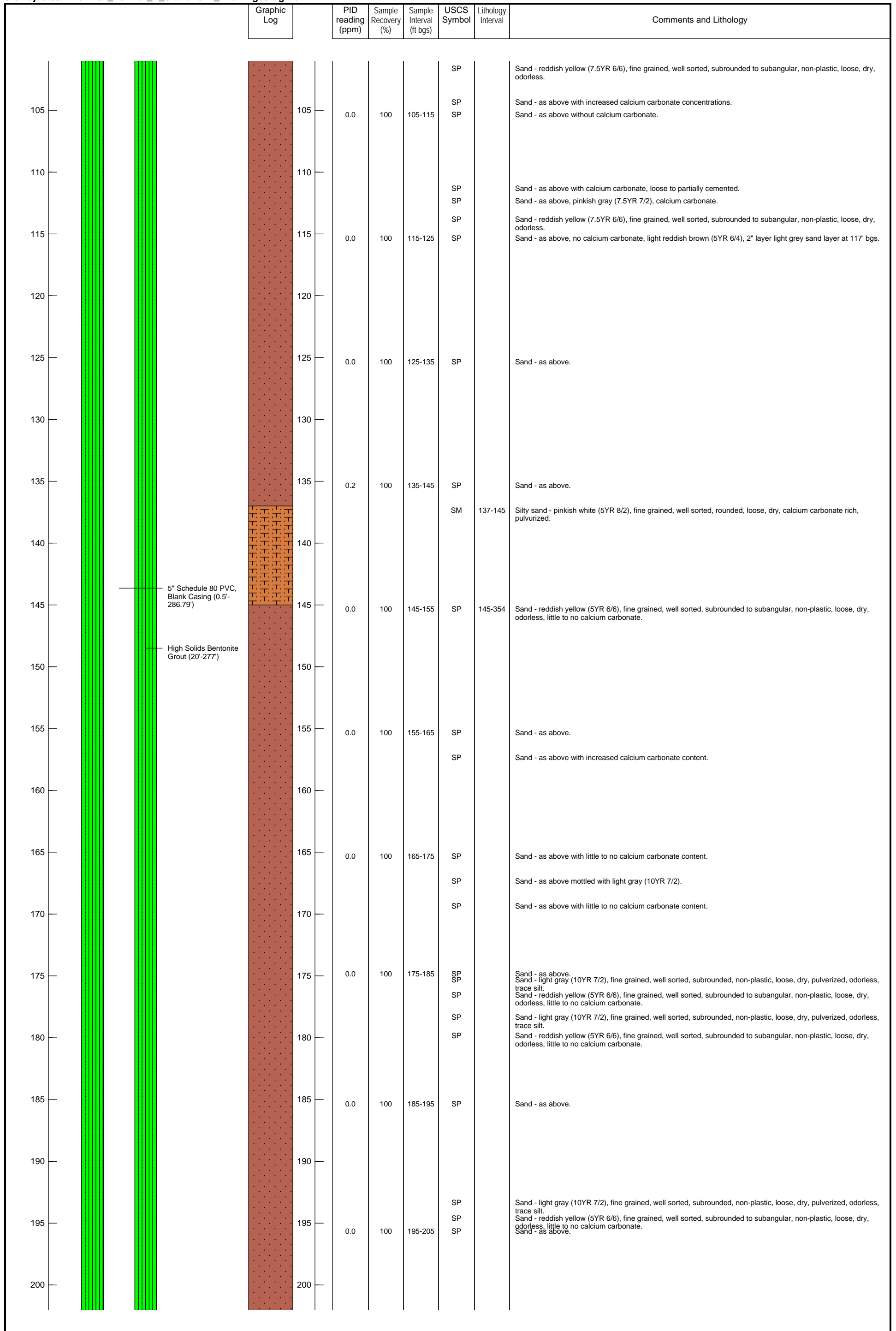
Geologist: H. Barnes
 Driller: Yellow Jacket Drilling
 Date completed: 8/4/19

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

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

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





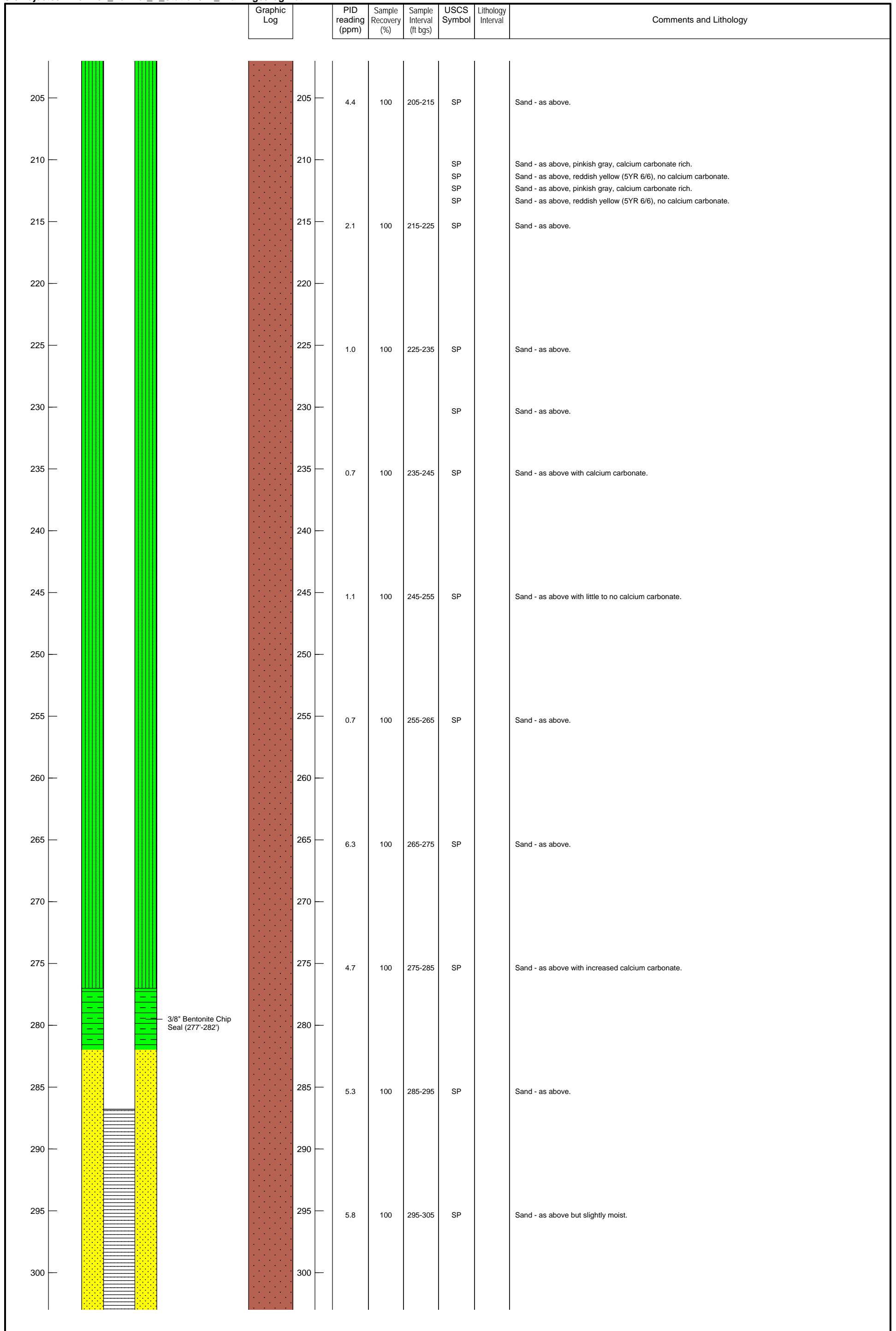
Geologist: H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 7/20/19
 Well completion date: 8/4/19

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

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

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





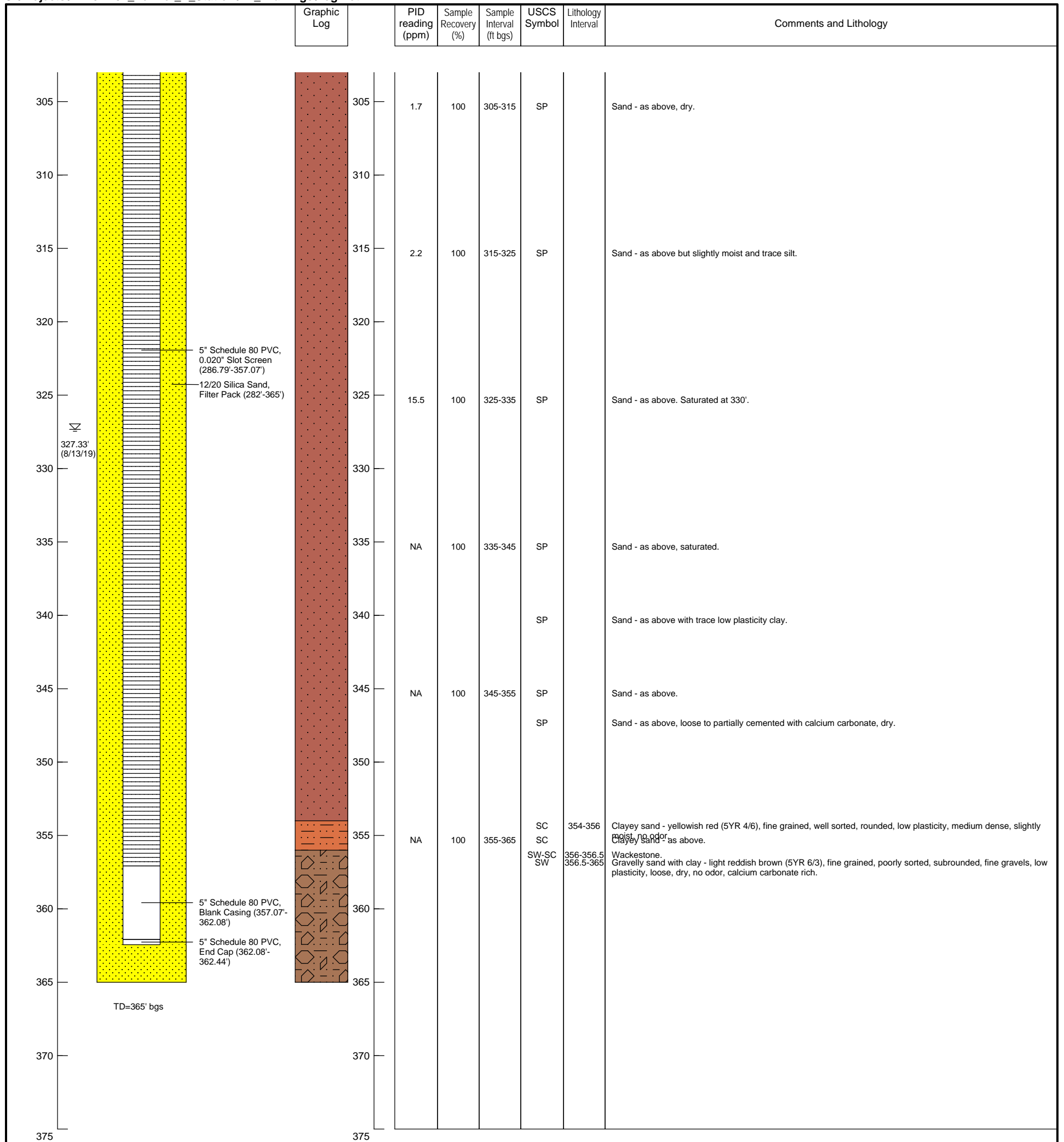
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**FORMER Y STATION
 CLOVIS, NEW MEXICO
 BW-7R**





Geologist: H. Barnes
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 New Mexico State Plane East NAD83
 Northing: 1245210.02 Elevation: 4277.44
 Easting: 884291.06

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



ALLSUPS #320

CLIENT: Allsup Petroleum, Inc.

Borehole ID: BW-8

page 1 of 5

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



USCS - LITHOLOGIC DESCRIPTION

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

Surface Conditions: 0-0.3' Saw cut concrete.

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

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

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

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

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

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

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

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

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

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

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

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

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



BROWN ENVIRONMENTAL, INC

P.O. BOX 886 PLACITAS, NM 87043

ALLSUPS #320

CLIENT: Allsup's Petroleum, Inc.

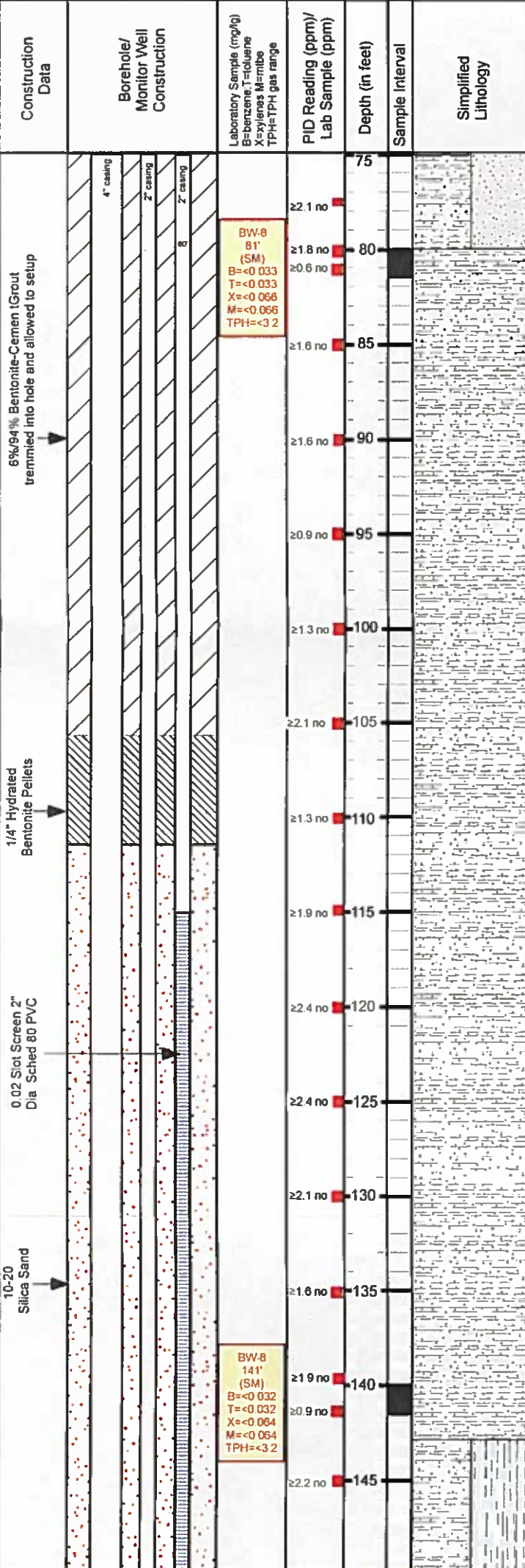
Borehole ID: BW-8

page 2 of 5

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



USCS - LITHOLOGIC DESCRIPTION



BW-8
81'
(SM)
B=<0.033
T=<0.033
X=<0.066
M=<0.066
TPH=<3.2

BW-8
141'
(SM)
B=<0.032
T=<0.032
X=<0.064
M=<0.064
TPH=<3.2

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.>



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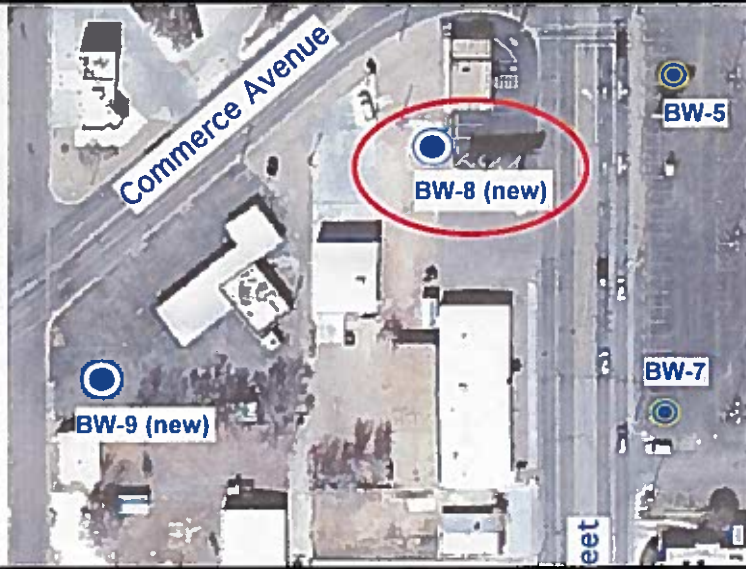
ALLSUPS #320

CLIENT: Allsup's Petroleum, Inc.

Borehole ID: BW-8

page 3 of 5

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



USCS - LITHOLOGIC DESCRIPTION

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

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

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

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

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

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

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



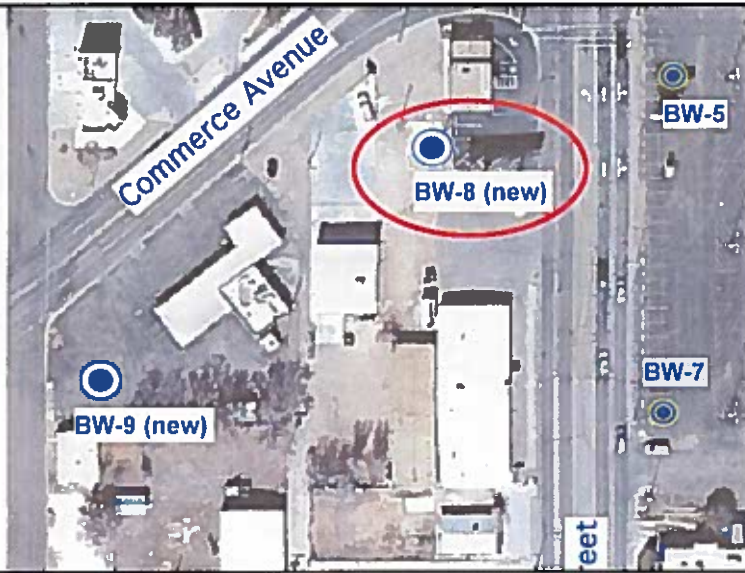
BROWN ENVIRONMENTAL, INC

P.O. BOX 886 PLACITAS, NM 87043

ALLSUPS #320

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

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



USCS - LITHOLOGIC DESCRIPTION

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

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

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

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

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

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

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

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

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



BROWN ENVIRONMENTAL, INC

P.O. BOX 886 PLACITAS, NM 87043

ALLSUPS #320

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

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



USCS - LITHOLOGIC DESCRIPTION

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

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

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

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

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

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

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

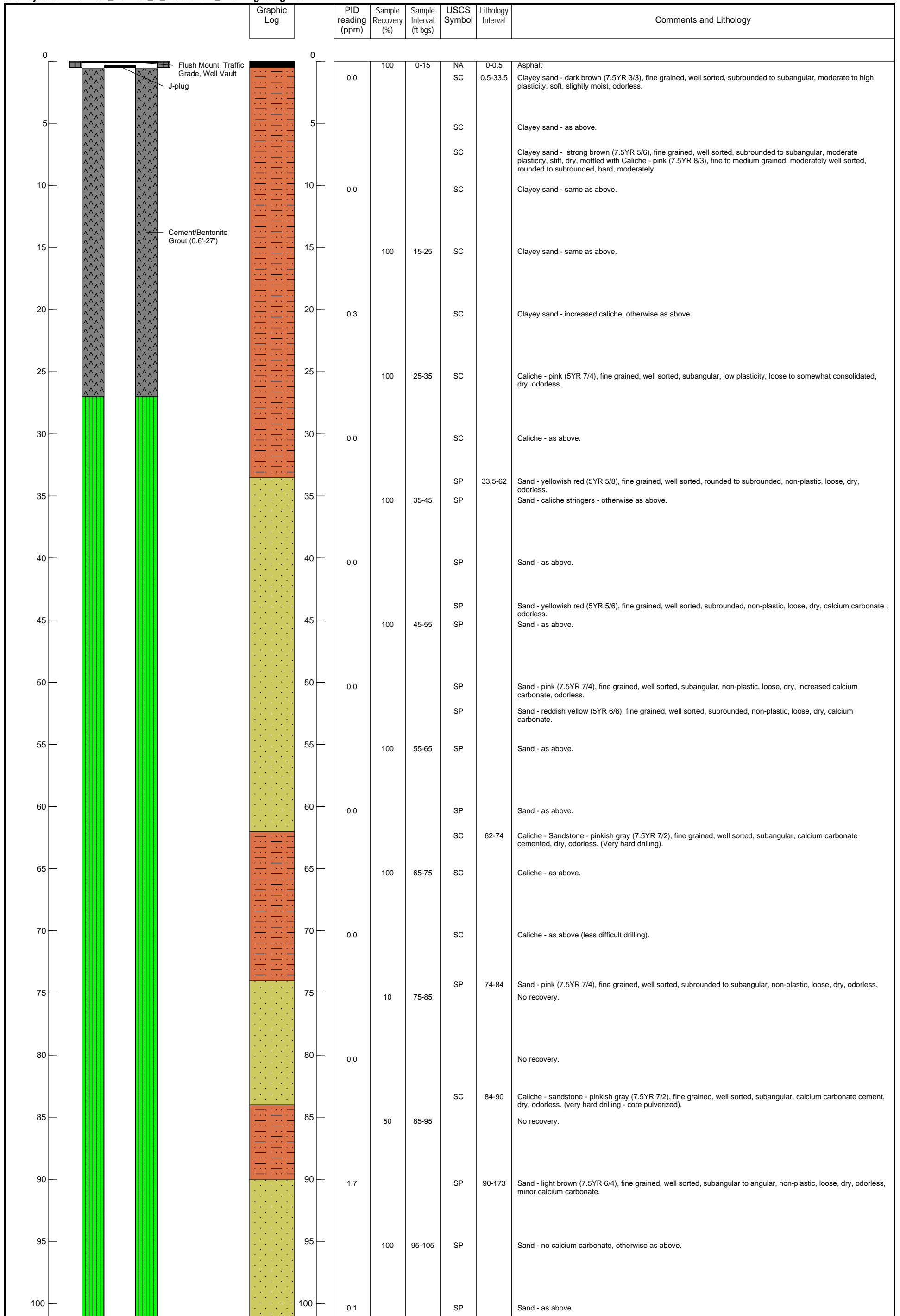
343'-346' Cuttings Very hard zone, very fine to fine grained sandstone (SAS) light tan-brown (7.5YR) calcium carbonate cemented.

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



BROWN ENVIRONMENTAL, INC

P.O. BOX 886 PLACITAS, NM 87043



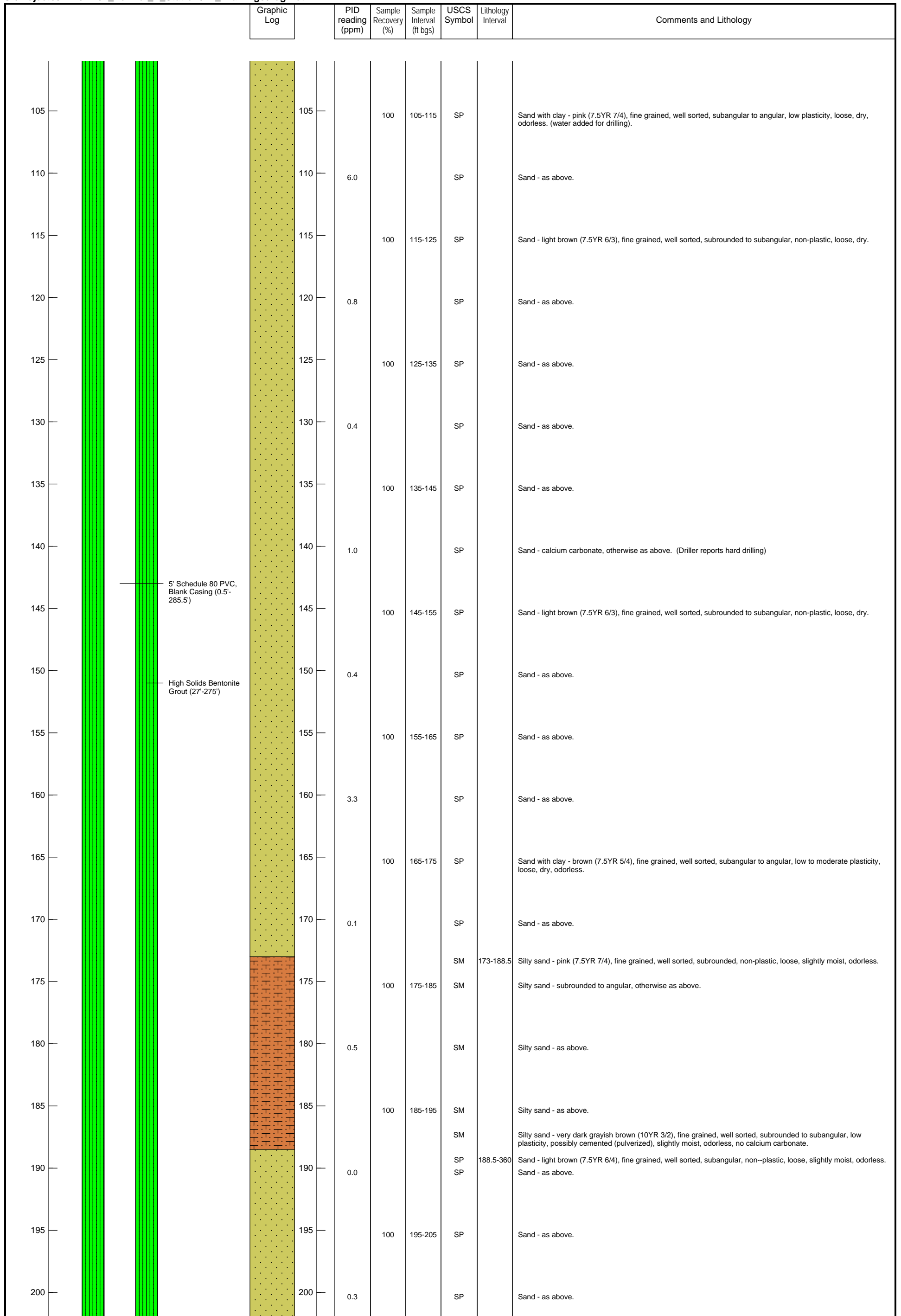
Geologist: P. Feltman and J. Fisher
 Driller: Yellow Jacket Drilling
 Drilling start date: 5/29/19
 Well completion date: 6/8/19

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

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

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





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)
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 Northing: 1244812.45 Elevation: 4274.64
 Easting: 884412.98

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



Graphic Log		PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	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 SP		Sand - as above. Sand with clay - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, low plasticity, loose, lightly moist, odorless.
	225		100	225-235	SP		Sand - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, loose, slightly moist, odorless. 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 SP		Sand - with CaCO3 concretions as above. Sand - with CaCO3 concretions - pinkish gray (5YR 7/2), fine grained, well sorted, rounded, dry, odorless.
	245		100	245-255	SP SP		Sand with CaCO3 concretions - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, slightly moist, odorless. Sand with clay - pinkish white (5YR 8/2), fine grained, well sorted, rounded, low plasticity, CaCO3 (caliche), dry, odorless.
	250	0.1			SP SP		Sand with CaCO3 concretions - light brown (7.5YR 6/4), fine grained, well sorted, subrounded to subangular, non-plastic, slightly moist, odorless. 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, slightly moist, odorless.
	265		100	265-275	SP SP		Sand with CaCO3 concretions - otherwise as above. 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.	

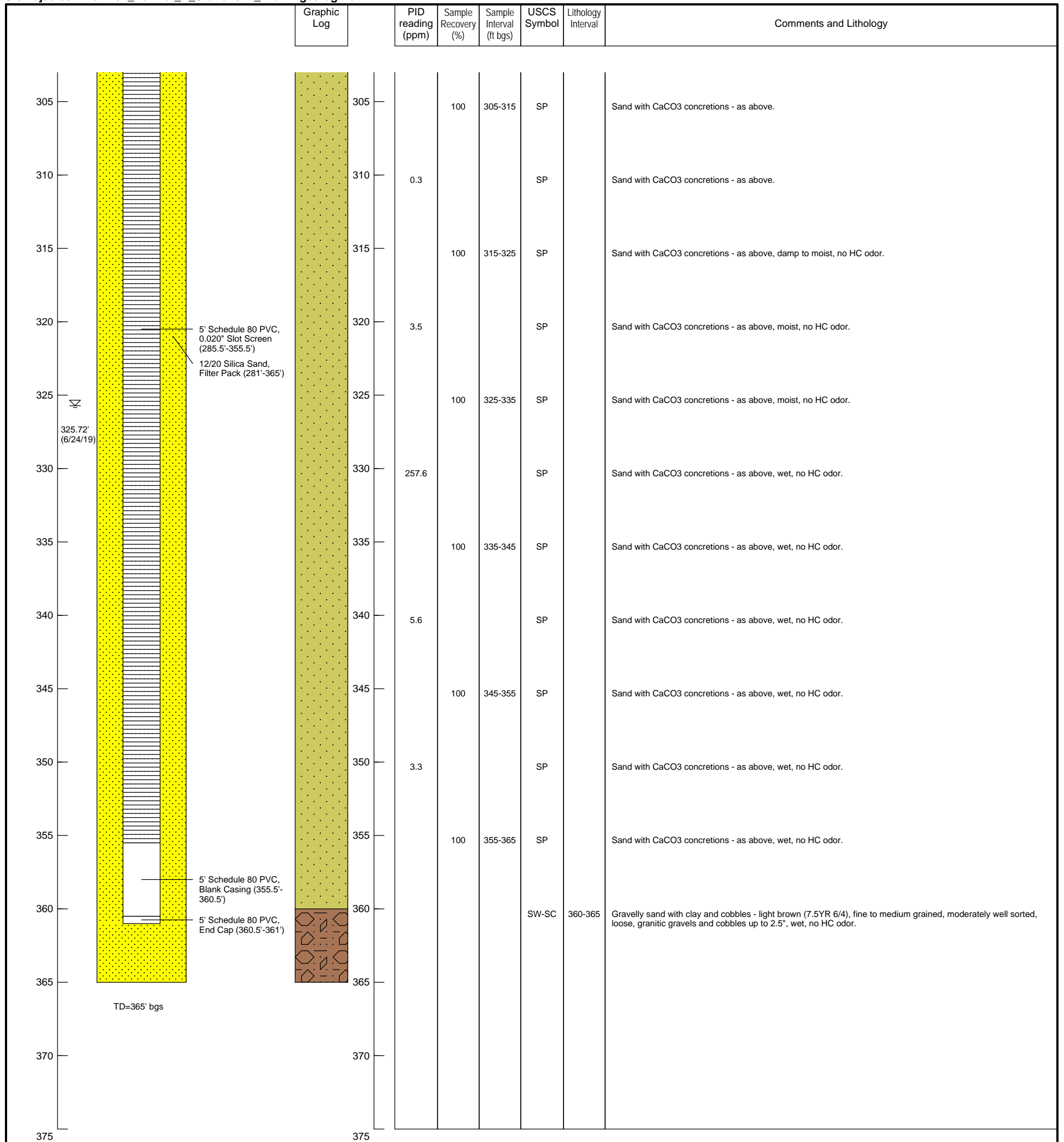
Geologist: P. Feltman and J. Fisher
 Driller: Yellow Jacket Drilling
 Drilling start date: 5/29/19
 Well completion date: 6/8/19

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

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





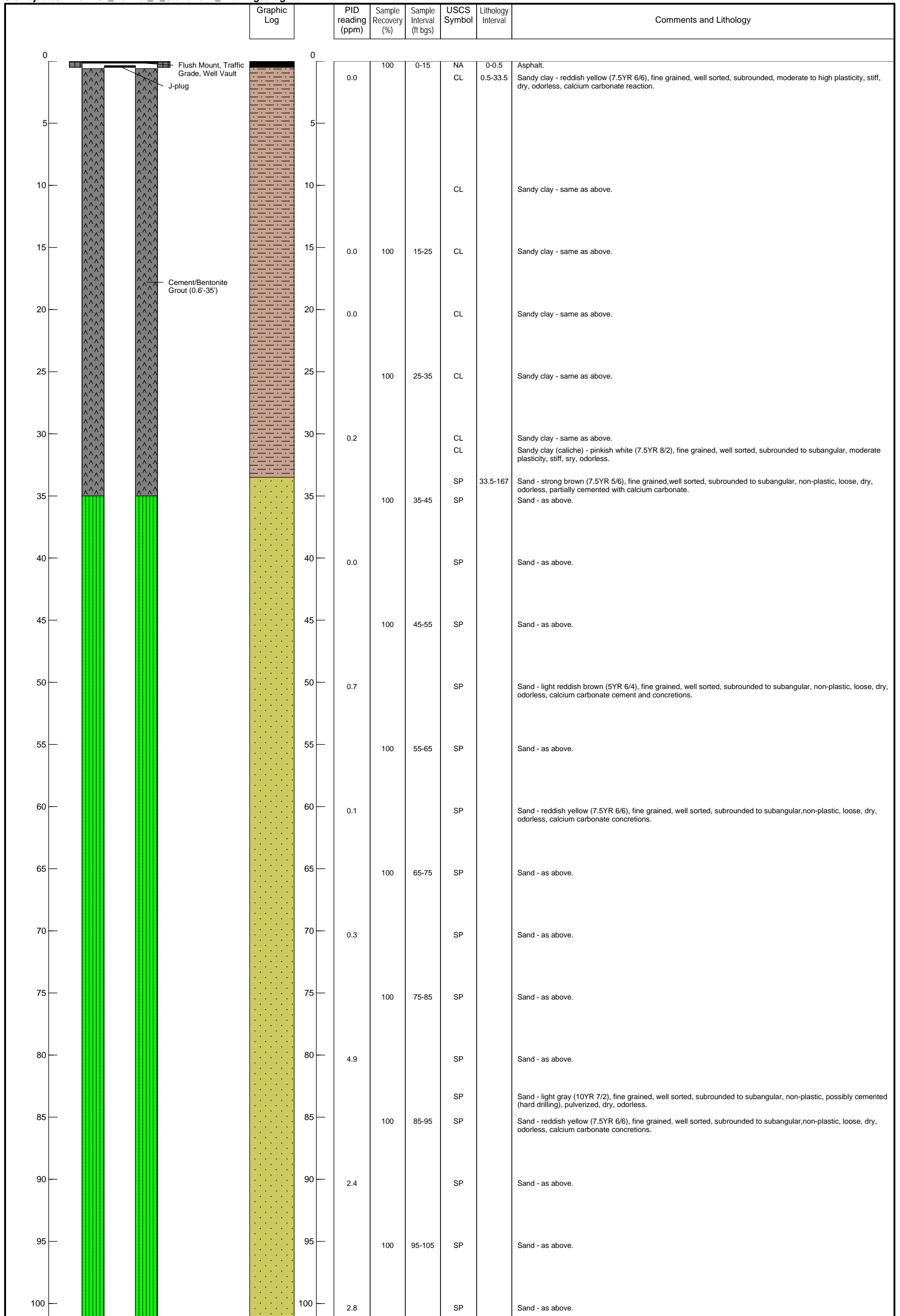
Geologist: P. Feltman and J. Fisher
 Driller: Yellow Jacket Drilling
 Drilling start date: 5/29/19
 Well completion date: 6/8/19

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

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 New Mexico State Plane East NAD83
 Northing: 1244812.45 Elevation: 4274.64
 Easting: 884412.98

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





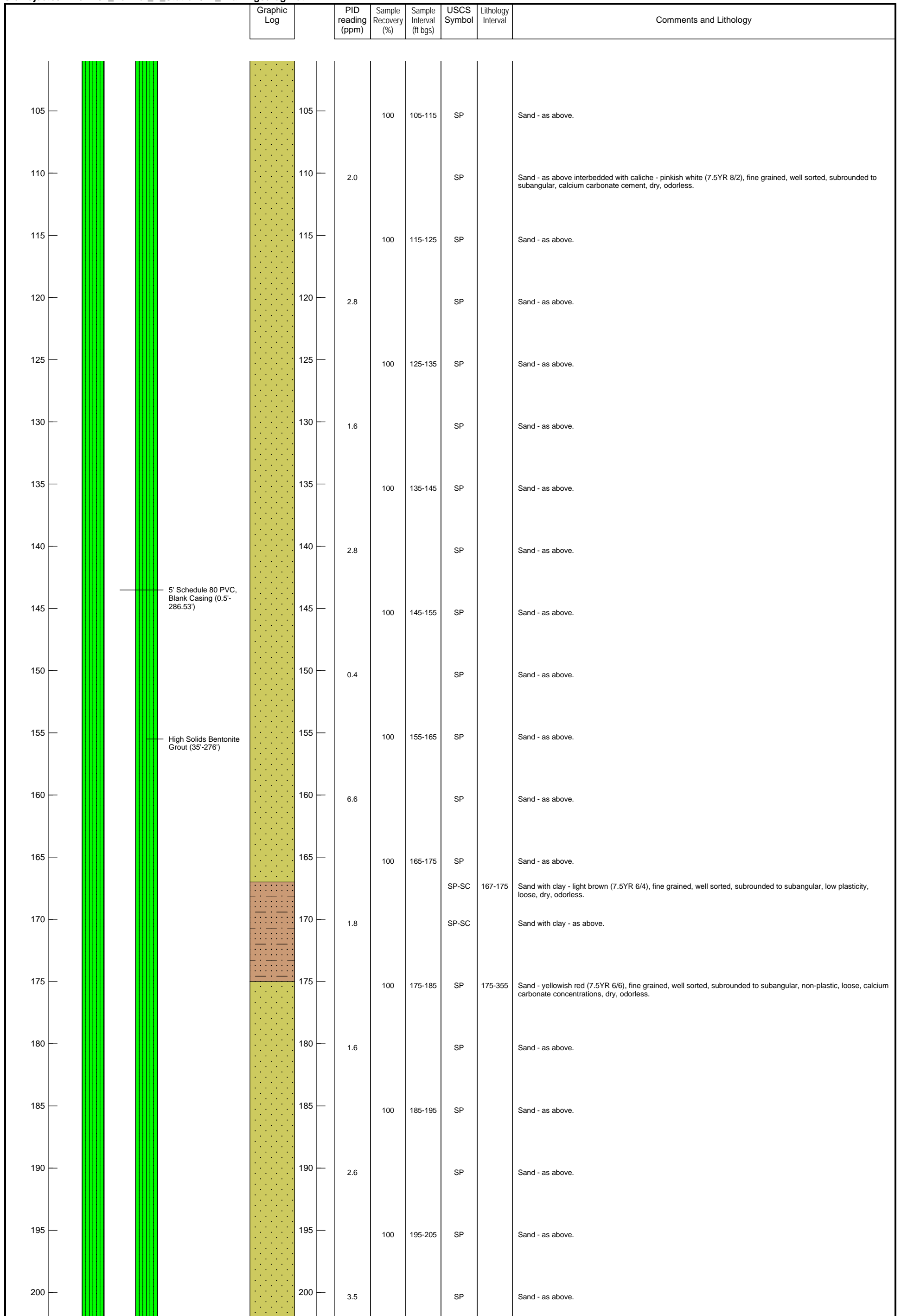
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 7/9/19 Well completion date: 7/20/19

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

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

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





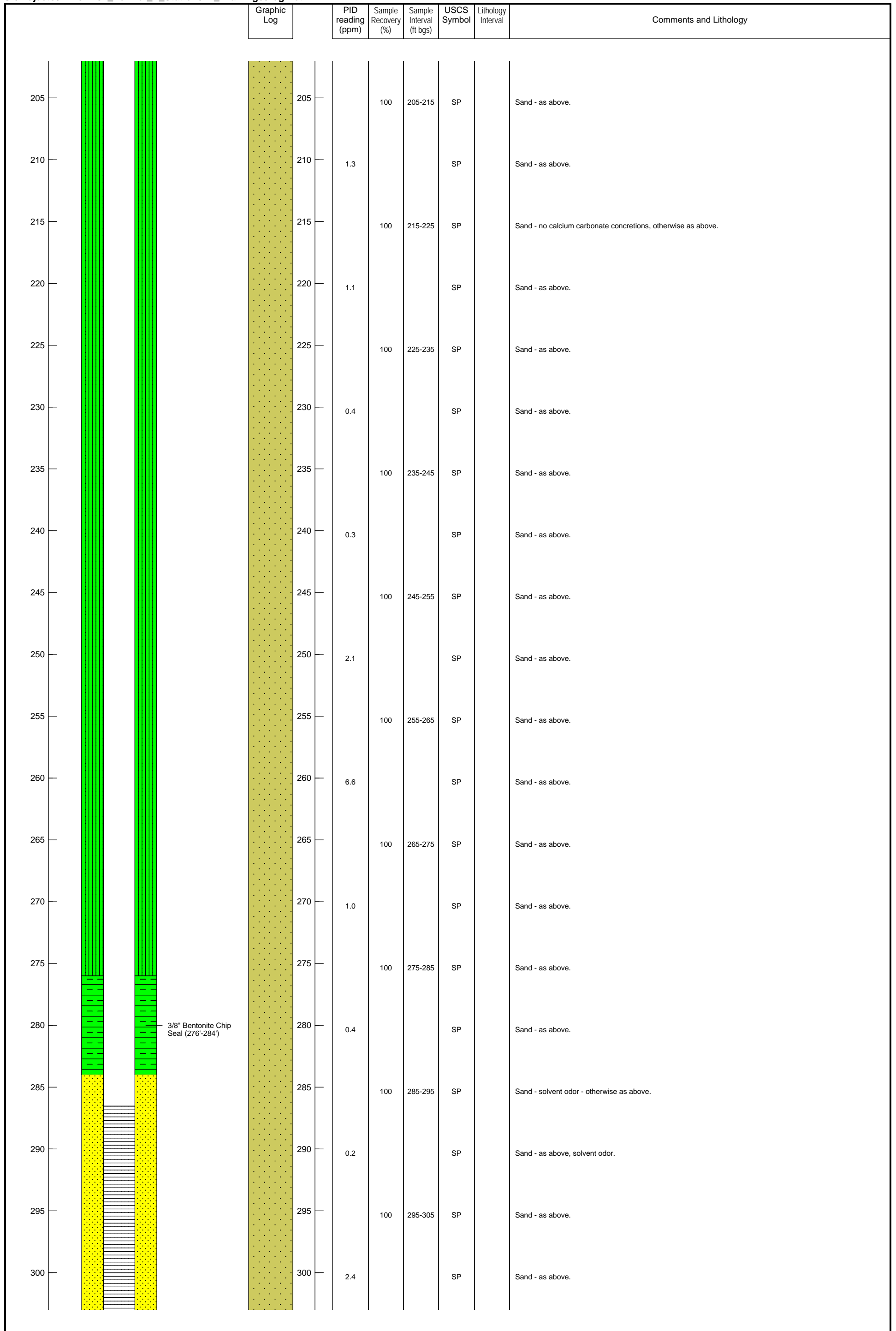
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 7/9/19 Well completion date: 7/20/19

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

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

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





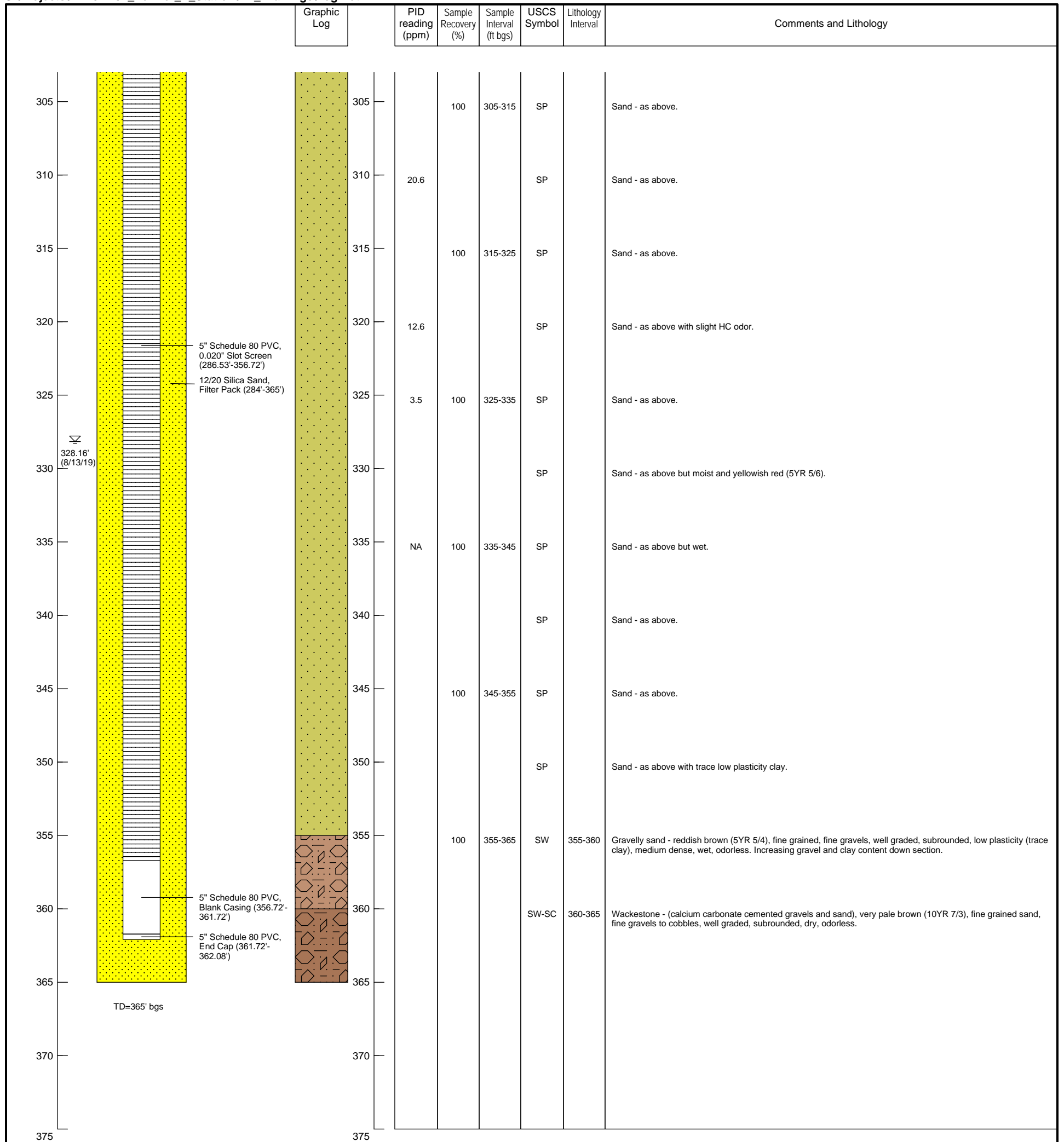
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 7/9/19 Well completion date: 7/20/19

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

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

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





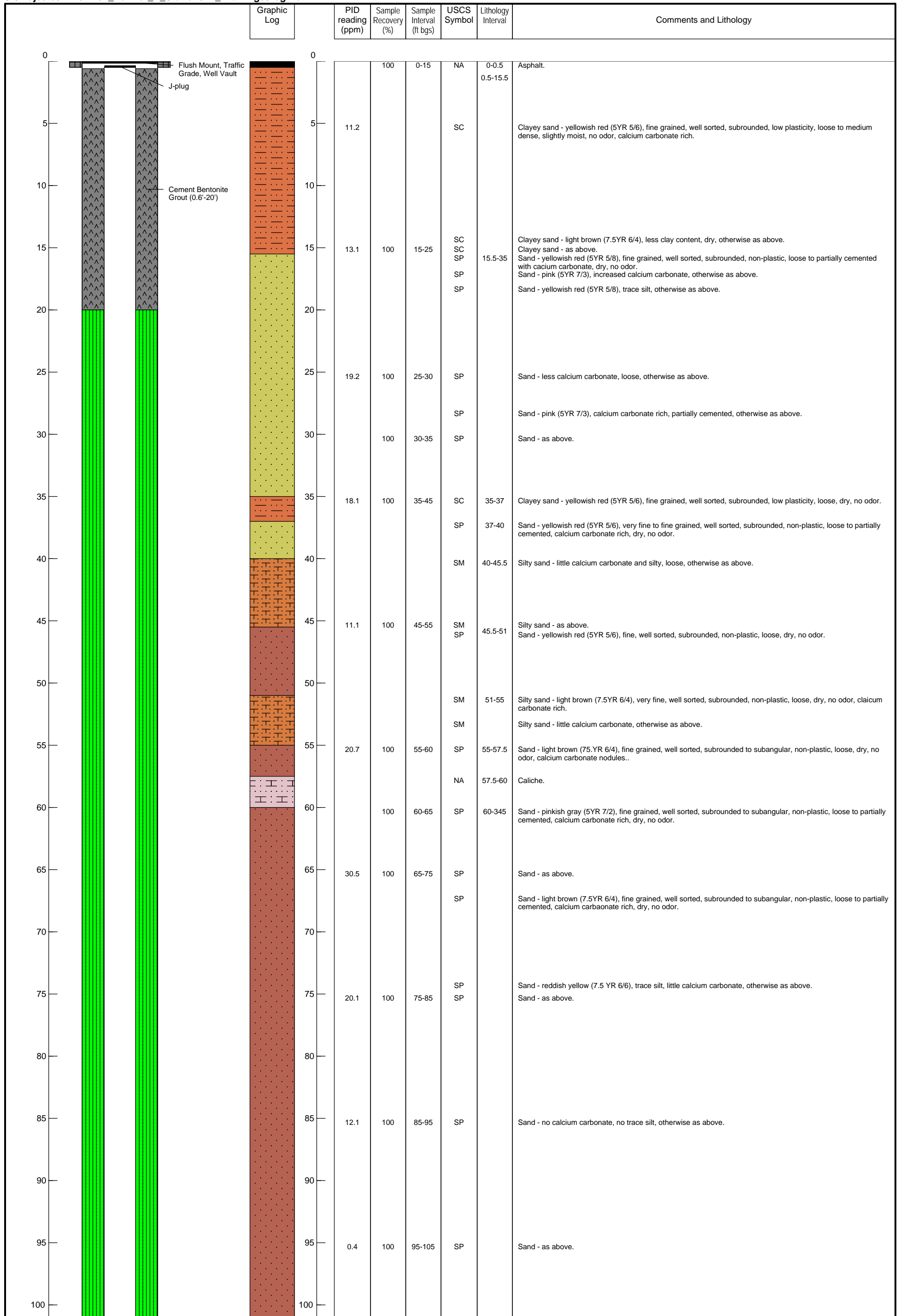
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 7/9/19 Well completion date: 7/20/19

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

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

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





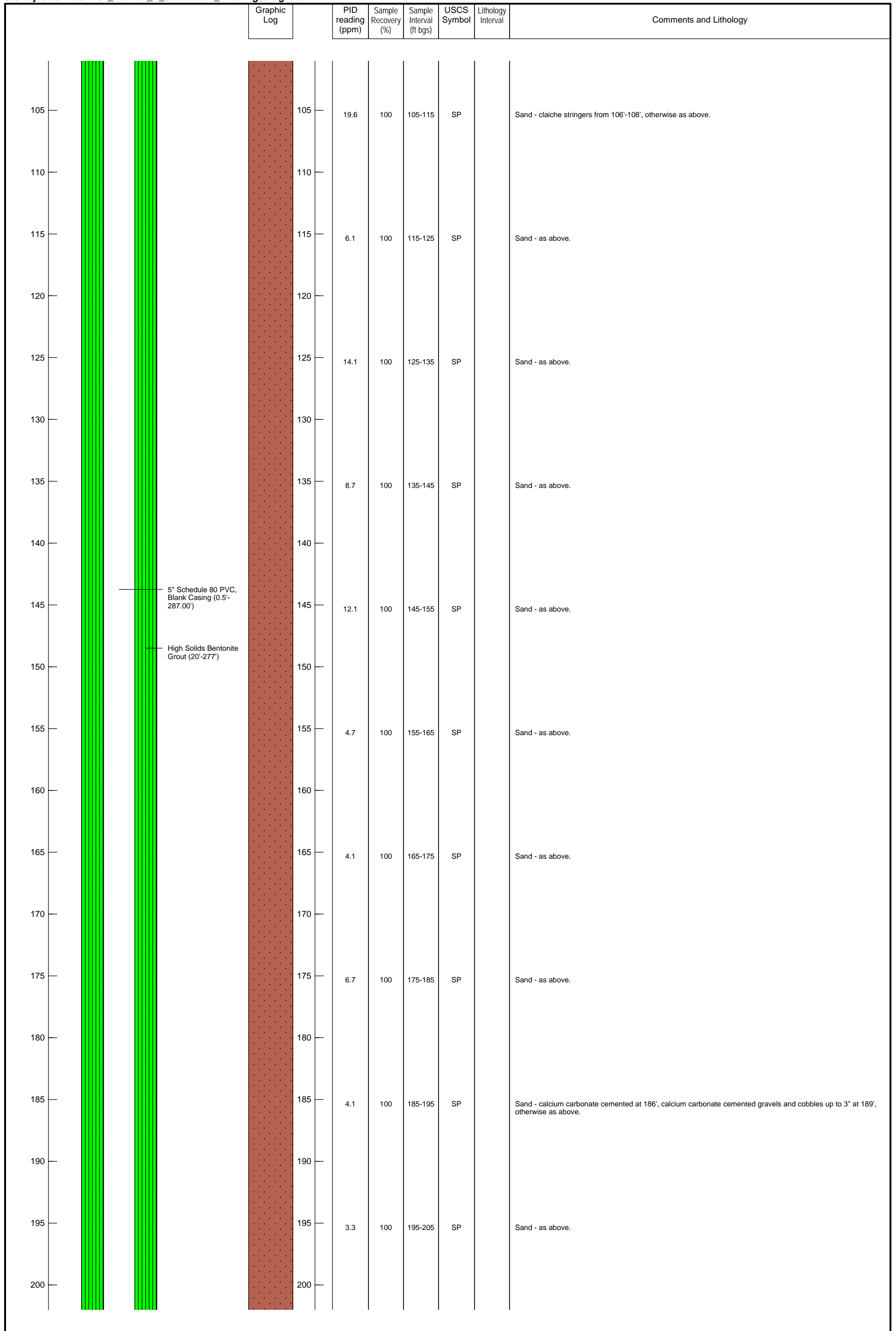
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 8/4/19
 Well completion date: 8/13/19

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

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

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





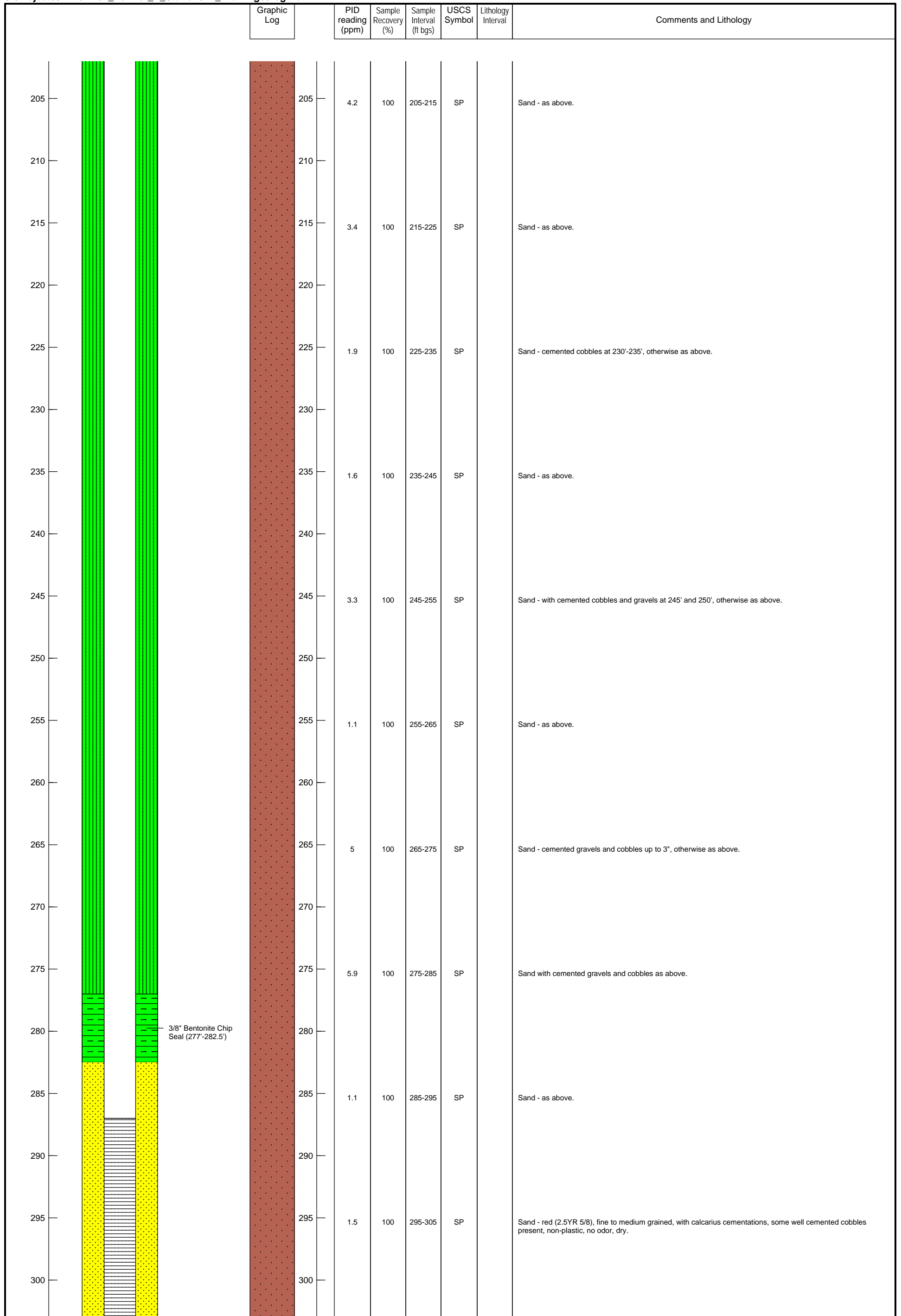
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 8/4/19
 Well completion date: 8/13/19

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

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

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





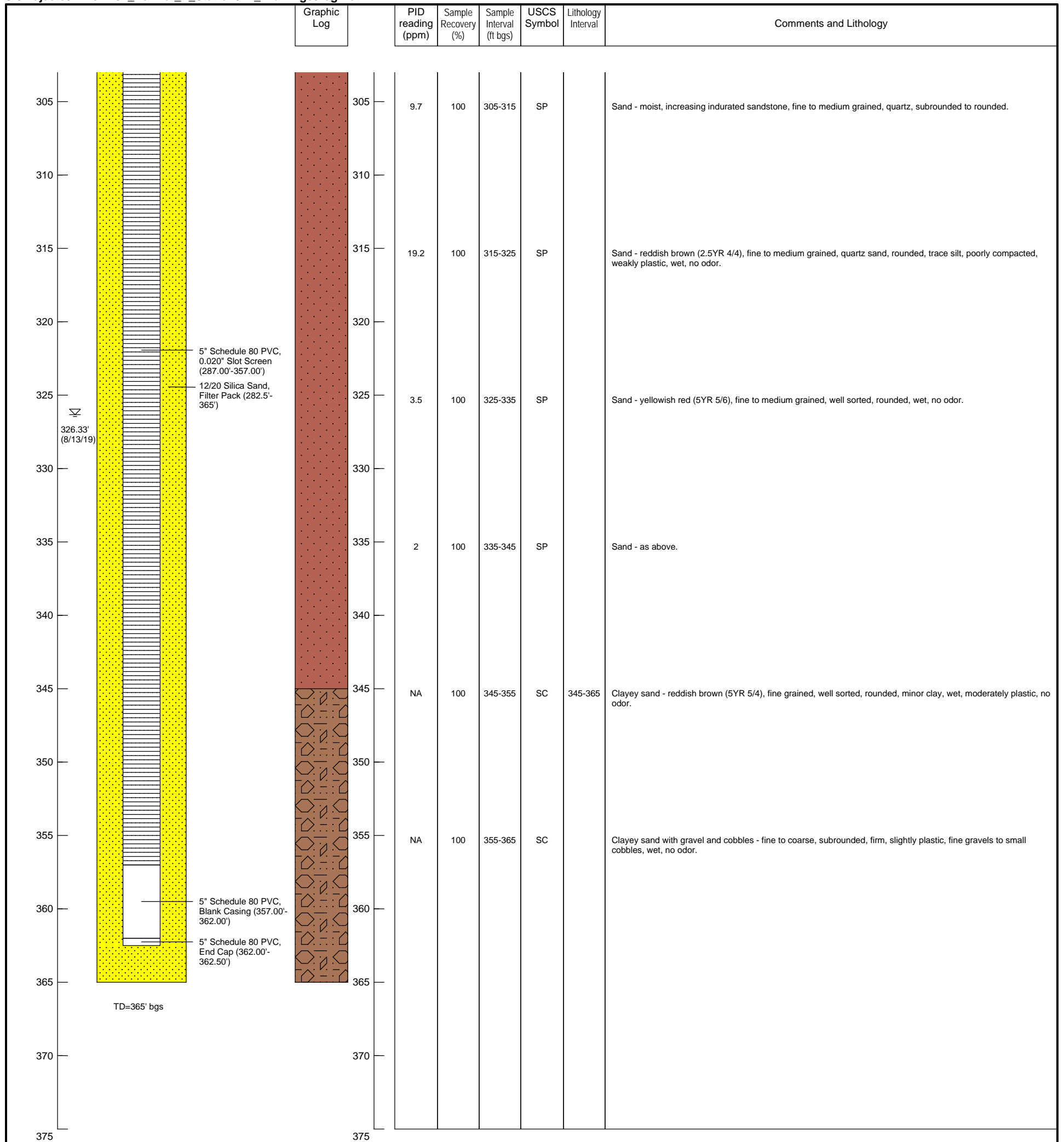
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 8/4/19
 Well completion date: 8/13/19

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

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

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





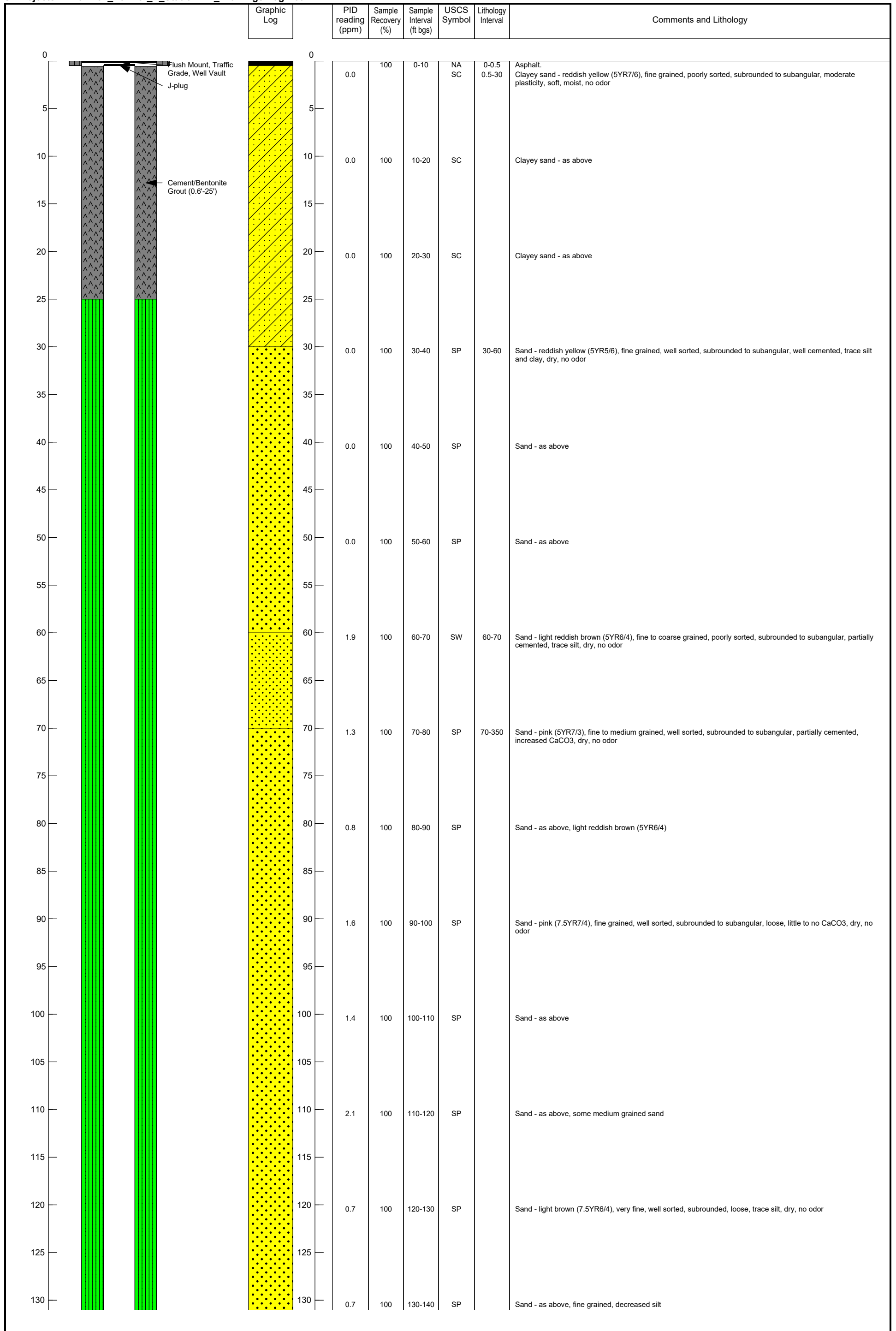
Geologist: P. Feltman and J. Fisher
 Driller: Yellow Jacket Drilling
 Drilling start date: 8/4/19
 Well completion date: 8/13/19

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

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

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





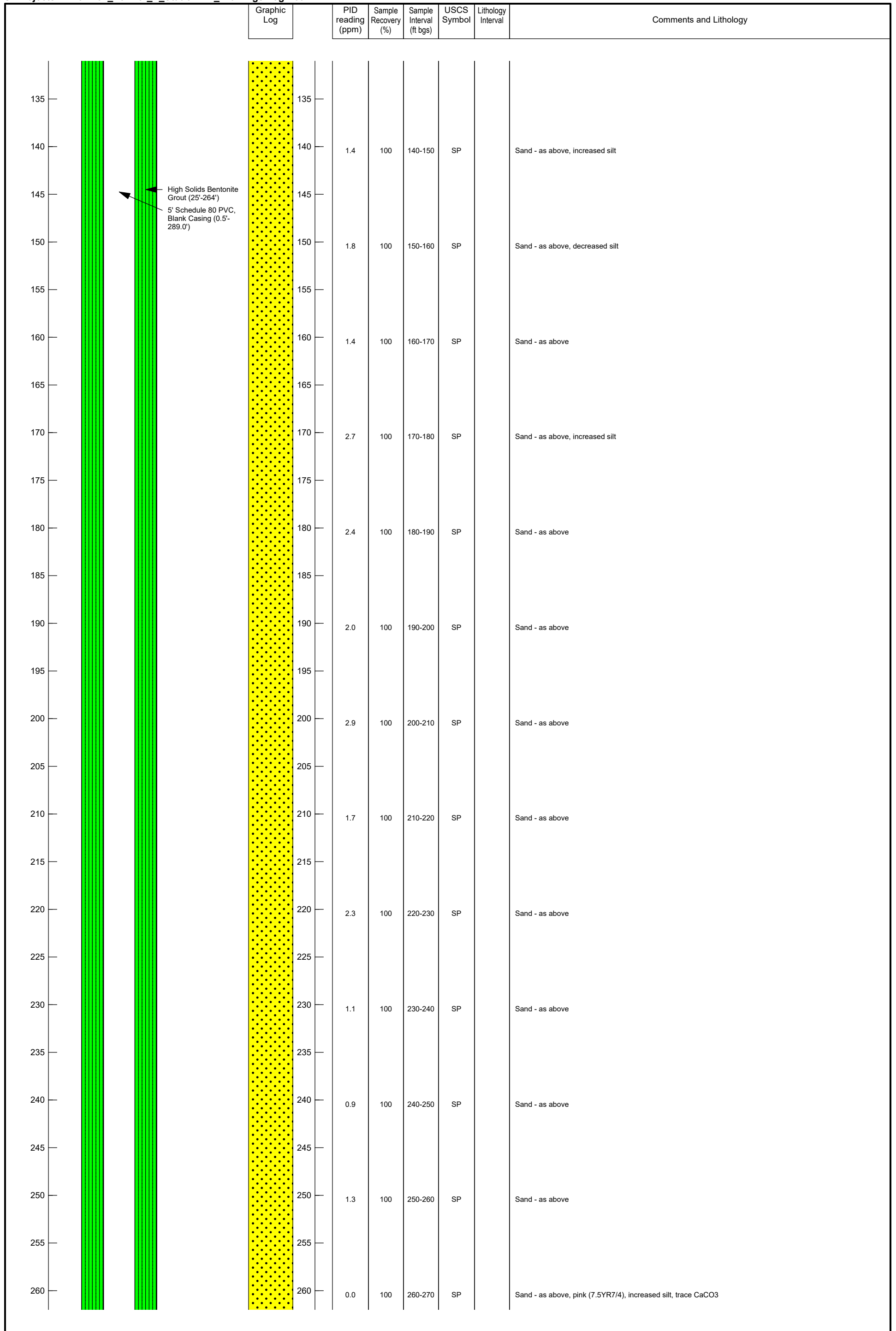
Geologist: J. Fisher and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 5/29/2020
 Well completion date: 5/29/2020

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

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

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





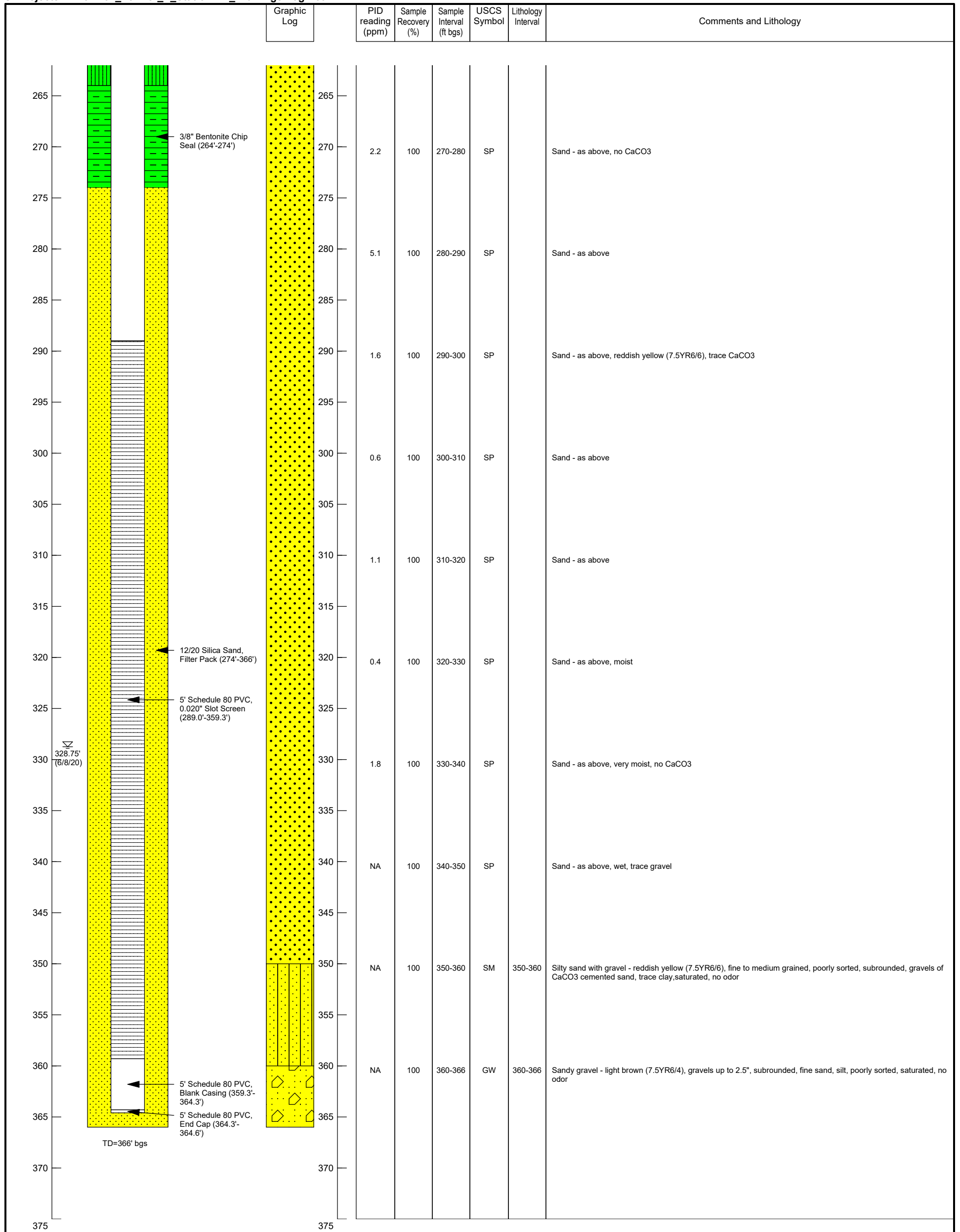
Geologist: J. Fisher and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 5/29/2020
 Well completion date: 5/29/2020

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

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

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





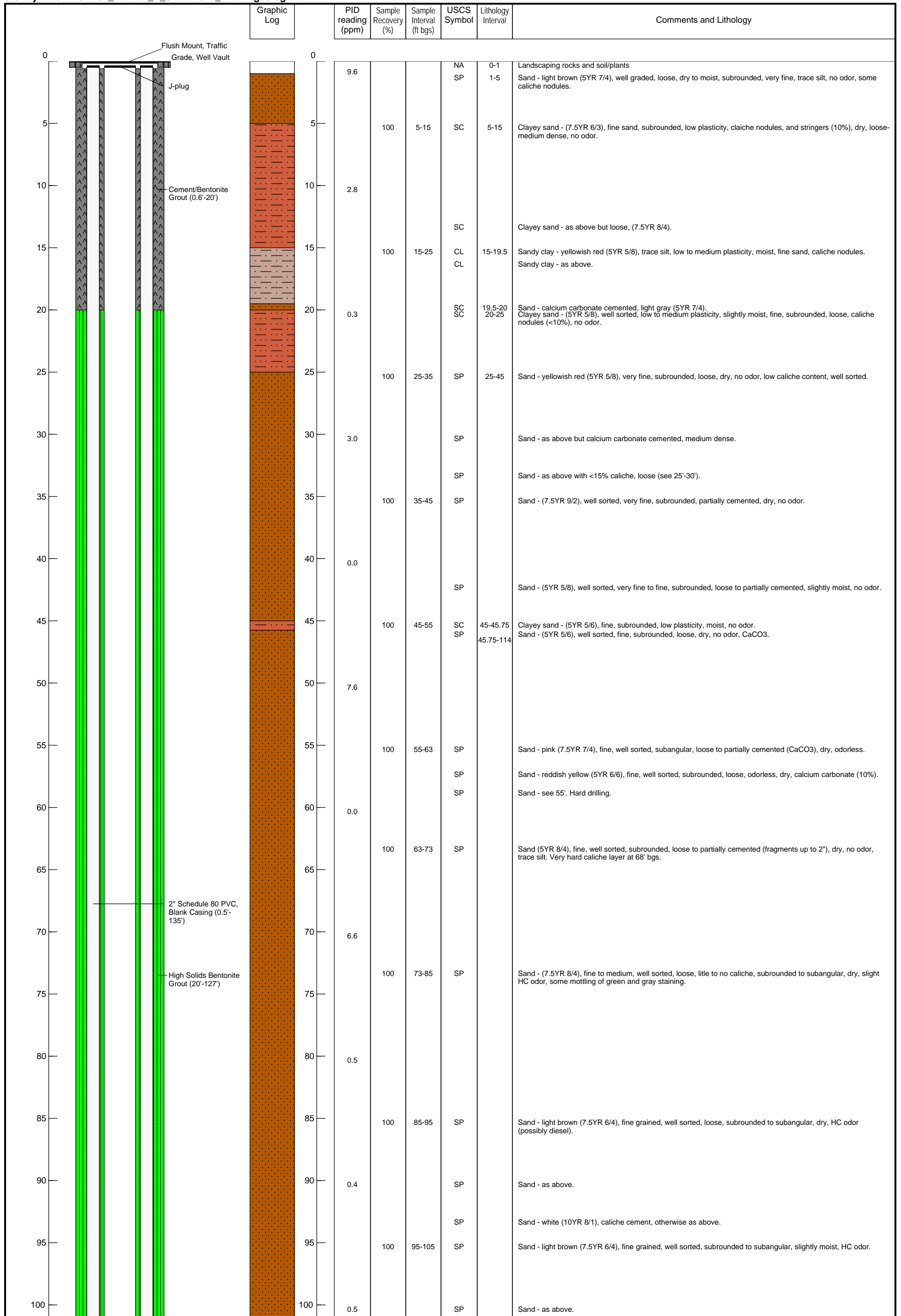
Geologist: J. Fisher and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 5/29/2020
 Well completion date: 5/29/2020

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

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

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





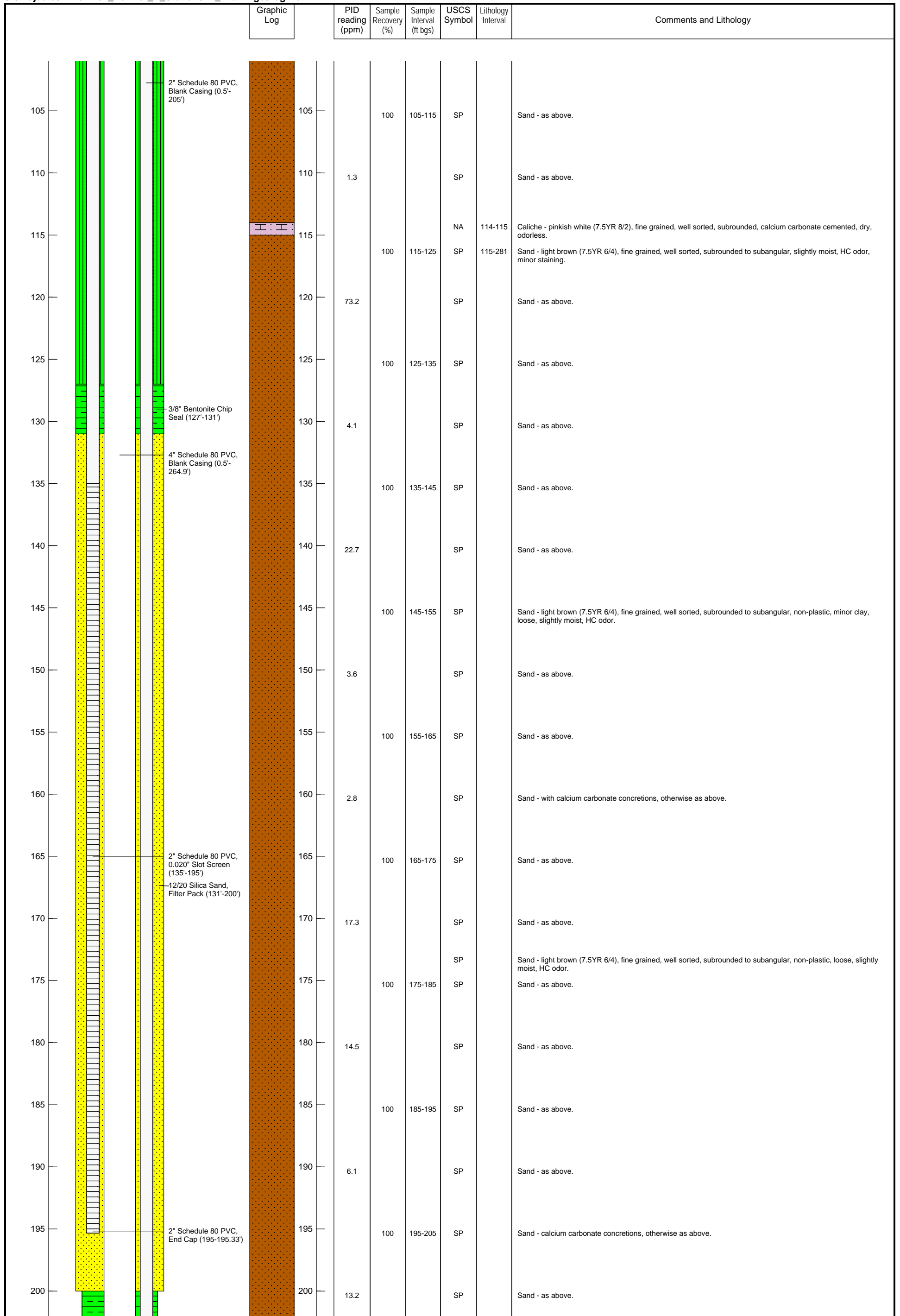
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 6/20/19
 Well completion date: 6/29/19

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

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

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





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

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

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

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



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

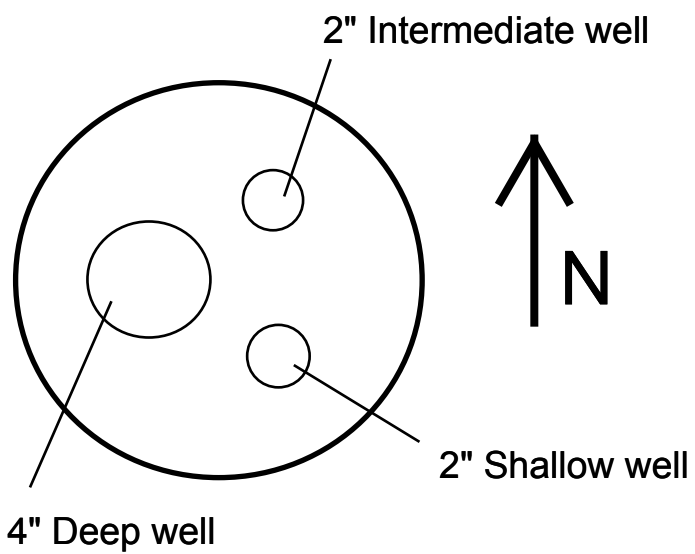
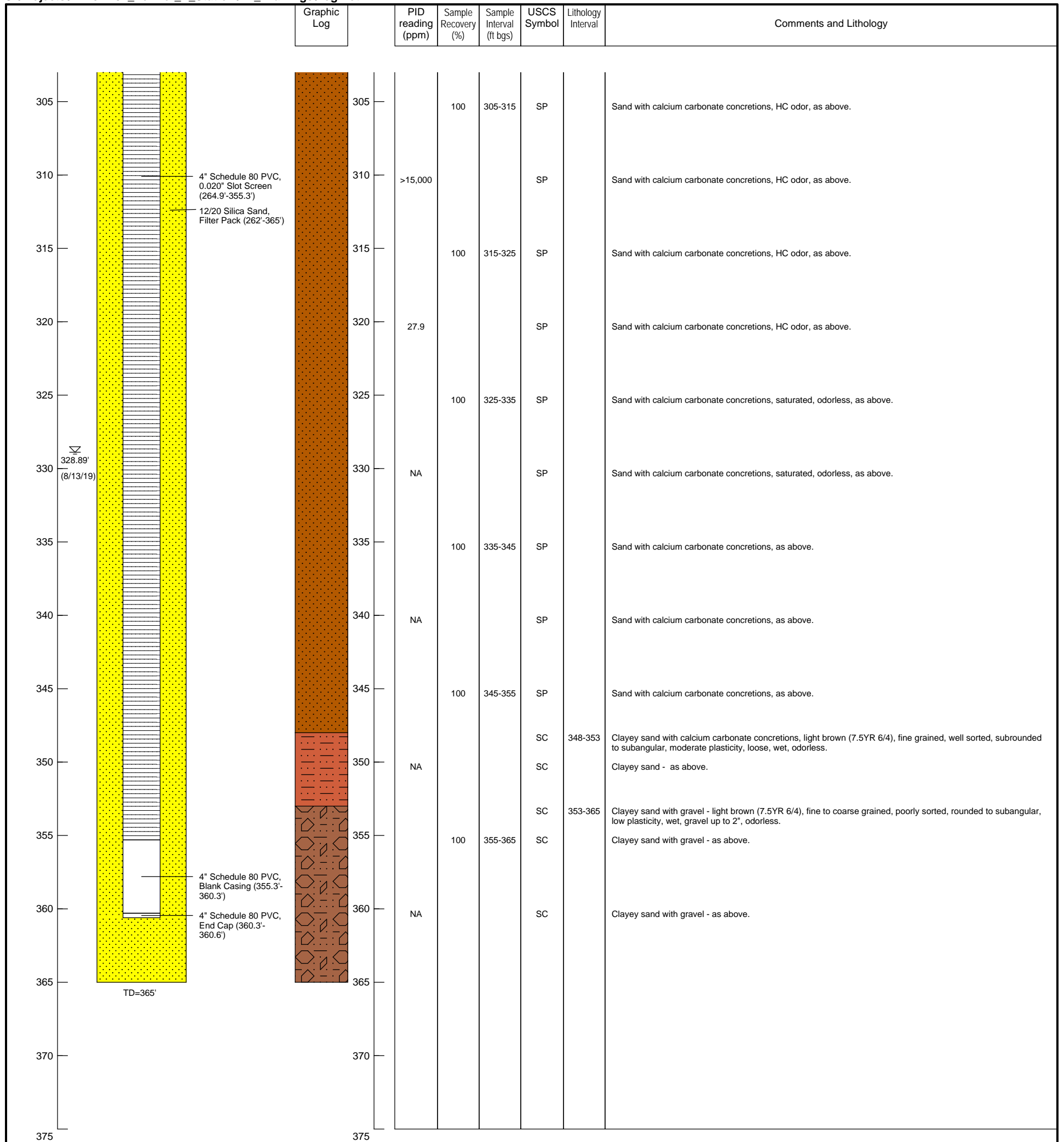
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 6/20/19
 Well completion date: 6/29/19

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

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

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





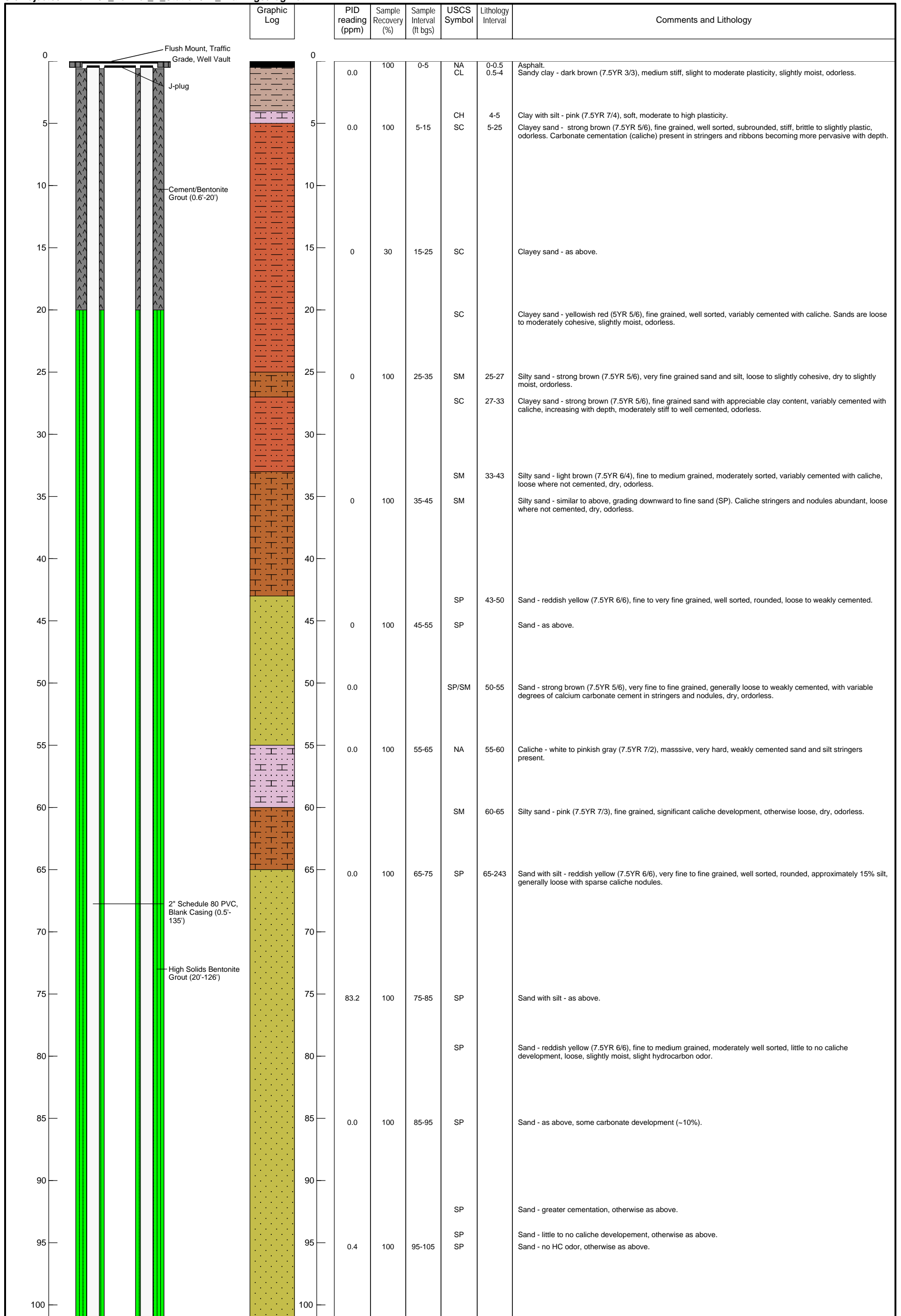
Geologist: P. Feltman and H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 6/20/19
 Well completion date: 6/29/19

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

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

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





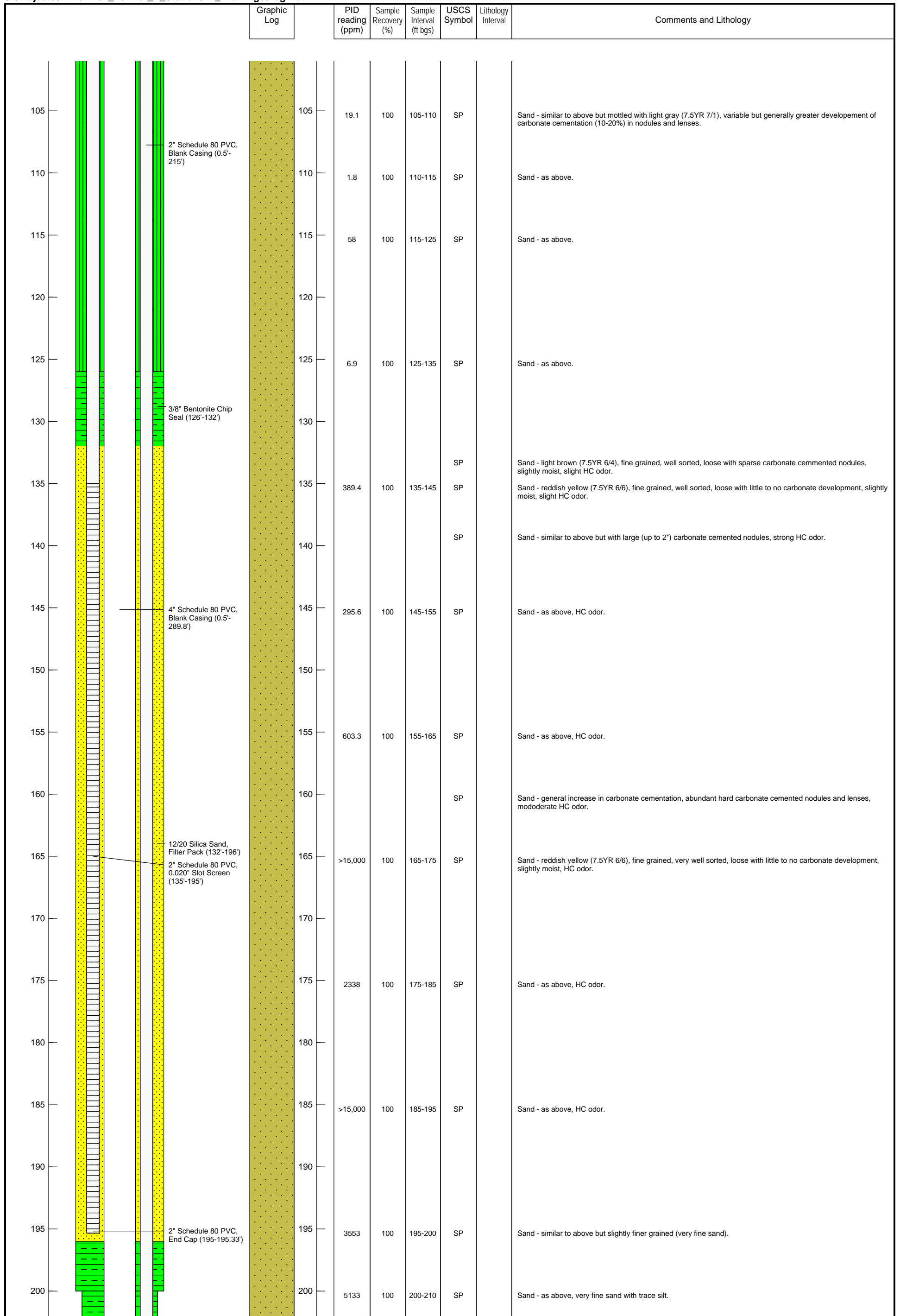
Geologist: H. Barnes and J. Raucci
 Driller: Yellow Jacket Drilling
 Drilling start date: 6/15/19
 Well completion date: 6/19/19

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

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

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





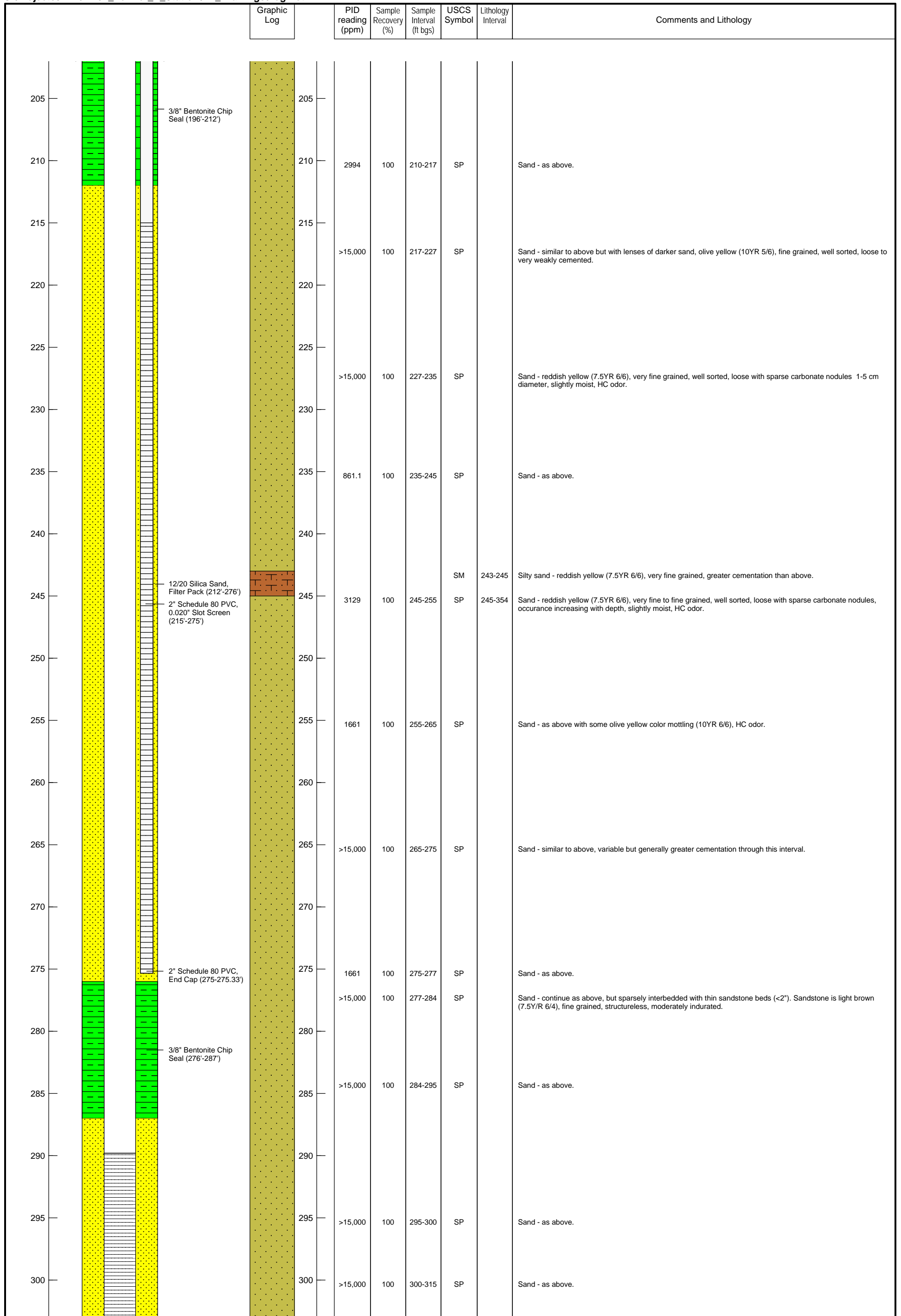
Geologist: H. Barnes and J. Raucci
 Driller: Yellow Jacket Drilling
 Drilling start date: 6/15/19
 Well completion date: 6/19/19

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

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

FORMER Y STATION
 CLOVIS, NEW MEXICO
RW-2





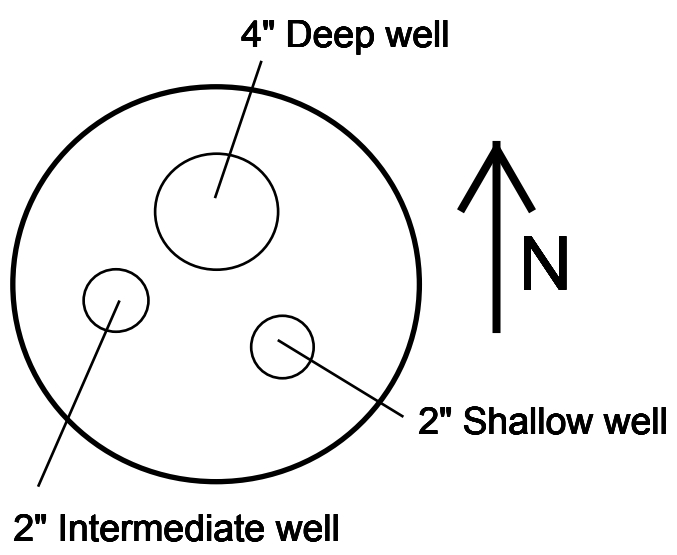
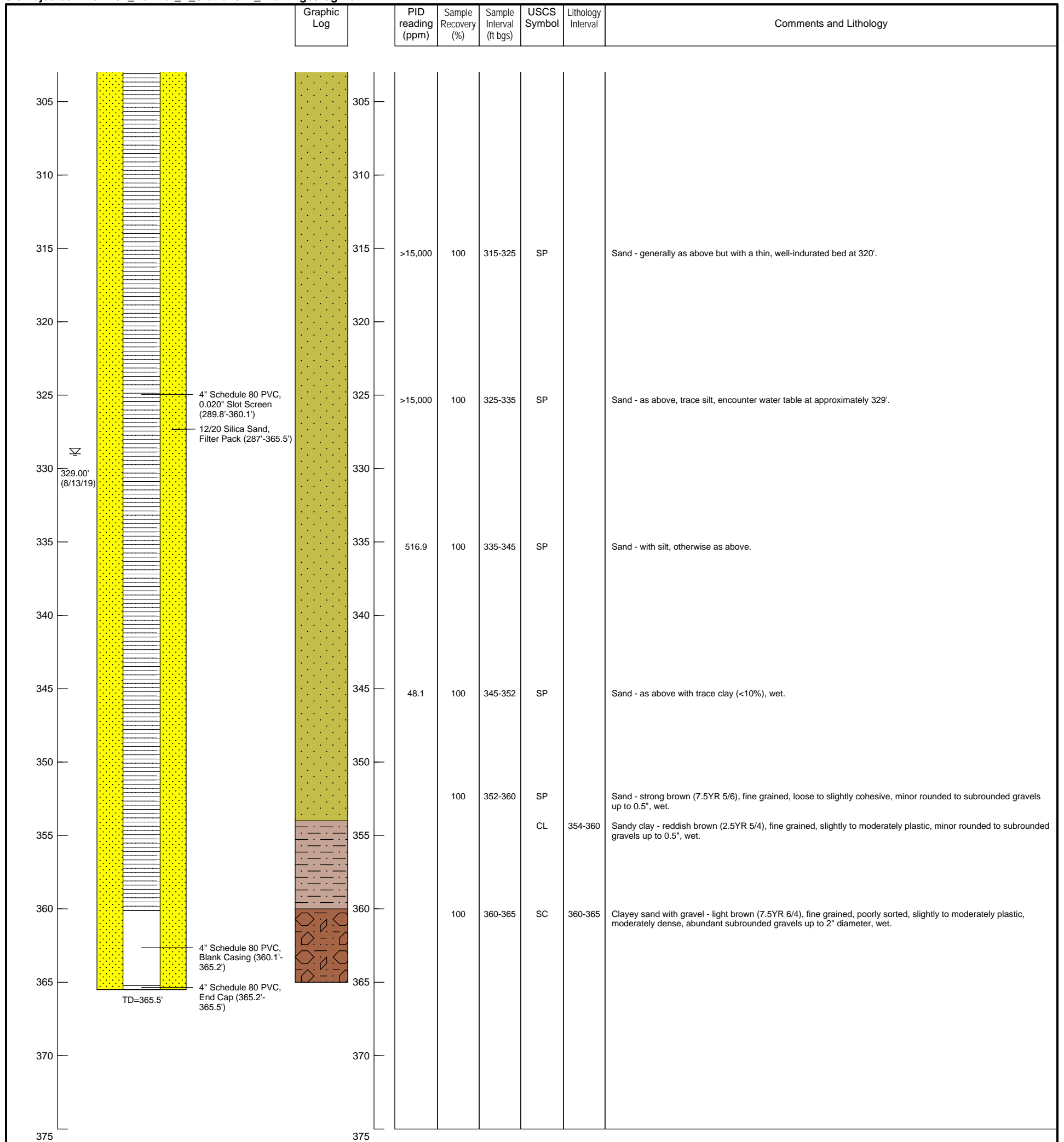
Geologist: H. Barnes and J. Raucci
 Driller: Yellow Jacket Drilling
 Drilling start date: 6/15/19
 Well completion date: 6/19/19

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

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

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





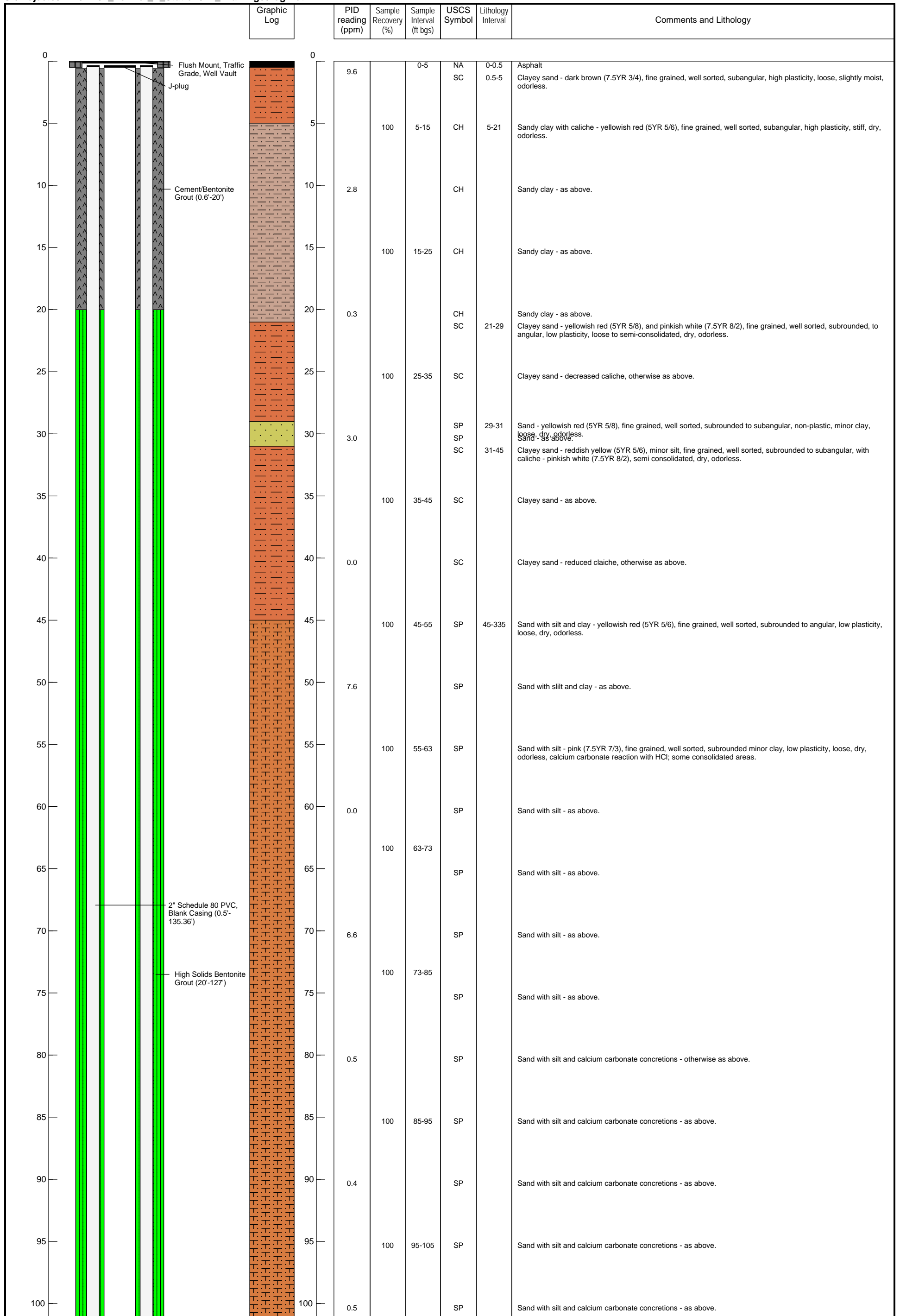
Geologist: H. Barnes and J. Raucci
 Driller: Yellow Jacket Drilling
 Drilling start date: 6/15/19
 Well completion date: 6/19/19

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

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

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





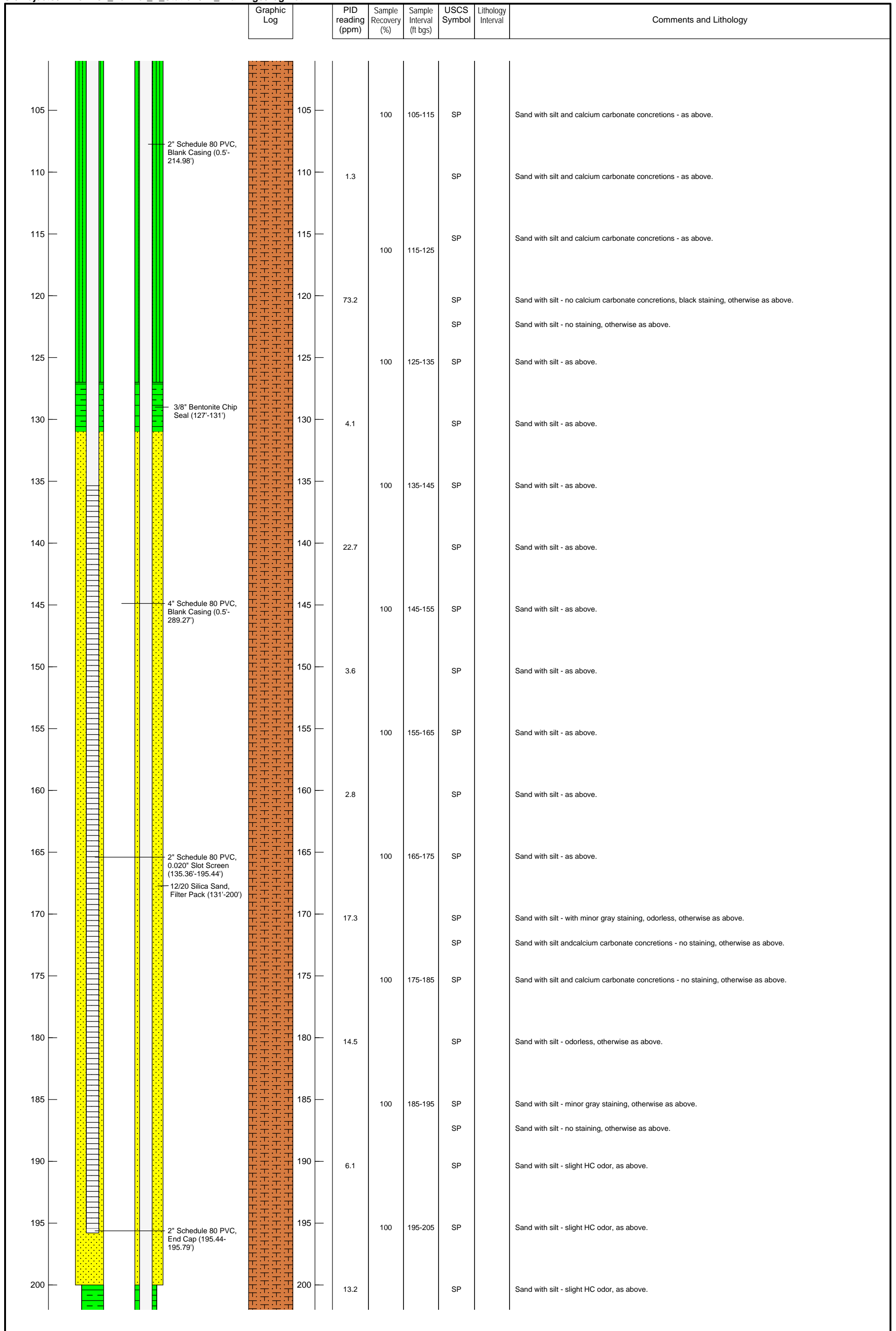
Geologist: P. Feltman
 Driller: Yellow Jacket Drilling
 Drilling start date: 8/19/19
 Well completion date: 8/30/19

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

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

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





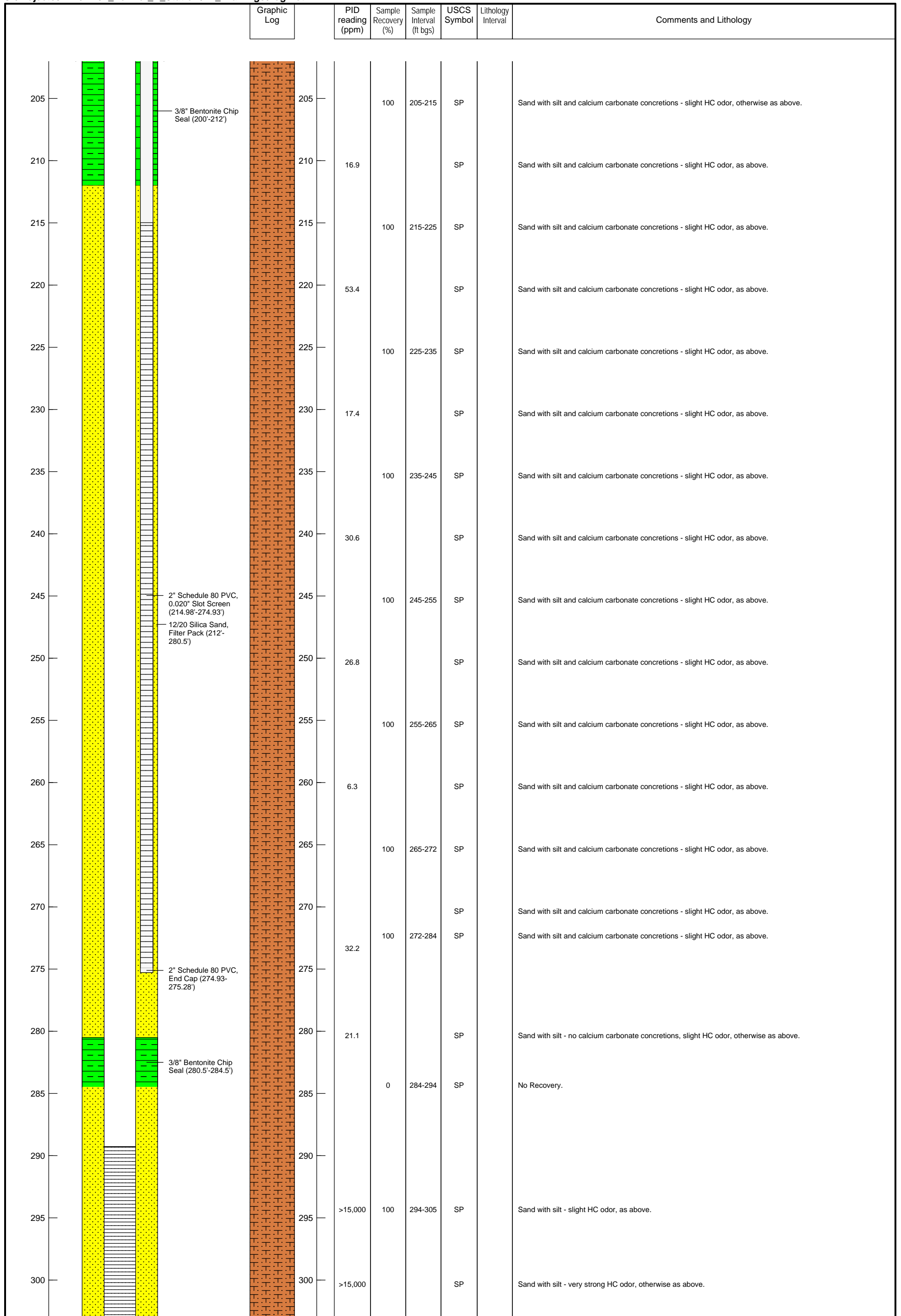
Geologist: P. Feltman
 Driller: Yellow Jacket Drilling
 Drilling start date: 8/19/19
 Well completion date: 8/30/19

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

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

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





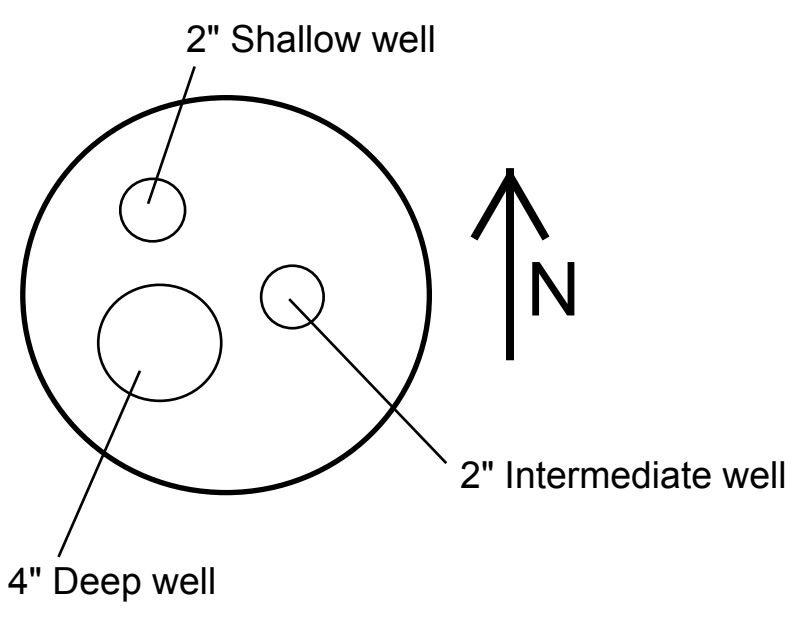
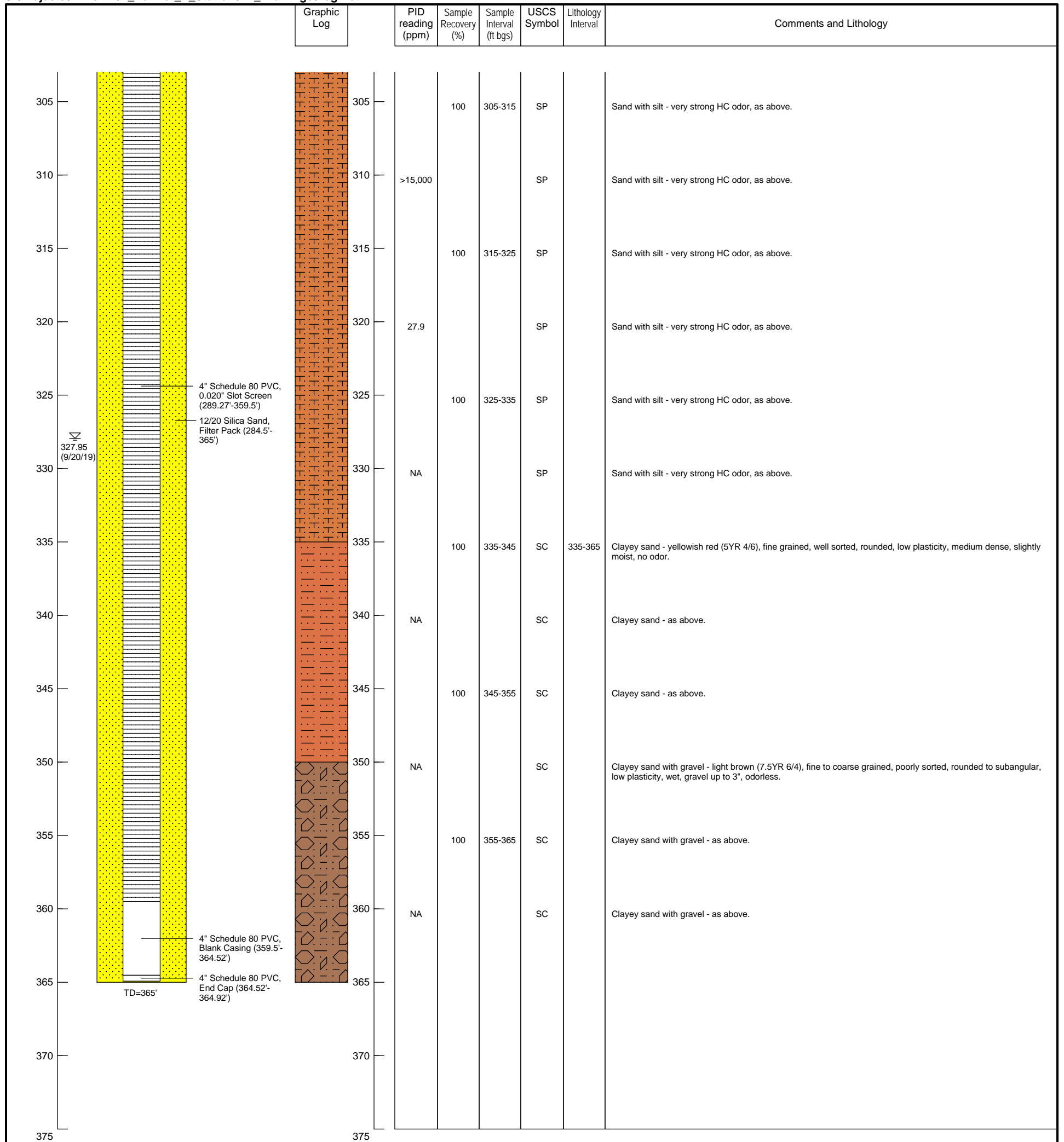
Geologist: P. Feltman
 Driller: Yellow Jacket Drilling
 Drilling start date: 8/19/19
 Well completion date: 8/30/19

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

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

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



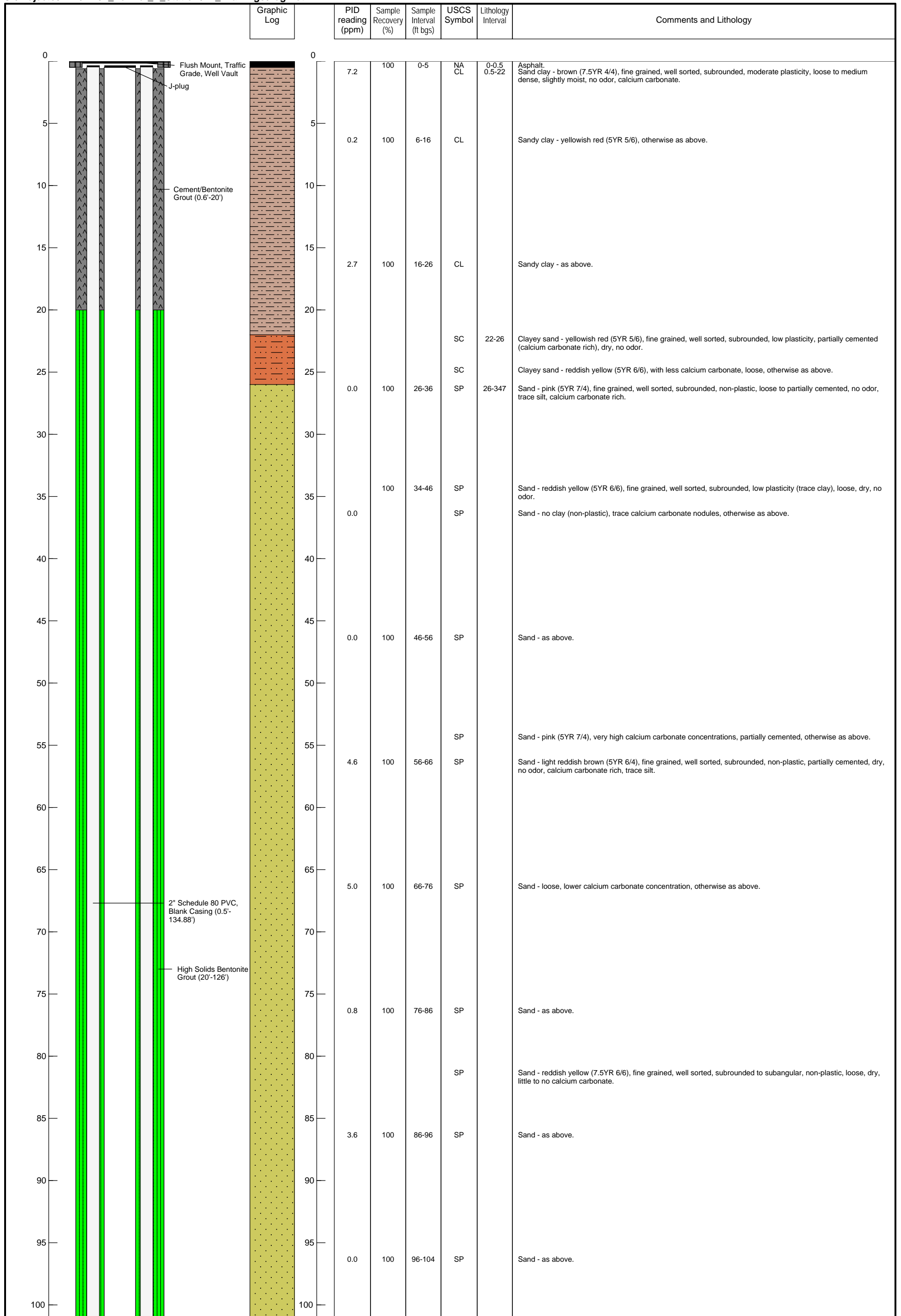


Geologist: P. Feltman
 Driller: Yellow Jacket Drilling
 Drilling start date: 8/19/19
 Well completion date: 8/30/19

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

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

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



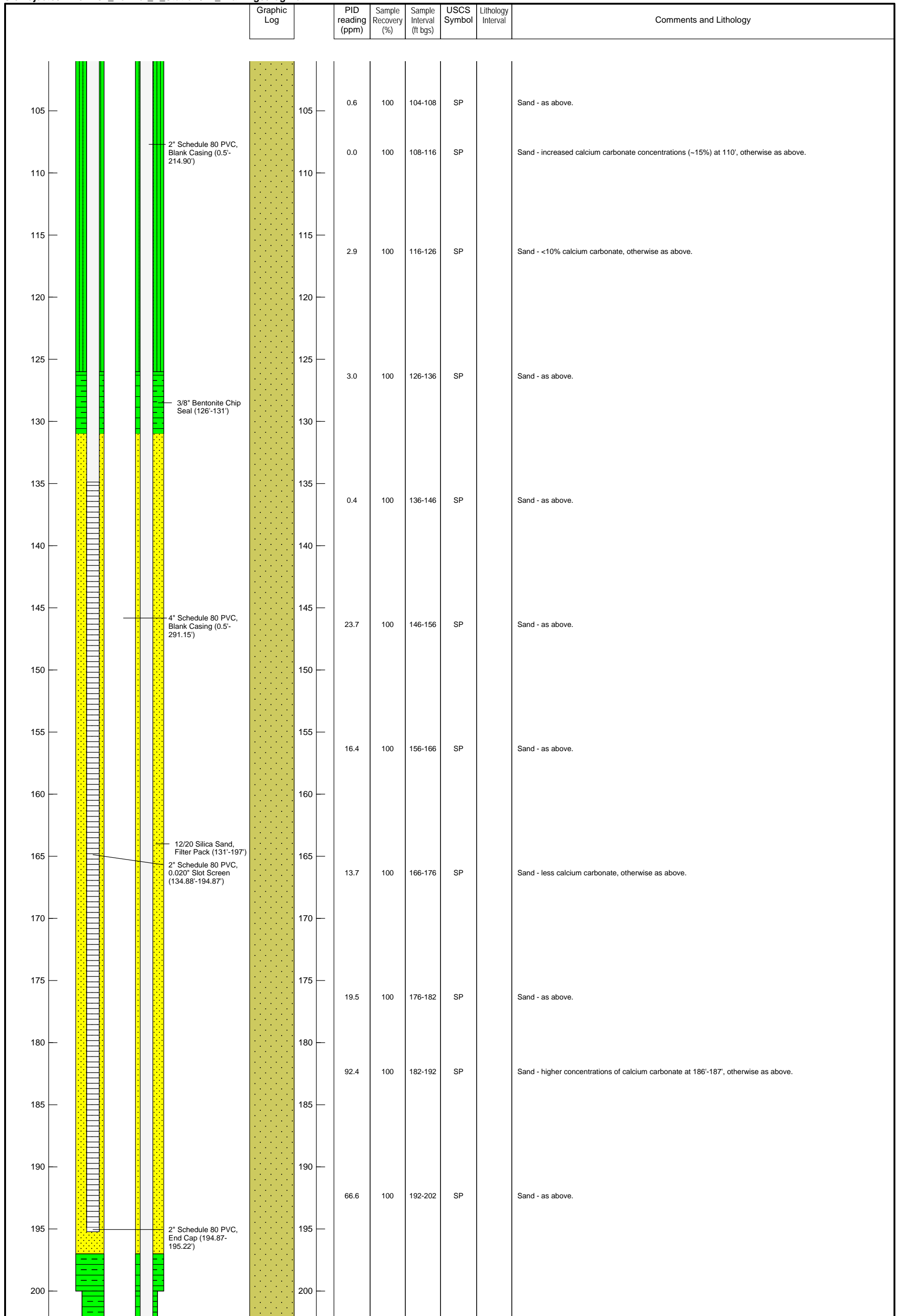
Geologist: H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 9/9/19
 Well completion date: 9/9/19

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

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

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





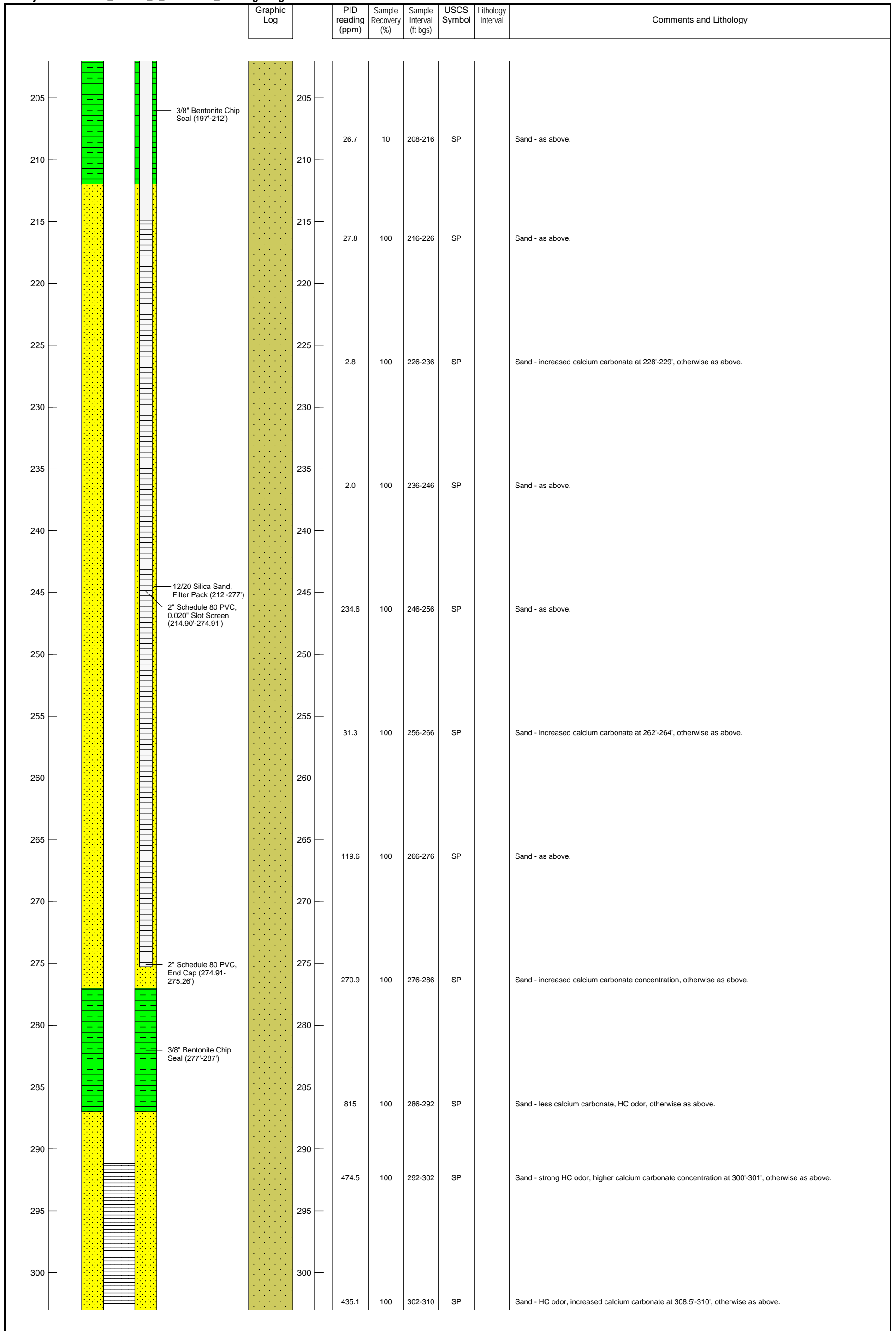
Geologist: H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 9/9/19
 Well completion date: 9/9/19

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

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

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





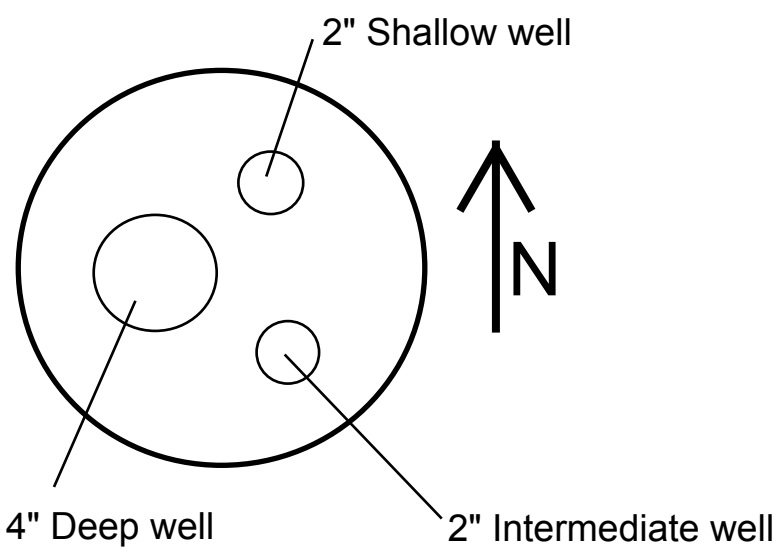
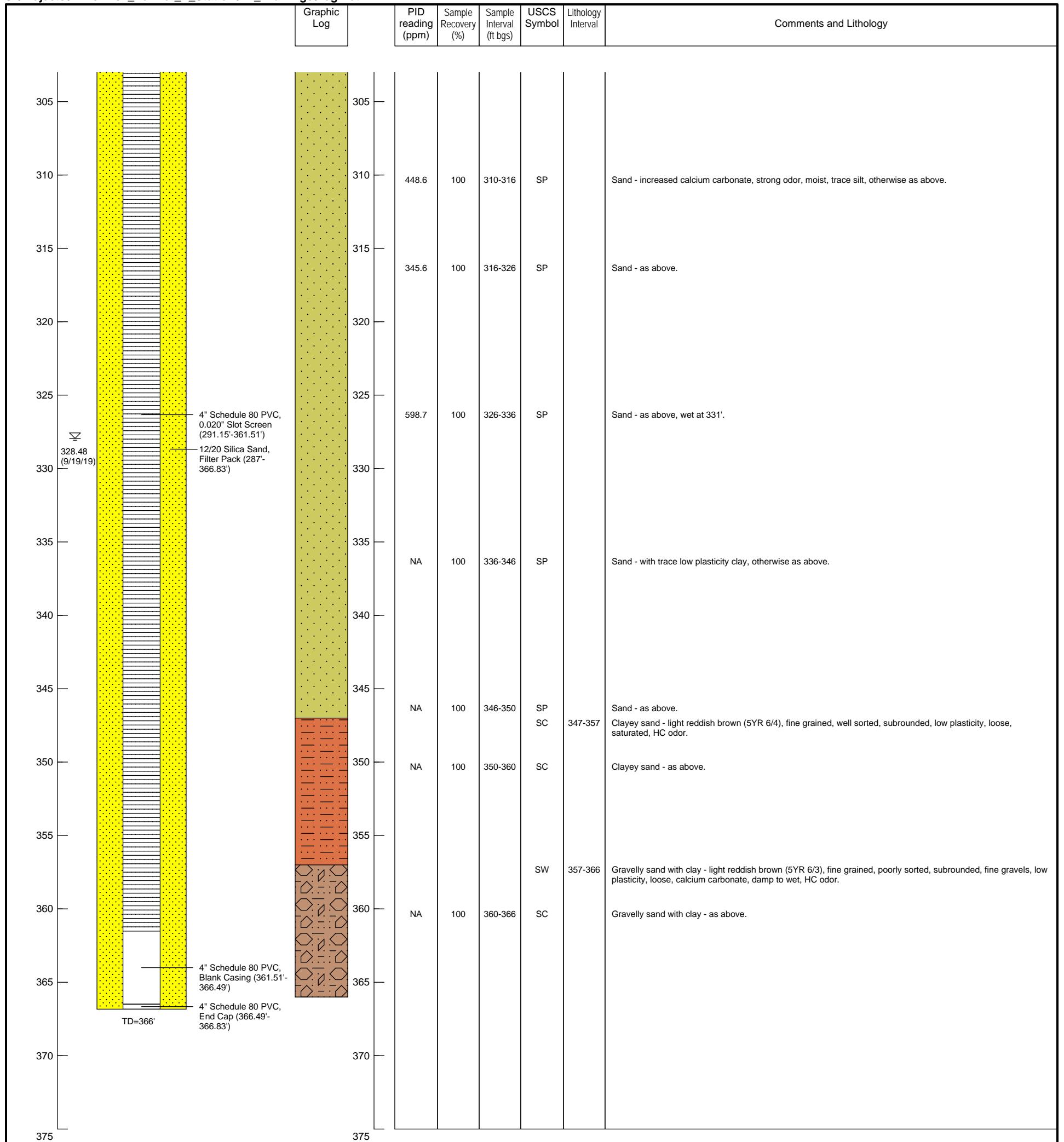
Geologist: H. Barnes
 Driller: Yellow Jacket Drilling
 Drilling start date: 9/9/19
 Well completion date: 9/9/19

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

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

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





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

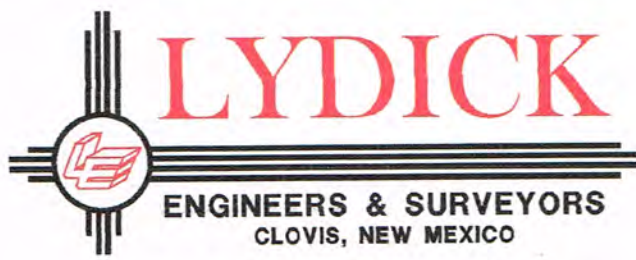
Drilling method: Sonic
 Borehole diameter: 10.25"/9.5"
 Sampling method: Sonic core

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

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

Appendix B

Survey Report



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

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

NAD 83:

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

Robert C. Lydick

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



Appendix C

Field Notes

Meter Test Report: City of Clovis		Verification Date	Meter Site Location			City	
		02/20/24	822 York Dr.			Clovis, NM	
Meter Number	Meter Brand	Meter Type		Meter Size	Totalizer Reading		
20004230-NL	Pulsafeeder	Mechanical		3/4"	1135000 GAL		
Pipe Material	Pipe Size	Pipe Class	Pipe OD	Thickness	Setup	Distance	Water Temp.
PVC	2"	Sch 80	2.375	0.218	Reflect	0.75	65.0 F

Verification Meter Info

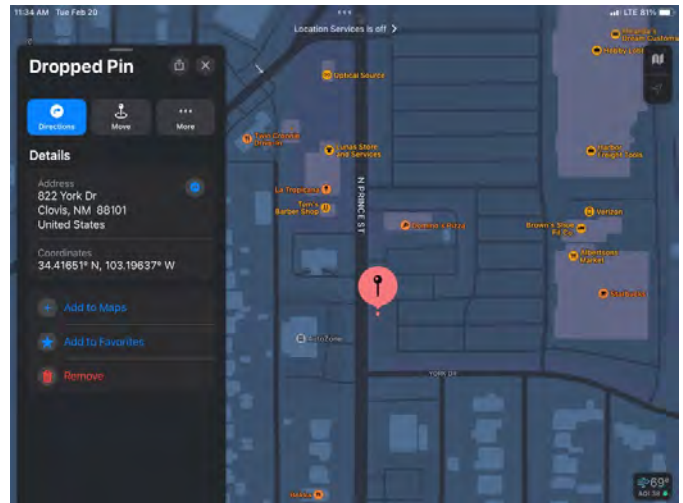
Verification Meter Used	Serial Number	Calibration Date	Technician
Flexim F601	06016014	03/08/22	Mario Gonzales

Tested Meter Start	Tested Meter End	Tested Meter Total		Verification Meter Total	Meter Accuracy (%)
57.0	81.0	24.0	÷	24.1	99.8

Comments

The meter tested well at 99.8%

Attachments



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: Alex Muñoz-Thompson			Date/Time on Site: 2/8/24 @ 8:40 am		
Compound Readings					
Service Gas Meter (cf): 30,501,000 (take photo)			Service Electric Meter (kWh): 69,130 (take photo)		
Oxidizer [Oxidizer Screen]					
Oxidizer Hours ¹	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)	
2301	0.0	1399	1344	67.9	
DPE Blower Information [HMI Screen]					
Vacuum (in H ₂ O) ²	Temp (°F) ²	Flow (SCFM) ²	Hours ³	Speed (Hz) ³	
68.3	108.1	725	2300.5	45	
Motor Control (Hours)					
DTA Blower ³		Moisture Sep Transfer Pump ³		Discharge Pump ³	
2202.9		35.1		857.5	
Groundwater Treatment Totals					
Flow Total from HMI (gal)		Flow Total from Physical Meter (gal)		Flow Rate from Physical Meter (gpm)	
10840 1084400		108 1083365		25	
Groundwater Well Information [HMI]					
Time Recorded	Well	Pump Hours ³	Well Level (ft abv trs) ⁵	Flow Total ⁴	
9:15	RW-1	2178.0	12.1	211,117	
	RW-2	2178.0	26.9	52,968	
	RW-3	2196.6	33.4	3384,143	
	RW-4	2194.8	28.3	337,494	
	BW-7R	1712.1	22.6	81,024	
	MW-11	2193.1	25.9	227,235	
	MW-12	1577.6	25.0	210,897	
	MW-13	2192.3	22.3	121,031	
	MW-16	2996.6	21.5	111,464	
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
NA	NA	NA	NR	NR	NR
Laboratory Samples Collected					
Match names and times from here on labels and chain of custody form					
FY Treated Eff (H ₂ O)	FY Raw (H ₂ O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)	
9:50	9:35	10:09	10:07	NS	

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

²Process Transmitter Information screen

³Motor Control screen (1, 2, or 3)

⁴Flow Totals

⁵Well Level Information

Compound Vapor Measurements					
Time	Sample Point	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Concentration (ppm)
9:27	SVE 1	58.7	1289.97	369.5	1329
9:27	SVE 2	59.2	286.91	328.8	118.5
9:27	SVE 3	Valve Closed	—————→		
9:27	Combined Influent	60.5	1016.62	2912	1026
9:45	Oxidizer Effluent				58.7

Field Measurements								
Time	Sample Point	GW Measurements			Vapor Measurements			
		Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Concentration (ppm)
1025	RW-1-S	35	21123	1.4	36.9	57.90	2654	225.5
	RW-1-I				37.5	143.78 35.01	1648 1605	390.1
	RW-1-D				37.2	59.64	2734	920.6
8:46	RW-2-S	10 psi	53059	0	38.5	46.26 (I)	2121 (I)	1951
	RW-2-I				37.1	32.94 (D)	1510 (D)	3166
	RW-2-D				37.3	51.54 (S)	2362 (S)	2344
11:21	RW-3-S	5 psi	384197	0	42.5	40.50	1856	158.9
	RW-3-I				42.3	34.20	1568	72.3
	RW-3-D				42.4	34.20 46.12	1568 2114	1682
11:40	RW-4-S	10 psi	99068	2.45	46.5	62.05	2844	65.9
	RW-4-I				44.2	53.78	2465	112.8
	RW-4-D				44.0	53.46	2450	1136
1203	BW-7R	64 psi	81076	0.77	47.5	83.38	3822	64.6
1108	BW-8-S				37.4	64.57	2960	46.5
1108	BW-8-I				36.5	42.52	1949	59.2
1108	BW-8-D				36.7	44.30	2031	847
1230	MW-11	2 psi	227373	0.68	off			→
1213	MW-12	16 psi	211094	0.58	49.3	91.67	4202 4202	57.8
1233	MW-13	0 psi	121117	0.45	off			→
1224	MW-16	264 0 psi	111264	0	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)
NA	NA	NA	NA

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

³Motor Control screen (1, 2, or 3)

⁵Well Level Information

²Process Transmitter Information screen

⁴Flow Totals

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: <i>Arx Nuñez-Thompson</i>			Date/Time on Site: <i>2/19/24 @ 1301</i>		
Compound Readings					
Service Gas Meter (cfh) <i>HMI H2 34,237,000</i> (take photo)			Service Electric Meter (kWh): <i>77878</i> (take photo)		
Oxidizer [Oxidizer Screen]					
Oxidizer Hours ¹	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)	
<i>2568</i>	<i>0.0</i>	<i>1396</i>	<i>1344</i>	<i>71.6</i>	
DPE Blower Information [HMI Screen]					
Vacuum (in H ₂ O) ²	Temp (°F) ²	Flow (SCFM) ²	Hours ³	Speed (Hz) ³	
<i>69.0</i>	<i>108.0</i>	<i>729</i>	<i>2568.6</i>	<i>45</i>	
Motor Control (Hours)					
DTA Blower ³		Moisture Sep Transfer Pump ³		Discharge Pump ³	
<i>2470.9</i>		<i>52.8</i>		<i>890.9</i>	
Groundwater Treatment Totals					
Flow Total from HMI (gal)		Flow Total from Physical Meter (gal)		Flow Rate from Physical Meter (gpm)	
<i>4314000 1131900</i>		<i>1,130,794</i>		<i>26</i>	
Groundwater Well Information [HMI]					
Time Recorded	Well	Pump Hours ³	Well Level (ft abv trs) ⁵	Flow Total ⁴	
<i>1350</i>	RW-1	<i>2443.1</i>	<i>10.3</i>	<i>235686</i>	
	RW-2	<i>2443.1</i>	<i>42.8</i>	<i>69679</i>	
	RW-3	<i>2461.8</i>	<i>33.9</i>	<i>393974</i>	
	RW-4	<i>2459.8</i>	<i>29.3</i>	<i>363939</i>	
	BW-7R	<i>1764.5</i>	<i>27.8</i>	<i>91615</i>	
	MW-11	<i>2458.3</i>	<i>25.4</i>	<i>238678</i>	
	MW-12	<i>1842.5</i>	<i>24.3</i>	<i>233831</i>	
	MW-13	<i>2457.5</i>	<i>22.2</i>	<i>122485</i>	
	MW-16	<i>2461.9</i>	<i>20.2</i>	<i>112054</i>	
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
<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NR</i>	<i>NR</i>	<i>NR</i>
Laboratory Samples Collected					
Match names and times from here on labels and chain of custody form					
FY Treated Eff (H ₂ O)	FY Raw (H ₂ O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)	
<i>1435</i>	<i>1421</i>	<i>1443</i>	<i>1448</i>	<i>1445</i>	

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

²Process Transmitter Information screen

³Motor Control screen (1, 2, or 3)

⁴Flow Totals

⁵Well Level Information

⁶Record old Pulsafeeder and new meter

Compound Vapor Measurements					
Time	Sample Point	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Concentration (ppm)
1325	SVE 1	65.7	1632.57	4677	776.3
↓	SVE 2	64.5	301.45	3454	64.0
	SVE 3	-3.1 (Valve Closed)	0.00 (Valve closed)	0 (Valve closed)	NR
	Combined Influent	65.0	974.11	2791	642.7
	Oxidizer Effluent				37.8

Field Measurements								
Time	Sample Point	GW Measurements			Vapor Measurements			
		Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Concentration (ppm)
1650	RW-1-S	0	113820	0.68	39.2	53.35	2445	264.1
	RW-1-I				39.6	33.79	1549	208.6
	RW-1-D				28	236985	1.6	39.1
1709	RW-2-S	0	360411	0	43.0	52.74	2417	1342
	RW-2-I				42.6	50.62	2320	1657
	RW-2-D				43.2	33.42	1532	1612
1627	RW-3-S	0	Old ⁶	Old ⁶	45.4	47.83	2192	29.2
	RW-3-I		594009	0.46	44.6	38.74	1776	146.2
	RW-3-D		New ⁶ 14717	New ⁶ NR	43.9	50.12	2297	1539
1558	RW-4-S	0	Old ⁶	Old ⁶	48.4	54.56	2501	20.5
	RW-4-I		99923	2.24	47.0	54.54	2500	24.4
	RW-4-D		New ⁶ 35547	New ⁶ NR	47.6	62.75	2876	966.0
1545	BW-7R	0	91437	0 (off)	48.2	87.82	4025	36.6
1802	BW-8-S				40.1	63.27	2900	201.3
1802	BW-8-I				40.8	45.47	2094	351.1
1802	BW-8-D				41.0	45.76	2098	1024
	MW-12							
1538	13 MW-11	0	122486	0	N/A (off)			
1532	11 MW-11	0	238764	0.86	off N/A			
1521	MW-16	0	113820	0.68	0.05 (off)	NA		

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)
NA	NA	NA	NA

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

³Motor Control scre 1, 2, or 3)

⁵Well Level Information

²Process Transmitter Information screen

⁴Flow Totals

⁶Record 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: Alex Nunez-Thompson			Date/Time on Site: 2/20/24 - 2/21/24		
Compound Readings					
Service Gas Meter (cf): (take photo)		NR		Service Electric Meter (kWh): (take photo)	
NR		NR		NR	
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 ₂ O) 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	
701 2/21/24	RW-1	2476.7	15.3	237460	
	RW-2	2459.2	22.7	69905	
	RW-3	2495.2	34.8	394889	
	RW-4	2491.8	29.1	368428	
	BW-7R	1778.7	21.2	92638	
	MW-11	2490.2	25.4	240227	
	MW-12	1874.3	24.7	235580	
	MW-13	2477.8 (stopped)	22.7	122496	
	MW-16	2496.6	20.5	112054	
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
0gal	0gal	0gal			
Laboratory Samples Collected					
Match names and times from here on labels and chain of custody form					
FY Treated Eff (H ₂ O)	FY Raw (H ₂ O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)	

* SEE 2/19/2024

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

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

⁵Well Level Information
⁶Record old Pulsafeeder and new meter

Compound Vapor Measurements					
Time	Sample Point	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Concentration (ppm)
	SVE 1				
	SVE 2				
	SVE 3				
	Combined Influent				
	Oxidizer Effluent				

Field Measurements							
Time	Sample Point	GW Measurements			Vapor Measurements		
		Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)
707	RW-1-S	4030	237,460	1.42			
	RW-1-I						
	RW-1-D						
719	RW-2-S	10	36049	0.3			
	RW-2-I						
	RW-2-D						
723	RW-3-S	10	Old ⁶	Old ⁶			
	RW-3-I		394,866	0.56			
	RW-3-D		New ⁶ 15405	New ⁶ 0.4			
728	RW-4-S	10	Old ⁶	Old ⁶			
	RW-4-I		99994	2.66			
	RW-4-D		New ⁶ 318709	New ⁶ 1.7			
734	BW-7R	102	92580	0.98			
	BW-8-S						
	BW-8-I						
	BW-8-D						
	MW-113	OFF					
	MW-12	2	235575	1.28			
936	MW-11	2	230362	0.84			
938	MW-16	0	115910	1.44			

2-21-24

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)
0gal		Could not open - needs 1"	8gal

¹Only for on the oxidizer main screen, not the H2K HMI
²Process Transmitter Information screen
³Motor Control scre
⁴Flow Totals
⁵Well Level Information
⁶Record old Pulsafeeder and new meter

2/21/24

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: <i>i Torres</i>			Date/Time on Site: <i>3/5/24 - 3/6/24</i>		
Compound Readings					
Service Gas Meter (cf): <i>34517</i> (take photo)			Service Electric Meter (kWh): <i>82952</i> (take photo)		
Oxidizer [Oxidizer Screen]					
Oxidizer Hours ¹	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)	
<i>system shut down</i>					
DPE Blower Information [HMI Screen]					
Vacuum (in H ₂ O) ²	Temp (°F) ²	Flow (SCFM) ²	Hours ³	Speed (Hz) ³	
<i>0</i>	<i>52.1</i>	<i>0</i>	<i>2589.3</i>	<i>45</i>	
Motor Control (Hours)					
DTA Blower ³		Moisture Sep Transfer Pump ³		Discharge Pump ³	
<i>2848.7</i>		<i>53.4</i>		<i>960.6</i>	
Groundwater Treatment Totals					
Flow Total from HMI (gal)		Flow Total from Physical Meter (gal)		Flow Rate from Physical Meter (gpm)	
<i>1,226,300</i>		<i>1,225,700</i>		<i>22</i>	
Groundwater Well Information [HMI]					
Time Recorded	Well	Pump Hours ³	Well Level (ft abv trs) ⁵	Flow Total ⁴	
<i>1508</i>	RW-1	<i>2623.1</i>	<i>9</i>	<i>260565</i>	
	RW-2	<i>2780.0</i>	<i>50.1</i>	<i>80874</i>	
	RW-3	<i>2815.9</i>	<i>33.9</i>	<i>408305</i>	
	RW-4	<i>2812.5</i>	<i>29.0</i>	<i>402619</i>	
	BW-7R	<i>2099.0</i>	<i>22.9</i>	<i>108118</i>	
	MW-11	<i>2672.9</i>	<i>29.8</i>	<i>248485</i>	
	MW-12	<i>2194.4</i>	<i>24.8</i>	<i>254,856</i>	
	MW-13	<i>2477.8</i>	<i>22.6</i>	<i>122,496</i>	
	MW-16	<i>2747.5</i>	<i>20.8</i>	<i>122417</i>	
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
<i>system shut off</i>			<i>NR</i>	<i>NR</i>	<i>NR</i>
Laboratory Samples Collected					
Match names and times from here on labels and chain of custody form					
FY Treated Eff (H ₂ O)	FY Raw (H ₂ O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)	
<i>1558</i>	<i>1532 2/5/24</i>	<i>system shut off</i>			

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

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

⁵Well Level Information
⁶Record old Pulsafeeder and new meter

Compound Vapor Measurements					
Time	Sample Point	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Concentration (ppm)
	SVE 1		<i>System Shut Down</i>		
	SVE 2				
	SVE 3				
	Combined Influent				
	Oxidizer Effluent				

Field Measurements								
Time	Sample Point	GW Measurements			Vapor Measurements			
		Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Concentration (ppm)
1835	RW-1-S		260700		<i>System Shut Down</i>			
	RW-1-I							
	RW-1-D							
1740	RW-2-S		Pump shut off no flow, only Back Flow					
	RW-2-I							
	RW-2-D							
3/24 824	RW-3-S		Old ⁶	Old ⁶			NR	
	RW-3-I	0						
	RW-3-D		New ⁶ 10300	New ⁶ 10				
822	RW-4-S		Old ⁶	Old ⁶				
	RW-4-I	5						
	RW-4-D		New ⁶ 91000	New ⁶				
814	BW-7R	602	108500	5				
	BW-8-S							
	BW-8-I							
	BW-8-D							
833	MW-11		248500					
810	MW-12	0	253900	7				
758	MW-13	0	122500	Shut down				
745	MW-16	0	138900	12				

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)

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

³Motor Control screen (1, 2, or 3)

⁵Well Level Information

²Process Transmitter Information screen

⁴Flow Totals

⁶Record 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: <i>Ray Villanueva</i>		Date/Time on Site: <i>3/26/2024</i>			
Compound Readings					
Service Gas Meter (cf): (take photo) <i>45173</i>		Service Electric Meter (kWh): (take photo) <i>088937</i>			
Oxidizer [Oxidizer Screen]					
Oxidizer Hours ¹	Dilution Valve (%) NR	Ox Inlet Temp (°F) NR	Ox Outlet Temp (°F) NR	NG Valve (%) NR	
DPE Blower Information [HMI Screen]					
Vacuum (in H ₂ O) ² NR	Temp (°F) ² NR	Flow (SCFM) ² NR	Hours ³	Speed (Hz) ³ NR	
Motor Control (Hours)					
DTA Blower ³ <i>3330.3</i> <i>2584.6 RV</i>		Moisture Sep Transfer Pump ³ <i>53.4</i>		Discharge Pump ³ <i>1020.4</i>	
Groundwater Treatment Totals					
Flow Total from HMI (gal)	Flow Total from Physical Meter (gal)		Flow Rate from Physical Meter (gpm)		
<i>1,314,700</i>	<i>1,313,500</i>		<i>NR</i>		
Groundwater Well Information [HMI]					
Time Recorded	Well	Pump Hours ³	Well Level (ft abv trs) ⁵	Flow Total ⁴	
	RW-1	<i>3116.9</i>	<i>8.7</i>	<i>294511</i>	
	RW-2	<i>2782.6</i>	<i>28.6</i>	<i>81136</i>	
	RW-3	<i>3315.5</i>	<i>34.3</i>	<i>422529</i>	
	RW-4	<i>3312.1</i>	<i>31.6</i>	<i>443438</i>	
	BW-7R	<i>2598.7</i>	<i>23.8</i>	<i>113783</i>	
	MW-11	<i>26173.4</i>	<i>30.1</i>	<i>248492</i>	
	MW-12	<i>2694.0</i>	<i>24.5</i>	<i>274530</i>	
	MW-13	<i>2644.6</i>	<i>21.6</i>	<i>128349</i>	
	MW-16	<i>3247.2</i>	<i>21.0</i>	<i>112417</i>	
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
<i>NR</i>			<i>—</i>	<i>—</i>	<i>3,90</i>
Laboratory Samples Collected					
Match names and times from here on labels and chain of custody form					
FY Treated Eff (H ₂ O)	FY Raw (H ₂ O)	FY Ox Eff (vapor) No Sample	FY Comb Inf (vapor) No Sample	DTA Eff (vapor)	
<i>3/27/24 10:38</i>	<i>3/27/24 09:38</i>			<i>3/27/24 10:30</i>	

Bottle Kits Remaining: _____

Tedlar Bags Remaining: _____

¹Only found on the oxidizer panel screen

³Motor Control screen (1, 2, or 3)

⁵Well Level Information

²Process Transmitter Information screen

⁴Flow Totals

⁶Record old Pulsafeeder and new meter

Former Y O&M

Date:

Compound Vapor Measurements					
Time	Sample Point	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Concentration (ppm)
	SVE 1	NR	NR	NR	NR
	SVE 2	NR	NR	NR	NR
	SVE 3	NR	NR	NR	NR
	Combined Influent	NR	NR	NR	NR
	Oxidizer Effluent				NR

Field Measurements

Time	Sample Point	GW Measurements			Vapor Measurements			
		Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Concentration (ppm)
0830	RW-1-S	62 PSI	295.8	1.25	NR	NR	NR	NR
	RW-1-I				NR	NR	NR	NR
	RW-1-D				NR	NR	NR	NR
1714	RW-2-S	∅	42.9	Gate vlv. was close. open for sample 1.0	NR	NR	NR	NR
	RW-2-I				NR	NR	NR	NR
	RW-2-D				NR	NR	NR	NR
1320	RW-3-S	2 PSI	Old ⁶	Old ⁶	NR	NR	NR	NR
	RW-3-I		421.8	.5	NR	NR	NR	NR
	RW-3-D		New ⁶ 27.86	New ⁶ .5	NR	NR	NR	NR
1310	RW-4-S	∅	Old ⁶	Old ⁶	NR	NR	NR	NR
	RW-4-I		99.8 103.80	1.25	NR	NR	NR	NR
	RW-4-D		New ⁶ 103.80	New ⁶ 1.5	NR	NR	NR	NR
1300	BW-7R	42 PSI	113.6	1.5	NR	NR	NR	NR
	BW-8-S				NR	NR	NR	NR
	BW-8-I				NR	NR	NR	NR
	BW-8-D				NR	NR	NR	NR
1230	MW-11	∅	248.5		NR	NR	NR	NR
1252	MW-12	∅	274.7	1.25	NR	NR	NR	NR
	MW-13				NR	NR	NR	NR
1242	MW-16	∅	161.4	.5	NR	NR	NR	NR

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 on the oxidizer main screen, not the H2K HMI
² after 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: A. Nuzzell-Thompson			Date/Time on Site: 4/17/24 11:20AM		
Compound Readings					
Service Gas Meter (cf): (take photo) NR			Service Electric Meter (kWh): (take photo) NR		
Oxidizer [Oxidizer Screen]					
Oxidizer Hours ¹	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)	
NR	NR	NR	NR	NR	
DPE Blower Information [HMI Screen]					
Vacuum (in H ₂ O) ²	Temp (°F) ²	Flow (SCFM) ²	Hours ³	Speed (Hz) ³	
NR	NR	NR	NR	NR	
Motor Control (Hours)					
DTA Blower ³		Moisture Sep Transfer Pump ³		Discharge Pump ³	
3692.5		53.4		1102.1	
Groundwater Treatment Totals					
Flow Total from HMI (gal)		Flow Total from Physical Meter (gal)		Flow Rate from Physical Meter (gpm)	
1439700		NR		NR	
Groundwater Well Information [HMI]					
Time Recorded	Well	Pump Hours ³	Well Level (ft abv trs) ⁵	Flow Total ⁴	
14:10 PM	RW-1	3380.2	7.7	314353	
	RW-2	2784.5	28.9	81143	
	RW-3	3342.3	31.8	423540	
	RW-4	3688.1	22.7	527098	
	BW-7R	2958.8	22.6	113834	
	MW-11	2673.4	NR	249057	
	MW-12	3051.9	23.4	322605	
	MW-13	2987.2	21.3	152884	
	MW-16	3607.4	21.1	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
NR	NR	NR	NR	NR	NR
Laboratory Samples Collected					
Match names and times from here on labels and chain of custody form					
FY Treated Eff (H ₂ O)	FY Raw (H ₂ O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)	
2:40 PM	3:01 PM	NS	NS	NS	

title Kits Remaining: _____

Tedlar Bags Remaining: _____

¹Only found on the oxidizer panel screen

³Motor Control screen (1, 2, or 3)

⁵Well Level Information

²Process Transmitter Information screen

⁴Flow Totals

⁶Record old Pulsafeeder and new meter

Time	Sample Point	Compound Va		Measurements		
		Vacuum (in H ₂ O)		Air Flow (scfm)	Velocity (fps)	Concentration (ppm)
	SVE 1					
	SVE 2			NR		
	SVE 3			SYSTEM OFF		
	Combined Influent					
	Oxidizer Effluent					

Field Measurements								
Time	Sample Point	GW Measurements			Vapor Measurements			
		Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Concentration (ppm)
	RW-1-S							
	RW-1-I							
	RW-1-D							
	RW-2-S							
	RW-2-I							
	RW-2-D							
	RW-3-S		Old ⁶	Old ⁶				
	RW-3-I							
	RW-3-D		New ⁶	New ⁶	NR			
	RW-4-S		Old ⁶	Old ⁶				
	RW-4-I							
	RW-4-D		New ⁶	New ⁶				
	BW-7R							
	BW-8-S							
	BW-8-I							
	BW-8-D							
	MW-11							
	MW-12							
	MW-13							
	MW-16							

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)
NR	NA	NA	NA

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

²Process Transmitter Information screen

³Motor Control screen (1, 2, or 3)

⁴Flow Totals

⁵Well Level Information

⁶Record 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: <i>Rey Villanueva</i>			Date/Time on Site: <i>04/28/2024 @ 0230</i>		
Compound Readings					
Service Gas Meter (cf): (take photo) <i>45173</i>			Service Electric Meter (kWh): (take photo) <i>95814</i>		
Oxidizer [Oxidizer Screen]					
Oxidizer Hours ¹	Dilution Valve (%)	Ox Inlet Temp (°F)	Ox Outlet Temp (°F)	NG Valve (%)	
	NR	NR	NR	NR	
DPE Blower Information [HMI Screen]					
Vacuum (in H ₂ O) ²	Temp (°F) ²	Flow (SCFM) ²	Hours ³	Speed (Hz) ³	
NR	NR	NR		NR	
Motor Control (Hours)					
DTA Blower ³		Moisture Sep Transfer Pump ³		Discharge Pump ³	
<i>3950.2</i>		<i>53.4</i>		<i>1136.0</i>	
Groundwater Treatment Totals					
Flow Total from HMI (gal)		Flow Total from Physical Meter (gal)		Flow Rate from Physical Meter (gpm)	
<i>1,490,100</i>		<i>1488845 gal</i>		<i>26 gpm</i>	
Groundwater Well Information [HMI]					
Time Recorded	Well	Pump Hours ³	Well Level (ft abv trs) ⁵	Flow Total ⁴	
NR	RW-1	<i>3637.8</i>	<i>25.3</i>	<i>3145.06</i> <i>2445.62</i>	
	RW-2	<i>2784.5</i>	<i>28.7</i>	<i>8114.3</i>	
NR	RW-3	<i>33.42.3</i>	<i>31.7</i>	<i>423540</i>	
NR	RW-4	<i>3946.1</i>	<i>25.4</i>	<i>564930</i>	
	BW-7R	<i>2958.8</i>	<i>27.7</i>	<i>1138.34</i>	
NR	MW-11	<i>2473.4</i>	<i>0.9</i>	<i>249057</i>	
	MW-12	<i>3309.8</i>	<i>23.8</i>	<i>345816</i> <i>1668.2</i>	
	MW-13	<i>3245.0</i>	<i>21.3</i>	<i>1668.07</i>	
	MW-16	<i>3865.2</i>	<i>20.6</i>	<i>112417</i>	
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
			—	—	<i>3.93</i>
Laboratory Samples Collected					
Match names and times from here on labels and chain of custody form					
FY Treated Eff (H ₂ O)	FY Raw (H ₂ O)	FY Ox Eff (vapor)	FY Comb Inf (vapor)	DTA Eff (vapor)	
<i>16:50</i>	<i>16:45</i>	No Sample	No Sample	<i>No Sample</i>	

Bottle Kits Remaining: _____

Tedlar Bags Remaining: _____

¹Only found on the oxidizer panel screen
²Process Transmitter Information screen
 Rev. 7 (3/21/2024)

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

⁵Well Level Information
⁶Record old Pulsafeeder and new meter

Compound Vapor Measurements								
Time	Sample Point	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Concentration (ppm)			
	SVE 1	NR	NR	NR	NR			
	SVE 2	NR	NR	NR	NR			
	SVE 3	NR	NR	NR	NR			
	Combined Influent	NR	NR	NR	NR			
	Oxidizer Effluent				NR			
Field Measurements								
GW Measurements					Vapor Measurements			
Time	Sample Point	Pressure (psi)	Total Flow (gal)	Flow Rate (gpm)	Vacuum (in H ₂ O)	Air Flow (scfm)	Velocity (fps)	Concentration (ppm)
1450	RW-1-S	∅	03145	0.35 gpm	NR	NR	NR	NR
	RW-1-I				NR	NR	NR	NR
	RW-1-D				NR	NR	NR	NR
NR 128' NR 1535	RW-2-S	∅	00429	0.35 gpm	NR	NR	NR	NR
	RW-2-I				NR	NR	NR	NR
	RW-2-D				NR	NR	NR	NR
NR	RW-3-S		Old ⁶	Old ⁶	NR	NR	NR	NR
	RW-3-I				NR	NR	NR	NR
	RW-3-D		New ⁶	New ⁶	NR	NR	NR	NR
0830	RW-4-S	∅	Old ⁶	Old ⁶	NR	NR	NR	NR
	RW-4-I		998	2.0	NR	NR	NR	NR
	RW-4-D		New ⁶ 533544	New ⁶ 3.5	NR	NR	NR	NR
NR	BW-7R				NR	NR	NR	NR
	BW-8-S				NR	NR	NR	NR
	BW-8-I				NR	NR	NR	NR
	BW-8-D				NR	NR	NR	NR
NR	MW-11				NR	NR	NR	NR
NR	MW-12	Inaccessible (Car Parked over) all Day.			NR	NR	NR	NR
1447	MW-13	∅	01671	.68	NR	NR	NR	NR
0815	MW-16	∅	01729 657	.5	NR	NR	NR	NR
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)		

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

²Process Transmitter Information screen

³Motor Control screen (1, 2, or 3)

⁴Flow Totals

⁵Well Level Information

⁶Record old Pulsafeeder and new meter



Pumping Conditions (pg.1)
GROUNDWATER ELEVATION DATA SHEET

Project Name: Former Y Station

Field Tech: Ray Villanueva

Project #: DB18.1157

Date: 2/3/26-28/2024

Project Manager: G. Herrmann

Sheet # 1 of 1

Well ID	Depth to NAPL	Depth to Water	Total Depth	Comments
RW-1	—		365'	Pumping well
RW-2			365'	Pumping well ; Pump valve shut off open for sample.
RW-3			365'	Pumping well
RW-4			366'	Pumping well
BW-4	—	332.47		
BW-5	332.03	332.01		
BW-6	—	332.97		
BW-7	—	331.26		
BW-7R			365'	Pumping well
BW-8	—	331.02		
BW-9	—	331.47		Pumping
BW-10	—	329.18		Pumping
MW-11			365'	Pumping well
MW-12			365'	Pumping well
MW-13			365'	Pumping well
MW-14	—	321.78	356'	Pumping
MW-15	—	326.04	358'	Pumping
MW-16			366'	Pumping well
MW-17	—	332.43	375'	Pumping

Pumping Conditions
GROUNDWATER ELEVATION DATA SHEET

 Project Name: Former Y Station

Sampler: _____

 Project #: DB18.1157

Date: _____

 Project Manager: G. Herrmann

 Sheet # 1 of 2

<u>Well ID</u>	<u>Depth to NAPL</u>	<u>Depth to Water</u>	<u>Total Depth</u>	<u>Comments</u>
BW-4	—	332.47		
BW-5	332.01	332.03		
BW-6	—	332.47		
BW-7	—	331.24		
BW-8				Reading not taken
BW-9	—	331.47		
BW-10	—	329.18		
MW-14	—	321.78		
MW-15	—	326.04		
MW-17	—	332.43		

 Comments:



**Static Conditions
GROUNDWATER ELEVATION DATA SHEET**

Project Name: Former Y Station Sampler: _____

Project #: DB18.1157 Date: _____

Project Manager: G. Herrmann Sheet # 2 of 2

<u>Well ID</u>	<u>Transducer Set Pt</u>	<u>Transducer Level (WL above transducer)</u>	<u>Depth to water (set pt – Lvl)</u>	<u>Comments</u>
BW-7R				
RW-1				
RW-2				
RW-3				
RW-4				
MW-11				
MW-12				
MW-13				
MW-16				

Comments:

Static Conditions
GROUNDWATER ELEVATION DATA SHEET

 Project Name: Former Y Station

 Sampler: 1 Tomes

 Project #: DB18.1157

 Date: 3/28/24

 Project Manager: G. Herrmann

 Sheet # 1 of 2

<u>Well ID</u>	<u>Depth to NAPL</u>	<u>Depth to Water</u>	<u>Total Depth</u>	<u>Comments</u>
BW-4	—	332.36		
BW-5	—	332.03		Blank
BW-6	—	330 322.71		
BW-7	—	331.22		
BW-8	—	331.02		
BW-9	—	331.36		
BW-10	—	329.07		
MW-14	—	321.86		
MW-15	—	326.13		
MW-17	—	332.49		

 Comments:

Static Conditions
GROUNDWATER ELEVATION DATA SHEET

Project Name: Former Y Station Sampler: _____

Project #: DB18.1157 Date: _____

Project Manager: G. Herrmann Sheet # 2 of 2

<u>Well ID</u>	<u>Transducer Set Pt</u>	<u>Transducer Level (WL above transducer)</u>	<u>Depth to water (set pt - Lvl)</u>	<u>Comments</u>
BW-7R				
RW-1				
RW-2				
RW-3				
RW-4				
MW-11				
MW-12				
MW-13				
MW-16				

Comments:



GROUNDWATER MONITORING DATA SHEET

Project Name: Former Y Station
Project #: DB18.1157
Project Manager: G. Herrmann

Sampler: Tomas
HS Deploy Date/Time: 3/28/24
Sample Data/Time: 3/29/24
1038

Well #: BW-4
Well Diameter: 4 (inches)
Depth to Water: 332.24 (feet btoc)
Total Depth of Well: _____ (feet)

Height of Water Column: _____ (feet)
Sample Method: Clab / HydraSleeve
HS Set Point: 339' feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
<u>7.25</u>	<u>19.1</u>	<u>792</u>	<u>177.9</u>	<u>7.43</u>	<u>-</u>

Sample Description: (5) vob's

Physical Observations: clear / orderless

Analytical Method(s): 8260B, 504.1

Other notes (well condition, difficulties, corrective actions):

GROUNDWATER MONITORING DATA SHEET

 Project Name: Former Y Station

 Sampler: Tomes

 Project #: DB18.1157

 HS Deploy Date/Time: 3/26/24

 Project Manager: G. Herrmann

 Sample Date/Time: 3/29/24
1025

 Well #: BN-5

 Well Diameter: 4 (inches)

Height of Water Column: _____ (feet)

 Depth to Water: 332.03 (feet btoc)

 Sample Method: Grab / HydraSleeve

Total Depth of Well: _____ (feet)

 HS Set Point: 345' feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
<u>7.38</u>	<u>19.4</u>	<u>761</u>	<u>161.7</u>	<u>2.44</u>	<u>—</u>

 Sample Description: C57 VOA's

 Physical Observations: clear w/ yellow tint & HC smell.

 Analytical Method(s): 8260B, 504.1

Other notes (well condition, difficulties, corrective actions):

GROUNDWATER MONITORING DATA SHEET

Project Name: Former Y Station Sampler: 1 Times
 Project #: DB18.1157 HS Deploy Date/Time: 3/28/24
 Project Manager: G. Herrmann Sample Data/Time: 3/29/24
1055

Well #: BW-8
 Well Diameter: 4 (inches) Height of Water Column: _____ (feet)
 Depth to Water: 331.02 (feet btoc) Sample Method: Grab / HydraSleeve
 Total Depth of Well: _____ (feet) HS Set Point: _____ feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
<u>6.92</u>	<u>19.2</u>	<u>1242</u>	<u>96.0</u>	<u>1.94</u>	<u>—</u>

Sample Description: (5) VOA's

Physical Observations: Turbid, black organic floating material.

Analytical Method(s): 82100 B, 504-1

Other notes (well condition, difficulties, corrective actions):

GROUNDWATER MONITORING DATA SHEET

Project Name: Former Y Station Sampler: 1 Torres
 Project #: DB18.1157 HS Deploy Date/Time: —
 Project Manager: G. Herrmann Sample Data/Time: 3/26/24
1552

Well #: MW-13
 Well Diameter: 5" (inches) Height of Water Column: — (feet)
 Depth to Water: transducer (feet btoc) Sample Method: Grab HydraSleeve
 Total Depth of Well: 362-50 (feet) HS Set Point: — feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
7.41	22.5	779	64.7	7.55	—

Sample Description: 5 VAS

Physical Observations: Clear

Analytical Method(s): 82uob, 504.1

Other notes (well condition, difficulties, corrective actions):

GROUNDWATER MONITORING DATA SHEET

 Project Name: Former Y Station

 Sampler: 1 Torres

 Project #: DB18.1157

 HS Deploy Date/Time: 3/29/24 3:08/24

 Project Manager: G. Herrmann

 Sample Data/Time: 915
3/29/24

 Well #: MW-14

 Well Diameter: 4 (inches)

 Height of Water Column: 34.14 (feet)

 Depth to Water: 321.80 (feet btoc)

 Sample Method: Grab / HydraSleeve

 Total Depth of Well: 356 (feet)

 HS Set Point: 338' feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
6.90	17.7	648	192.3	6.78	—

 Sample Description: (5) VOA's

 Physical Observations: Clear / orderless

 Analytical Method(s): 8260 B 504.1

Other notes (well condition, difficulties, corrective actions):

GROUNDWATER MONITORING DATA SHEET

 Project Name: Former Y Station

 Sampler: Tomes

 Project #: DB18.1157

 HS Deploy Date/Time: 3/28/24

 Project Manager: G. Herrmann

 Sample Data/Time: 3/29/24
0934

 Well #: MW-15

 Well Diameter: 4 (inches)

 Height of Water Column: 31-87 (feet)

 Depth to Water: 326.13 (feet btoc)

 Sample Method: Grab / HydraSleeve

 Total Depth of Well: 358 (feet)

 HS Set Point: 341.3 feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
<u>7.76</u>	<u>18.3</u>	<u>709</u>	<u>183.6</u>	<u>32.5</u>	<u>—</u>

 Sample Description: clear^r (5) vOA's

 Physical Observations: clear / odorless

 Analytical Method(s): 260B 994:1

Other notes (well condition, difficulties, corrective actions):

GROUNDWATER MONITORING DATA SHEET

Project Name: Former Y Station Sampler: ~~3/1~~ Torres
 Project #: DB18.1157 HS Deploy Date/Time: —
 Project Manager: G. Herrmann Sample Data/Time: 3/26/24
1517

Well #: MW-16
 Well Diameter: 5" (inches) Height of Water Column: — (feet)
 Depth to Water: transducer (feet btoc) Sample Method: Grab / HydraSleeve
 Total Depth of Well: 304.32 (feet) HS Set Point: — feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
7.68	25.5	605	112.6	6.40	—

Sample Description: 5 VAS,

Physical Observations: Clean

Analytical Method(s): 8700B, 504.1

Other notes (well condition, difficulties, corrective actions):

GROUNDWATER MONITORING DATA SHEET

 Project Name: Former Y Station

 Sampler: Tome

 Project #: DB18.1157

 HS Deploy Date/Time: 3/20/24

 Project Manager: G. Herrmann

 Sample Date/Time: 3/29/24
0945

 Well #: MW-17

 Well Diameter: 4 (inches)

 Height of Water Column: 31.51 (feet)

 Depth to Water: 332.49 (feet btoc)

 Sample Method: Grab / HydraSleeve

 Total Depth of Well: 304.00 (feet)

 HS Set Point: 346.25 feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
7.43	18.6	668	157.6	4.32	—

 Sample Description: (5) VOA's

 Physical Observations: clear / odorless

 Analytical Method(s): 8260B, 804.1

Other notes (well condition, difficulties, corrective actions):

GROUNDWATER MONITORING DATA SHEET

Project Name: Former Y Station

Sampler: 1 Tones

Project #: DB18.1157

HS Deploy Date/Time:

Project Manager: G. Herrmann

Sample Date/Time: 3/20/24
1335

Well #: RW-4

Well Diameter: 4" (inches)

Height of Water Column: — (feet)

Depth to Water: (feet btoc)

Sample Method: Grab HydraSleeve

Total Depth of Well: 30' (feet)

HS Set Point: 2 feet btoc

Groundwater Parameters:

pH	Temp (°F)	Conductivity (µS/cm)	ORP (mv)	D.O. (mg/L)	Turbidity (NTU)
7.24	23.5	744	129.8	2.11	—

Sample Description: 5 VOAS

Physical Observations: Clear

Analytical Method(s): 8260B, 504.1

Other notes (well condition, difficulties, corrective actions):

GROUNDWATER METER CALIBRATION SHEET

Project Name: Former Y Sampler: 1 Torres
 Project #: DB18.1157 Date: 3/26/24
 Project Manager: Gi Herman

pH	Temp (°C)	Comments
(4) 4.00	12.8	
(7) 7.05	13.0	
(10) 10.10	13.2	
SpCon (µs/cm)	Temp (°C)	Comments
(1413) 1413	13.3	
ORP (mv)	Temp (°C)	Comments
244.7	15.2	
Dissolved O ₂	Temp (°C)	Comments
(%)	13.9	
(mg/L) 8.86	13.9	
Pressure	Temp (°C)	Comments
(mmHg) 654	13.9	

 Comments:

GROUNDWATER METER CALIBRATION SHEET

Project Name: Former Y Sampler: 1 Tones
 Project #: DB18. 1157 Date: 3/27/24
 Project Manager: G Herman

<u>pH</u>	<u>Temp (°C)</u>	<u>Comments</u>
(4) 4.01	4.4	
(7) 7.0	3.9	
(10) 10.24	5.1	
<u>SpCon (µs/cm)</u>	<u>Temp (°C)</u>	<u>Comments</u>
(1413) 1413	4.7	
<u>ORP (mv)</u>	<u>Temp (°C)</u>	<u>Comments</u>
257.9	5.1	
<u>Dissolved O₂</u>	<u>Temp (°C)</u>	<u>Comments</u>
(%) 3.5	3.5	
(mg/L) 11.35	3.5	
<u>Pressure</u>	<u>Temp (°C)</u>	<u>Comments</u>
(mmHg) 680	3.5	

Comments:

GROUNDWATER METER CALIBRATION SHEET

Project Name: Former Y Sampler: 1 Times
 Project #: DB18.1157 Date: 03/28/24
 Project Manager: Grau Herman

pH	Temp (°C)	Comments
(4) 4.00	11.4	
(7) 7.07	11.0 11.0	
(10) 10.20	11.1	
SpCon (µs/cm)	Temp (°C)	Comments
(1413)	11.9	
ORP (mv)	Temp (°C)	Comments
248.3	12.5	
Dissolved O ₂	Temp (°C)	Comments
(%) 85.9	12.0	
(mg/L) 9.28	12.0	
Pressure	Temp (°C)	Comments
(mmHg) 647.5	11.1	

 Comments:

2/8/24

O+M

ANT/JF

8:40 Alex Nájiz and Jeremy Fisher on site.
40°F Sunny and windy

8:46 PID calibrated with 100 Isobutylene

1017 Finished ~~zero~~ data collection in compound including HVAL samples

1256 Finished well & O+M. Shut down all wells, troubleshooting water meter in MW-16

1446 Cleaned MW-16 meter and tested it. It is running.

1447
↳ RW-3 new analog meter start reading 7,386 gal

1501 New additional meter installed at RW-3

1620 Flow Meter (SN: 98360708) INSTALLED IN RW-4 VALVE BOX. Meter Reading = 290,382

1644 We checked 3, 4, 16 and 12, all on with valves open. System on.

2/8/24 DUCON CABLES

ANT/JF

RW-2 12.13.5"

RW-1 13.12.5"

RW-3 11.12.5"

BW-7R 10.13"

MW-12 12.15"

MW-11 13.12.5"

MW-13 3.12"

RW-3/4 11.10"

1645 Site locked and secure. ANT and JF off site.



2/8/24

2/19/24

O+M

ANT

- 1301 ANT on site. 67° Partly Cloudy.
No alarms. Pump FR off, remaining
GW pumps on. Begin data collection.
- 1317 Begin PID Calibration
Honeywell MiniRAE 3000
Zero; Span 100ppm ISO butylene
Reading: 100ppm
- 1450 Finish data collection @ command and
collection of water and air lab samples.
Closing site for well readings
- 1509 Samples for lab on ice
Begin collections @ wells. MW16 ARV
leaking
- 1519 Disassembled ARV @ MW16. Bacterial
slime present. Cleaned with DI+Soap
and wiped with paper towel. Reassembled
ARV and turned on well. No leak, meter
spinning.
- 1750 Water meter removed from RW2
- 1833 Water meter flushed and reinstalled
@ ZRW RW2. Will not test until
tomorrow
- 1837 Site locked and secure.
ANT offsite

2/19/24

ANT

2/20/24

Disinfection/O+M

ANT

- 809 ANT onsite. 47°, sunny and breezy.
- 853 RW2 started working, large slug of
bacteria through hose bib. Meter spun
correctly then stopped. Shutting down RW2
for now.
- 904 System shutdown completely
- 1117 Meter pulled from MW13, flushed, slug
was ejected (likely bacteria). Reinstalled
but not tested. Well cap was opened
~1/2 inch to fit funnel in added 33oz
of chlorine. Letting sit for 1hr, then
will test for residual.
PureOps onsite to diagnose and calibrate
effluent meter.
- 1159 PureOps offsite. Ultrasonic meter
verification and test showed 99.8%
accuracy. Meter reading 24.0gal,
test reading 24.1. See final report.
- 1243 Oil change in SVE blower: 2pts
new AEOU synthetic added.
Grease added to 3 ports.
- 1658 Recap: 600z of Chlorine added to
MW16, let MW13 and MW16 sit
for approx 3 hours. Test MW13,
meter spinning, slowly.

2/20/24 Disinfection/O&M ANT

1658 Recap Cont. Test MW 16, spinning.
Open MW-7R, leaking ARV. Replace
with ARV from MW13. MW13 off.
Upon replacing removing ARV, MW13
released slug and brown water. Let
run clear. Let MW13. Installed
ARV at 7R, no leak. Throttled 7R
to maintain drawdown. Test RW-2.
After forward and reverse flushing,
began spinning at ~0.5 gpm. All
well pumps turned on, except MW13.
Flame ignition error on oxidizer.
Tried resetting x3. Gas pressure
reading 0 psi. No low pressure alarm,
only flame ignition. Informed GHT
who will call NM Gas. Oxidizer
left off. Wells on. Site locked
and secure. ANT off site.

ANT
2/20/24

2/21/24 Wellhead Readings ANT

659 ANT onsite. Clear 39°F.
Begin collecting data @ HMI
752 NM Gas on site - Pat
Gentle
756 Confirmed 6.3 pounds of pressure
being delivered from meter
815 Between 3-5 pounds of gas pressure
showing upstream of oxidizer
841 NM Gas off site
918 Talked to John Streg. Honeywell Flame
Safety module may be faulty. Removing
and documenting serial number/condition
and transporting to DBS&A officer
927 Removed Honeywell Flame Safety Module.
Disconnect left in off position
943 Wellhead measurements done.
Oxidizer left off.
Site locked and secure.

ANT 2/21/24

3/5/24 OPM IT

1330 onsite, Weather is
65°F mostly Sunny. Some
breeze,
VFD at MW-11 7122 Fault
VFD at MW-10 2340 Fault

1335 Reset Fault.
well 11 and well 10

1358 Started. SVE System
System ran for at least
five minutes then shut
off with some alarm.
Spoke w/ John Gray from
Intelligence, he will be
sending a Brand New
Frame control relay.

1409 MW-11 continues to shut
down w/ 7122 Fault.

1458 Removed Relay to ship
back to Intelligence.
SVE system will be down
until then.

1532 taking influent Sample GW

1558 taking Effluent Sample GW

1803

VT OPM 3/5/24

1803 RW-2 Flowmeter
Running Backwards.
Shut off gate valve
and turned Pump off.
No water coming out of
Faucet when Gate Valve
was closed.

1833 Adjusted Flow at
RW-1, will check
water level in A-A.
All gates are locked
It off site

IT

3/5/24

3/16/24

OEM

IT

0740

IT on site

will start at well
mw-10; set up cones at
mw-12. Weather is
35°F sunny mostly
clear.

0759

mw-13 not running.

0830

Completed GW measurements

0835

⊙ Compound, reset mw-11
it ran with Hz at 8.8
After a few minutes the
Hz dropped to 7.48 then
would fluctuate around
7.9 - 7.3; then it
jumped to 12.5 Hz.
With Grace advice I
shut off mw-11.

0955

All containers locked
Front gate locked.

IT off site

samples are on ice

3/16/24

IT

3/19/24

Repairs

ANT

1158

Alex NT on site. 54° and sunny.
14 mph winds to NE.

Oxidizer off. Begin replacement of
flame safety module.

1230

Talked to G.H. who confirmed
the modules are not on site.
Going to well ARV replacement.
Oxidizer left off.

1258

New ARV installed at MW-13. Restarted
pump. Forward and reverse flushed
meter with valve adjustments. MW-13
pulling 0.5 gpm

1333

Checked MW-11. VFD still showing
overload error. Left off after
talking to G. Herrmann.
Also confirmed with G.H. that RW-2
is spinning backwards. Also left
off.

1340

Site locked and secure. ANT off site.

ANT

3/19/24

GMH Former Y O+M

3/20/24

- 8:10 DBSA onsite to exchange Flame safety controller
- 8:35 New controller installed. Restoring power.
- 8:40 call J. Strey. Still getting error. Needed to swap out purge card.
- 8:45 Power Restored. Restarting System.
- 8:50 Flame did not ignite. Alarm + System Shutdown.
- 8:55 Phone call w/ AN.T. Trying reset on controller. Restarting system. Shut-down.
- 9:00 Phone call w/ J. Strey. Plan to check all connections are tight + send video of start up sequence to J. Strey + Honeywell
- 9:45 verified all connections are tight TOOK videos and photos. uploading to send to J. Strey.
- 10:00 Phone call w/ J. Strey. He's sending videos and images to Honeywell contact. Hoping to hear back while I'm onsite / in Clovis.
- 10:15 Cleaning up + repackaging old programmers. Locking up.
- 10:45 DBSA offsite. Site secured.

~~David Owen~~

3/26/24 O&M-GWM IT/RV

1300 IT onsite, Roy was
already on site taking
Readings at RW-3
calibrating Y&I

PH Actual Temp °C

4.00 4.00 12.8

7.05 7.05 13.0

10.10 10.15 13.2

SFC

1413 1413 13.2

ORP

244.7 244.6 15.2

DO

654 mmHg 8.86 mg/L 13.9

1333 RW-4

PH - 7.24

SFC - 744

Temp - 23.5°C

ORP - 129.8

DO - 2.11

Sample time 1335

IT/RV O&M-GWM 3/26/24

1356

BW-5

DTW - 332.03

DTP - 332.01

Total product - .02

1409

Deployed Hydralve
2.9 x 12 750 mL

1410

RW-3

PH - 7.52

Temp - 27.5°C

SFC - 690

ORP - 127.2

DO - 2.66

Sample time 1335^(IT) 1410

1436

BW-7R

PH - 7.41

Temp - 24.9°C

SFC - 872

ORP - 94.9

DO - 90.0%

1440

Sample time 1440

3/26/24 system Pumping IT/RV/

1455

MW-12

PH - 7.38

Temp - 23.3

SPC - 687

ORP - 86.9

DO - 5.92

1500

Sample time 1500

1512

MW-16

PH - 7.68

Temp - 23.5

SPC - 605

ORP - 112.6

DO - 6.46

1517

Sample time 1517

1545

MW-13

PH - 7.41

Temp - 22.5

SPC - 779

ORP - 64.7

DO - 7.55

1552

Sample time

IT/RV

Pumping

3/26/24

1606

MW-14

DTW - 321.78

DTP - _____

1616

MW-15

DTW - 326.04

DTP - _____

1631

MW-17

DTW - 332.43

DTP - _____

~~1646~~

1646

~~MW-10~~ BW-10

DTW - 329.18

DTP - _____

1659

~~MW-9~~ BW-9

DTW - 331.47

DTP - _____

1712

RW-2

Pump not running

No sample at this

time

3/20/24 System Pumping IT/RV

1730

* at 0938
INFluent Sample taken
@ 1000
took Effluent treated
Sample

IT / Roy off site
all samples are on ice
Compound Containers
locked
Compound Gates are
locked

IT

3/20/24

IT/RV System Pumping 3/27/24

0800

IT/RV onsite

32°F Slight Breeze
Clear Skies Calibrated
YSI

PH	Actual	Temp °C
4.01	4.01	4.4
7.00	7.00	3.9
10.26	10.26	5.1
SFC		
1413	1413	4.7
ORP		
258.6	257.9	5.1
DO		
680 mmHg	680 mmHg	3.5
	11.35 m/s ²	

822

BW-4

DTW - 332.47

DTP - _____

849

BW-6

DTW - 332.97

DTP - _____

3/27/24 System Running IT/RV

849
904

~~BW~~ BW-7
DTW - 331.26
DTP - _____

0930

* RW-1
Sample time 8:30
Clay onsite at 8:45 *

1015 Called Grace and Spoke
over what wells needed
to be pulled out. Grace
stated that pump 11, 2
3, 4, 13, 16 would be
the ones to be pulled out.
1, 3, 4 were the most
important.

1030 TOOK DTA EFF
Sample

3/27/24 System Running IT/RV/CB

1035 Clay is setting up
at Well MW-11

1214 RW-11 out of hole
transducer is 3' from
pump intake. Transducer
is 357 Pgs
Static water level is
328.88 top of casing

1348 Prepping to Jet MW-11

1430 Attempted to test MW-11
pump. submerged it in
35 gallons of water.
turned pump on. Pump
would run and shut off
then run and shut off.
A thick black fluid
came out of pump.

1730 Clay and Ray offsite
headed to hardware store
to purchase needed fittings.
to be able to use fire hydrant

3/27/24

IT

I stayed behind to
de-fungle well pump
& transducer cables.
Clay and Rey back on
site, pump was hung
in well, site cleaned
up, All gates and
containers locked
crew off site

3/27/24

IT

IT/RV/CB/BC

3/28/24

0745 IT/RV/CB on site
weather is 33°F
Clear skies. Clay
Clay fills his water
container w/ hydrant
water. Hydrant used was
on the corner of Prince
& York St.

822 Setting up at MW-11
824 Brandon on site
830 Turned off all well
pumps

STATIC READINGS

0842 MW-14
DTW - 321.86
Deployed Hydrosleeve
2.9" x 12" 750ml

0903 MW-15
DTW - 326.13
Deployed Hydrosleeve
2.9" x 12" 750ml

3/28/24 System Shut off IT/BC/RU
CB

0921

MW-17

DTW - 332.49

Deployed Hydrasleeve
2.9 x 12 750 ml

0951

Ⓢ MW BW-7

DTW - 331.22

Deployed Hydrasleeve
2.9 x 12 750 ml

1004

BW-4

DTW - 332.36

Deployed Hydrasleeve
2.9 x 12 750 ml

1026

BW-8

DTW - 331.02 TOC

332.34 B615

Deployed Hydrasleeve
2.9 x 12 750 ml

1044

BC/CB Are Barling
out MW-11. Barber
was lost in hole. Begun
Fishing For Barber
Piling started at 1030

IT/BC/RU/CB System off 3/28/24

1200 BC/IT took MW-11

pump apart and cleaned
pump had the thick
Black Biomass plugging
Screens and inside pump.

Called Grace to get the
ok if Pump works to
Re use it. Grace gave the
ok.

1339

Pump test failed, will
not be reusing pump

* 100 gallons of water
& 2 gallons mixed of
30% Vinegar. were used.*
This will be for all wells
that are jetted.

1430

BW-10

DTW - 329.07

1447

PW-9

DTW - 331.36

1455

BW-6

DTW - 322.71

3/28/24 System off IT/BC/CB/RV

1700 RV/BC/CB/IT Bailed out
100 gallons @ MW-11

1730 Setting up at MW-13
Begin well pump
Removal

1830 completed, will set
tomorrow.

Crew off site
site cleaned
all gates and
containers locked

IT

3/28/24

IT/BC/RV CB Sampling System off 3/29/24

0800 Crew onsite, set up
at MW-13. Begin Jetting
with 100 gallons of
water mixed with
Vinegar.

Before work performed
took water level

MW-13

DTW - 329.48 TOC

330.47 BGS

0900 Began Hydrastave
extraction & sampling
all data is on ground
water sampling sheets

1131 Completed Sampling
All samples are on 10
filled out paper work
& CDC's

1200 IT off site to deliver
samples. Crew stayed
and completed MW-13

* crew stayed till 1600 *

3/29/24

IT

4/1/24 Pump Removal IT/BC/KB/
and Jetty well RV

1330 Crew onsite, preparing
to remove RW-4. Turned
on pumps 13, 7R, 16, & 1

1430 Well RW-4 out of hole
Setting up Jetty tools
Static water level at
RW-4
DTW-331.30 TOC

1500 Tools for Jetty did not
fit well. Jetty tools
are a larger diameter
Called Grace to let her
know the situation.
Clay said he had a 2"
diameter Jetty tool at
home. Clay will be heading
home to pick up tool
and come back in AM.

1644 Clay off site
Begin to prepare for
Clarifier cleaning

1900 Clarifier cleaning complete
oil water Separator fluid
drained out

ZT/BC/RV

4/1/24

Both waste water Storage
tanks are full. Need to
dispose of water. Called
Grace and let her know,
she said to please call
the WWTP in AM and
see if they would
accept our waste water.

1900 IT/BC/RV off site

IT

4/2/24 Pump removed IT/BC/CB
Setting well Rv

730 Onsite weather
is cloudy, windy 39°F
Called Cloris WWTP
and spoke to a Mark.
I explained what the
water we wanted
disposed of. Mark said
they would not be able
to accept our waste
water. Called Grace and
let her know. She said
to transfer the clearer
water into clarifier then
run pump to send to
sewer system. (Water that
has gone through clarifier)
The other tank that had
mix of water was used
transferred into oil water
separator and system was
turned on.

1145 Completed Clarifier Clean

1230 Began cleaning oil water
separator.

1350 Completed cleaning

IT/BC/RV
CB

Well Setting

1400 Deployed Hydrasleeve
at MW-11 took water
level before deployment (IT)

MW-11

DTW-

Deployed Hydrasleeve at
340' P61S

1630 pump at MW RW-4
installed setting complete.
turned on pump to check
for leaks. Small leaks
found at a Repair that
Brandon had done.
Repair not working. Brandon
had to Re-Repair. Not
yet fixed. needs more parts
Brandon and Rey stayed
on site until 1930

1700 Drove to RW-2 and
performed diagnosis with
Grace on the phone.
opened gate valve
water flowing into well
Flow meter runs backwards

4/2/24

IT/BC/CB
RW

Closed gate valve. opened sample port. Gauge turned on Pump waited about 5 minutes no flow detected. Gauge indicated that water level would drop a foot. After ten minutes still no flow. Air could be heard escaping from well cover after 1" PVC Plug was removed.

Conclusion, well is full of Bio Mass that pump cant over come. Also Check valve stuck open allowing Back Flow.

Will schedule to Remove on a Sunday when eye glass biomass is closed.

1830 IT/CB off site Ray & Brandon will stay behind and complete repairs.

IT/BC/RW/CB well Jetting 4/3/24

730

Crew on site, set up at RW-3 weather is clear skies 39°F

1130

Pump removal and Jetting complete. Crew is tripping pump and well pipe back into place.

110 Gallons of water mixed with 2 gallons of 20% Vinegar were used to Jet well.

1230

RW-3 Re installed. turned on RW-3, waiting for pump to begin flowing

1330

Added Fresh water to oil water separator. turned on system turned on wells BTR

MW13, MW12, MW16, RW3

System set alarm timer for transfer pump, cleared cleaned site.

1505

@ MW-11

pH
SpC

Temp
ORP

DO

4/3/24 Pump removal
& Clean IT/BC/CB

MW-11 not sampled
Found water coming into
well from pitless adapter

1525 Checked operation of
RW-3 Found ARV pouring
out water. Closed gate valve
before I came to RW-3
I closed gate valve at MW-11

1545 Checked well RW-4 Brandon
had left Flow meter
disconnected due to repairs.
Found water flowing out
of flowmeter closed
gate valve.

1600 Called Grace and let
her know what was
happening. She said to close
gate valves as well.

1615 Diagnosed why system was
shutting down. Site glass at
clarifier overfilled. Manually
drained clarifier a few times.
Found when system was
reset pump transfer pump
worked properly. The 1st

IT/BC Pump removal
& Clean 4/3/24

time, then would not
after the second time.

Transfer pump would
turn on then run for
a few seconds only bringing
down water 2" to 3".

Shut off for 1 to 2 minutes
pump for a few seconds
then shut off. Clarifier
water would then pass the
1st floats then continue
to the highest highest floats
and shut off system.

Found air in pressure
sensor line. Bled Air.

System ran properly
after that.

1800 All gates & containers locked
IT/BC off site

IT

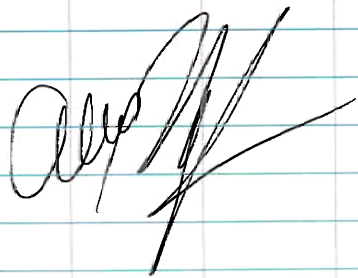
4/17/24

water sampling
and troubleshooting

ANT

- 1122 ANT onsite. weather is 76°f and sunny
with 15mph wind.
- 1133 Returned EPCOR water meter.
- 1147 Begin oxidizer troubleshooting.
- 1423 Collected oscilloscope data and
talked to G. Herrmann.
- 1501 Collected water samples.
- 1531 RWI throttled from 0.78 gpm to
0.32 gpm. Called G. Herrmann to
confirm. Site locked and secure.
ANT offsite

4-17-24



Appendix D

Laboratory Reports

February 29, 2024

Grace Herrmann

Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL: (505) 822-9400
FAX: (505) 822-8877

RE: Former Y

OrderNo.: 2402535

Dear Grace Herrmann:

Eurofins Environment Testing South Central, LLC received 5 sample(s) on 2/9/2024 for the analyses presented in the following report.

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

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

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

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402535

Date Reported: 2/29/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated EFF

Project: Former Y

Collection Date: 2/8/2024 9:50:00 AM

Lab ID: 2402535-001

Matrix: GROUNDWA

Received Date: 2/9/2024 4:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	85	10		mg/L	20	2/9/2024 8:20:41 PM	R103013
Nitrogen, Nitrate (As N)	1.7	0.10		mg/L	1	2/9/2024 8:07:50 PM	R103013
Sulfate	44	10		mg/L	20	2/9/2024 8:20:41 PM	R103013
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KCB
Total Dissolved Solids	508	100	*D	mg/L	1	2/15/2024 10:54:00 AM	80421
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	0.73	0.047		µg/L	5	2/13/2024 2:45:49 PM	80382
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: JKU
Diesel Range Organics (DRO)	1.4	1.0	H	mg/L	1	2/24/2024 12:06:52 AM	80585
Motor Oil Range Organics (MRO)	ND	5.0	H	mg/L	1	2/24/2024 12:06:52 AM	80585
Surr: DNOP	127	45.5-159	H	%Rec	1	2/24/2024 12:06:52 AM	80585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	0.097	0.050		mg/L	1	2/14/2024 8:12:00 PM	R103113
Surr: BFB	115	15-270		%Rec	1	2/14/2024 8:12:00 PM	R103113
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	2.1	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Toluene	1.0	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Ethylbenzene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,2-Dichloroethane (EDC)	4.1	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Naphthalene	ND	2.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1-Methylnaphthalene	ND	4.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
2-Methylnaphthalene	ND	4.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Acetone	23	10		µg/L	1	2/15/2024 6:08:00 PM	R103131
Bromobenzene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Bromodichloromethane	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Bromoform	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Bromomethane	ND	3.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
2-Butanone	11	10		µg/L	1	2/15/2024 6:08:00 PM	R103131
Carbon disulfide	ND	10		µg/L	1	2/15/2024 6:08:00 PM	R103131
Carbon Tetrachloride	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Chlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Chloroethane	ND	2.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Chloroform	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402535

Date Reported: 2/29/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated EFF

Project: Former Y

Collection Date: 2/8/2024 9:50:00 AM

Lab ID: 2402535-001

Matrix: GROUNDWA

Received Date: 2/9/2024 4:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Chloromethane	ND	3.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
2-Chlorotoluene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
4-Chlorotoluene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
cis-1,2-DCE	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Dibromochloromethane	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Dibromomethane	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,1-Dichloroethane	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,1-Dichloroethene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,2-Dichloropropane	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,3-Dichloropropane	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
2,2-Dichloropropane	ND	2.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,1-Dichloropropene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Hexachlorobutadiene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
2-Hexanone	17	10		µg/L	1	2/15/2024 6:08:00 PM	R103131
Isopropylbenzene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
4-Isopropyltoluene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
4-Methyl-2-pentanone	ND	10		µg/L	1	2/15/2024 6:08:00 PM	R103131
Methylene Chloride	ND	3.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
n-Butylbenzene	ND	3.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
n-Propylbenzene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
sec-Butylbenzene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Styrene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
tert-Butylbenzene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
trans-1,2-DCE	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402535

Date Reported: 2/29/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated EFF

Project: Former Y

Collection Date: 2/8/2024 9:50:00 AM

Lab ID: 2402535-001

Matrix: GROUNDWA

Received Date: 2/9/2024 4:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Trichlorofluoromethane	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Vinyl chloride	ND	1.0		µg/L	1	2/15/2024 6:08:00 PM	R103131
Xylenes, Total	ND	1.5		µg/L	1	2/15/2024 6:08:00 PM	R103131
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	2/15/2024 6:08:00 PM	R103131
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/15/2024 6:08:00 PM	R103131
Surr: Dibromofluoromethane	106	70-130		%Rec	1	2/15/2024 6:08:00 PM	R103131
Surr: Toluene-d8	96.1	70-130		%Rec	1	2/15/2024 6:08:00 PM	R103131

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402535

Date Reported: 2/29/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y

Collection Date: 2/8/2024 9:35:00 AM

Lab ID: 2402535-002

Matrix: GROUNDWA

Received Date: 2/9/2024 4:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	84	10		mg/L	20	2/9/2024 8:46:25 PM	R103013
Nitrogen, Nitrate (As N)	1.8	0.10		mg/L	1	2/9/2024 8:33:34 PM	R103013
Sulfate	44	10		mg/L	20	2/9/2024 8:46:25 PM	R103013
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KCB
Total Dissolved Solids	492	100	D	mg/L	1	2/15/2024 10:54:00 AM	80421
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	9.1	0.48		µg/L	50	2/13/2024 3:02:50 PM	80382
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: JKU
Diesel Range Organics (DRO)	1.6	1.0	H	mg/L	1	2/24/2024 12:30:20 AM	80585
Motor Oil Range Organics (MRO)	ND	5.0	H	mg/L	1	2/24/2024 12:30:20 AM	80585
Surr: DNOP	132	45.5-159	H	%Rec	1	2/24/2024 12:30:20 AM	80585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	4.2	1.0		mg/L	20	2/14/2024 8:34:00 PM	R103113
Surr: BFB	115	15-270		%Rec	20	2/14/2024 8:34:00 PM	R103113
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	820	10		µg/L	10	2/16/2024 12:36:00 PM	R103136
Toluene	400	10		µg/L	10	2/16/2024 12:36:00 PM	R103136
Ethylbenzene	19	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Methyl tert-butyl ether (MTBE)	1.3	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,2,4-Trimethylbenzene	26	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,3,5-Trimethylbenzene	20	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,2-Dichloroethane (EDC)	130	10		µg/L	10	2/16/2024 12:36:00 PM	R103136
1,2-Dibromoethane (EDB)	14	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Naphthalene	17	2.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1-Methylnaphthalene	4.6	4.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
2-Methylnaphthalene	5.7	4.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Acetone	47	10		µg/L	1	2/15/2024 6:33:00 PM	R103131
Bromobenzene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Bromodichloromethane	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Bromoform	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Bromomethane	ND	3.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
2-Butanone	30	10		µg/L	1	2/15/2024 6:33:00 PM	R103131
Carbon disulfide	ND	10		µg/L	1	2/15/2024 6:33:00 PM	R103131
Carbon Tetrachloride	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Chlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Chloroethane	ND	2.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Chloroform	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402535

Date Reported: 2/29/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y

Collection Date: 2/8/2024 9:35:00 AM

Lab ID: 2402535-002

Matrix: GROUNDWA

Received Date: 2/9/2024 4:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Chloromethane	ND	3.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
2-Chlorotoluene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
4-Chlorotoluene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
cis-1,2-DCE	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Dibromochloromethane	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Dibromomethane	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,1-Dichloroethane	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,1-Dichloroethene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,2-Dichloropropane	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,3-Dichloropropane	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
2,2-Dichloropropane	ND	2.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,1-Dichloropropene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Hexachlorobutadiene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
2-Hexanone	34	10		µg/L	1	2/15/2024 6:33:00 PM	R103131
Isopropylbenzene	1.8	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
4-Isopropyltoluene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
4-Methyl-2-pentanone	16	10		µg/L	1	2/15/2024 6:33:00 PM	R103131
Methylene Chloride	ND	3.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
n-Butylbenzene	ND	3.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
n-Propylbenzene	1.6	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
sec-Butylbenzene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Styrene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
tert-Butylbenzene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
trans-1,2-DCE	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402535

Date Reported: 2/29/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y

Collection Date: 2/8/2024 9:35:00 AM

Lab ID: 2402535-002

Matrix: GROUNDWA

Received Date: 2/9/2024 4:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Trichlorofluoromethane	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Vinyl chloride	ND	1.0		µg/L	1	2/15/2024 6:33:00 PM	R103131
Xylenes, Total	260	1.5		µg/L	1	2/15/2024 6:33:00 PM	R103131
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	2/15/2024 6:33:00 PM	R103131
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	2/15/2024 6:33:00 PM	R103131
Surr: Dibromofluoromethane	99.5	70-130		%Rec	1	2/15/2024 6:33:00 PM	R103131
Surr: Toluene-d8	96.0	70-130		%Rec	1	2/15/2024 6:33:00 PM	R103131

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402535

Date Reported: 2/29/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y

Collection Date:

Lab ID: 2402535-003

Matrix: TRIP BLANK

Received Date: 2/9/2024 4:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: SB
1,2-Dibromoethane	ND	0.0096		µg/L	1	2/12/2024 7:56:13 PM	80382
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Toluene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Ethylbenzene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Naphthalene	ND	2.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1-Methylnaphthalene	ND	4.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
2-Methylnaphthalene	ND	4.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Acetone	ND	10		µg/L	1	2/15/2024 6:58:00 PM	R103131
Bromobenzene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Bromodichloromethane	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Bromoform	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Bromomethane	ND	3.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
2-Butanone	ND	10		µg/L	1	2/15/2024 6:58:00 PM	R103131
Carbon disulfide	ND	10		µg/L	1	2/15/2024 6:58:00 PM	R103131
Carbon Tetrachloride	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Chlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Chloroethane	ND	2.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Chloroform	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Chloromethane	ND	3.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
2-Chlorotoluene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
4-Chlorotoluene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
cis-1,2-DCE	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Dibromochloromethane	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Dibromomethane	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,1-Dichloroethane	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,1-Dichloroethene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,2-Dichloropropane	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402535

Date Reported: 2/29/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: Trip Blank

Project: Former Y

Collection Date:

Lab ID: 2402535-003

Matrix: TRIP BLANK

Received Date: 2/9/2024 4:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
1,3-Dichloropropane	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
2,2-Dichloropropane	ND	2.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,1-Dichloropropene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Hexachlorobutadiene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
2-Hexanone	ND	10		µg/L	1	2/15/2024 6:58:00 PM	R103131
Isopropylbenzene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
4-Isopropyltoluene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
4-Methyl-2-pentanone	ND	10		µg/L	1	2/15/2024 6:58:00 PM	R103131
Methylene Chloride	ND	3.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
n-Butylbenzene	ND	3.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
n-Propylbenzene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
sec-Butylbenzene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Styrene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
tert-Butylbenzene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
trans-1,2-DCE	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Trichlorofluoromethane	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Vinyl chloride	ND	1.0		µg/L	1	2/15/2024 6:58:00 PM	R103131
Xylenes, Total	ND	1.5		µg/L	1	2/15/2024 6:58:00 PM	R103131
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	2/15/2024 6:58:00 PM	R103131
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	2/15/2024 6:58:00 PM	R103131
Surr: Dibromofluoromethane	101	70-130		%Rec	1	2/15/2024 6:58:00 PM	R103131
Surr: Toluene-d8	96.8	70-130		%Rec	1	2/15/2024 6:58:00 PM	R103131

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402535

Date Reported: 2/29/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Comb INF

Project: Former Y

Collection Date: 2/8/2024 10:07:00 AM

Lab ID: 2402535-004

Matrix: AIR

Received Date: 2/9/2024 4:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	14000	500		µg/L	50	2/15/2024 3:22:44 PM	GW1031
Surr: BFB	118	15-412		%Rec	50	2/15/2024 3:22:44 PM	GW1031
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	50	2/15/2024 3:22:44 PM	BW1031
Benzene	150	10		µg/L	50	2/15/2024 3:22:44 PM	BW1031
Toluene	630	10		µg/L	50	2/15/2024 3:22:44 PM	BW1031
Ethylbenzene	56	10		µg/L	50	2/15/2024 3:22:44 PM	BW1031
Xylenes, Total	280	20		µg/L	50	2/15/2024 3:22:44 PM	BW1031
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	50	2/15/2024 3:22:44 PM	BW1031

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402535

Date Reported: 2/29/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY OX EFF

Project: Former Y

Collection Date: 2/8/2024 10:09:00 AM

Lab ID: 2402535-005

Matrix: AIR

Received Date: 2/9/2024 4:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	110	5.0		µg/L	1	2/15/2024 3:47:12 PM	GW1031
Surr: BFB	153	15-412		%Rec	1	2/15/2024 3:47:12 PM	GW1031
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	2/15/2024 3:47:12 PM	BW1031;
Benzene	3.7	0.10		µg/L	1	2/15/2024 3:47:12 PM	BW1031;
Toluene	9.4	0.20		µg/L	2	2/16/2024 1:22:04 PM	BA10313
Ethylbenzene	2.0	0.10		µg/L	1	2/15/2024 3:47:12 PM	BW1031;
Xylenes, Total	12	0.20		µg/L	1	2/15/2024 3:47:12 PM	BW1031;
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	2/15/2024 3:47:12 PM	BW1031;

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402535

29-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R103013	RunNo: 103013								
Prep Date:	Analysis Date: 2/9/2024	SeqNo: 3807837			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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

Sample ID: LCS	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R103013	RunNo: 103013								
Prep Date:	Analysis Date: 2/9/2024	SeqNo: 3807838			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chloride	4.7	0.50	5.000	0	94.4	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	98.7	90	110			
Sulfate	9.5	0.50	10.00	0	95.0	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402535

29-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: MB-80382	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 80382	RunNo: 103029								
Prep Date: 2/12/2024	Analysis Date: 2/12/2024	SeqNo: 3809604	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-80382	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 80382	RunNo: 103029								
Prep Date: 2/12/2024	Analysis Date: 2/12/2024	SeqNo: 3809605	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.089	0.010	0.1000	0	89.0	70	130			

Sample ID: LCSD-80382	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 80382	RunNo: 103029								
Prep Date: 2/12/2024	Analysis Date: 2/12/2024	SeqNo: 3809606	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.091	0.010	0.1000	0	90.5	70	130	1.67	20	

Sample ID: MB-80382	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 80382	RunNo: 103029								
Prep Date: 2/12/2024	Analysis Date: 2/12/2024	SeqNo: 3809616	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-80382	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 80382	RunNo: 103029								
Prep Date: 2/12/2024	Analysis Date: 2/12/2024	SeqNo: 3809617	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.093	0.010	0.1000	0	92.5	70	130			

Sample ID: LCSD-80382	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 80382	RunNo: 103029								
Prep Date: 2/12/2024	Analysis Date: 2/12/2024	SeqNo: 3809618	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.092	0.010	0.1000	0	92.4	70	130	0.130	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402535

29-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: MB-80585	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 80585	RunNo: 103274								
Prep Date: 2/22/2024	Analysis Date: 2/23/2024	SeqNo: 3821201	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.62		0.5000		123	45.5	159			

Sample ID: LCS-80585	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: LCSW	Batch ID: 80585	RunNo: 103274								
Prep Date: 2/22/2024	Analysis Date: 2/23/2024	SeqNo: 3821202	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	3.2	1.0	2.500	0	126	57	147			
Surr: DNOP	0.31		0.2500		123	45.5	159			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402535

29-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: R103113		RunNo: 103113							
Prep Date:	Analysis Date: 2/14/2024		SeqNo: 3812387		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.41	0.050	0.5000	0	82.2	70	130			
Surr: BFB	46		20.00		231	15	270			

Sample ID: 2.5ug gro lcsd	SampType: LCSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS02	Batch ID: R103113		RunNo: 103113							
Prep Date:	Analysis Date: 2/14/2024		SeqNo: 3812388		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.41	0.050	0.5000	0	82.7	70	130	0.534	20	
Surr: BFB	46		20.00		229	15	270	0	0	

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: R103113		RunNo: 103113							
Prep Date:	Analysis Date: 2/14/2024		SeqNo: 3812389		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	23		20.00		117	15	270			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: GW103126		RunNo: 103126							
Prep Date:	Analysis Date: 2/15/2024		SeqNo: 3812769		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.49	0.050	0.5000	0	98.6	70	130			
Surr: BFB	41		20.00		204	15	270			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: GW103126		RunNo: 103126							
Prep Date:	Analysis Date: 2/15/2024		SeqNo: 3812770		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		96.9	15	270			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402535

29-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: R103131	RunNo: 103131								
Prep Date:	Analysis Date: 2/15/2024	SeqNo: 3813403			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.0	70	130			
Toluene	20	1.0	20.00	0	98.7	70	130			
Chlorobenzene	20	1.0	20.00	0	101	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	90.1	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	91.3	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.5	70	130			
Surr: Toluene-d8	9.5		10.00		95.3	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R103131	RunNo: 103131								
Prep Date:	Analysis Date: 2/15/2024	SeqNo: 3813404			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402535

29-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R103131		RunNo: 103131							
Prep Date:	Analysis Date: 2/15/2024		SeqNo: 3813404		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402535

29-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R103131		RunNo: 103131							
Prep Date:	Analysis Date: 2/15/2024		SeqNo: 3813404		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		108	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.9	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.4		10.00		93.5	70	130			

Sample ID: 100ng lcs	SampType: LCS		TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch ID: R103136		RunNo: 103136							
Prep Date:	Analysis Date: 2/16/2024		SeqNo: 3815233		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.8	70	130			
Toluene	20	1.0	20.00	0	97.5	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.6		10.00		95.9	70	130			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R103136		RunNo: 103136							
Prep Date:	Analysis Date: 2/16/2024		SeqNo: 3815234		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.4		10.00		93.5	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402535

29-Feb-24

Client: Daniel B. Stephens & Assoc.

Project: Former Y

Sample ID: MB-80421	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 80421	RunNo: 103103								
Prep Date: 2/13/2024	Analysis Date: 2/15/2024	SeqNo: 3812042	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: LCS-80421	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 80421	RunNo: 103103								
Prep Date: 2/13/2024	Analysis Date: 2/15/2024	SeqNo: 3812043	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	996	50.0	1000	0	99.6	80	120			

Qualifiers:

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

Sample Log-In Check List

Client Name: **Daniel B. Stephens &** Work Order Number: **2402535** RcptNo: **1**
 Received By: *Nick Lowman* **2/9/2024 4:05:00 PM** *ML*
 Completed By: **Cheyenne Cason** **2/9/2024 4:15:14 PM** *CC*
 Reviewed By: *JL 2-9-24*

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: 2

(2 or >12 unless noted)

Adjusted? NO

Checked by: JL 2/9/24

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good	Not Present	Yogi		

Chain-of-Custody Record

Client: DBS0A

Mailing Address: 6020 ACADEMY NE SUITE 100
ALBUQUERQUE, NM 87109

Phone #: 505-822-9400

email or Fax#: ghermann@gso-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, 1157.00 0M224 2422

Project Manager: G MCE HERMANN

Sampler: J. Fritzel

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 0.4 - 0.1 = 0.3 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
<u>2/8/24</u>	<u>0950</u>	<u>GW</u>	<u>FY Treated EFF</u>	<u>10-VARIOUS</u>	<u>VARIOUS</u>	<u>2402535</u>
	<u>0935</u>	<u>↓</u>	<u>FY RAW</u>	<u>↓</u>	<u>↓</u>	<u>002</u>
<u>2/8/24</u>	<u>-</u>		<u>TRIP BLANK</u>	<u>3-VOA</u>	<u>2-HgCl₂</u> <u>1-SUTH</u>	<u>003</u>
<u>2/8/24</u>	<u>1007</u>	<u>AIR</u>	<u>TEX FY COMB IM-</u>	<u>TEOLAR BAG</u>	<u>-</u>	<u>004</u>
	<u>1009</u>	<u>↓</u>	<u>FY Ox EFF</u>	<u>↓</u>	<u>↓</u>	<u>005</u>

[Handwritten signature and date 2/8/24]

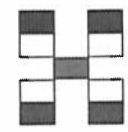
Date: 2/9/24 Time: 1605 Relinquished by: [Signature]

Received by: [Signature] Via: CDO Date: 2/9/24 Time: 1605

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015 (GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Sulfate/Chloride EPA 300.0	TDS SM2540C	Ammonia (as N) EPA 300.0	VOCs EPA 8021B
	<input checked="" type="checkbox"/>												
	<input checked="" type="checkbox"/>												
	<input checked="" type="checkbox"/>												
	<input checked="" type="checkbox"/>												

Remarks:



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

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.

March 06, 2024

Grace Herrmann

Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109
TEL: (505) 822-9400
FAX: (505) 822-8877

RE: Former Y Station State Lead Site

OrderNo.: 2402A38

Dear Grace Herrmann:

Eurofins Environment Testing South Central, LLC received 5 sample(s) on 2/21/2024 for the analyses presented in the following report.

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

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

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

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402A38

Date Reported: 3/6/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated EFF

Project: Former Y Station State Lead Site

Collection Date: 2/19/2024 2:35:00 PM

Lab ID: 2402A38-001

Matrix: AQUEOUS

Received Date: 2/21/2024 1:43:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: RBC
Chloride	79	2.5		mg/L	5	2/23/2024 10:42:48 PM	R103302
Sulfate	35	2.5		mg/L	5	2/26/2024 3:47:53 PM	R103340
Nitrate+Nitrite as N	ND	1.0		mg/L	5	2/24/2024 1:19:23 AM	R103302
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KCB
Total Dissolved Solids	424	100	D	mg/L	1	2/27/2024 3:49:00 PM	80623
EPA METHOD 8011/504.1: EDB							Analyst: DGH
1,2-Dibromoethane	0.40	0.048		µg/L	5	2/29/2024 4:22:12 PM	80720
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: JKU
Diesel Range Organics (DRO)	1.8	1.0		mg/L	1	2/24/2024 3:13:51 AM	80585
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	2/24/2024 3:13:51 AM	80585
Surr: DNOP	136	45.5-159		%Rec	1	2/24/2024 3:13:51 AM	80585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	0.098	0.050		mg/L	1	2/23/2024 8:40:03 PM	GA1032E
Surr: BFB	100	15-270		%Rec	1	2/23/2024 8:40:03 PM	GA1032E
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	1.1	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Toluene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Ethylbenzene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,2-Dichloroethane (EDC)	1.7	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Naphthalene	2.9	2.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1-Methylnaphthalene	ND	4.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
2-Methylnaphthalene	ND	4.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Acetone	98	10		µg/L	1	2/29/2024 8:20:00 PM	R103402
Bromobenzene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Bromodichloromethane	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Bromoform	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Bromomethane	ND	3.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
2-Butanone	38	10		µg/L	1	2/29/2024 8:20:00 PM	R103402
Carbon disulfide	ND	10		µg/L	1	2/29/2024 8:20:00 PM	R103402
Carbon Tetrachloride	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Chlorobenzene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Chloroethane	ND	2.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Chloroform	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402A38

Date Reported: 3/6/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated EFF

Project: Former Y Station State Lead Site

Collection Date: 2/19/2024 2:35:00 PM

Lab ID: 2402A38-001

Matrix: AQUEOUS

Received Date: 2/21/2024 1:43:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Chloromethane	ND	3.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
2-Chlorotoluene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
4-Chlorotoluene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
cis-1,2-DCE	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Dibromochloromethane	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Dibromomethane	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,1-Dichloroethane	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,1-Dichloroethene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,2-Dichloropropane	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,3-Dichloropropane	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
2,2-Dichloropropane	ND	2.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,1-Dichloropropene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Hexachlorobutadiene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
2-Hexanone	17	10		µg/L	1	2/29/2024 8:20:00 PM	R103402
Isopropylbenzene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
4-Isopropyltoluene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
4-Methyl-2-pentanone	ND	10		µg/L	1	2/29/2024 8:20:00 PM	R103402
Methylene Chloride	ND	3.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
n-Butylbenzene	ND	3.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
n-Propylbenzene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
sec-Butylbenzene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Styrene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
tert-Butylbenzene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
trans-1,2-DCE	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402A38

Date Reported: 3/6/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Treated EFF

Project: Former Y Station State Lead Site

Collection Date: 2/19/2024 2:35:00 PM

Lab ID: 2402A38-001

Matrix: AQUEOUS

Received Date: 2/21/2024 1:43:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Trichlorofluoromethane	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Vinyl chloride	ND	1.0		µg/L	1	2/29/2024 8:20:00 PM	R103402
Xylenes, Total	ND	1.5		µg/L	1	2/29/2024 8:20:00 PM	R103402
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	2/29/2024 8:20:00 PM	R103402
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	2/29/2024 8:20:00 PM	R103402
Surr: Dibromofluoromethane	103	70-130		%Rec	1	2/29/2024 8:20:00 PM	R103402
Surr: Toluene-d8	90.9	70-130		%Rec	1	2/29/2024 8:20:00 PM	R103402

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402A38

Date Reported: 3/6/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y Station State Lead Site

Collection Date: 2/19/2024 2:21:00 PM

Lab ID: 2402A38-002

Matrix: AQUEOUS

Received Date: 2/21/2024 1:43:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: RBC
Chloride	86	2.5		mg/L	5	2/23/2024 11:34:50 PM	R103302
Sulfate	37	2.5		mg/L	5	2/23/2024 11:34:50 PM	R103302
Nitrate+Nitrite as N	ND	1.0		mg/L	5	2/24/2024 2:10:52 AM	R103302
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KCB
Total Dissolved Solids	438	100	D	mg/L	1	2/27/2024 3:49:00 PM	80623
EPA METHOD 8011/504.1: EDB							Analyst: DGH
1,2-Dibromoethane	7.6	0.47		µg/L	50	2/29/2024 4:39:10 PM	80720
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: JKU
Diesel Range Organics (DRO)	1.4	1.0		mg/L	1	2/24/2024 3:37:12 AM	80585
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	2/24/2024 3:37:12 AM	80585
Surr: DNOP	129	45.5-159		%Rec	1	2/24/2024 3:37:12 AM	80585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	4.5	0.25		mg/L	5	2/23/2024 9:03:41 PM	GA1032E
Surr: BFB	101	15-270		%Rec	5	2/23/2024 9:03:41 PM	GA1032E
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	1100	50		µg/L	50	2/29/2024 8:45:00 PM	R103402
Toluene	310	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
Ethylbenzene	18	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,2,4-Trimethylbenzene	36	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,3,5-Trimethylbenzene	22	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,2-Dichloroethane (EDC)	160	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,2-Dibromoethane (EDB)	9.6	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
Naphthalene	14	10		µg/L	5	2/29/2024 9:09:00 PM	R103402
1-Methylnaphthalene	ND	20		µg/L	5	2/29/2024 9:09:00 PM	R103402
2-Methylnaphthalene	ND	20		µg/L	5	2/29/2024 9:09:00 PM	R103402
Acetone	57	50		µg/L	5	2/29/2024 9:09:00 PM	R103402
Bromobenzene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
Bromodichloromethane	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
Bromoform	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
Bromomethane	ND	15		µg/L	5	2/29/2024 9:09:00 PM	R103402
2-Butanone	ND	50		µg/L	5	2/29/2024 9:09:00 PM	R103402
Carbon disulfide	ND	50		µg/L	5	2/29/2024 9:09:00 PM	R103402
Carbon Tetrachloride	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
Chlorobenzene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
Chloroethane	ND	10		µg/L	5	2/29/2024 9:09:00 PM	R103402
Chloroform	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402A38

Date Reported: 3/6/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y Station State Lead Site

Collection Date: 2/19/2024 2:21:00 PM

Lab ID: 2402A38-002

Matrix: AQUEOUS

Received Date: 2/21/2024 1:43:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Chloromethane	ND	15		µg/L	5	2/29/2024 9:09:00 PM	R103402
2-Chlorotoluene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
4-Chlorotoluene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
cis-1,2-DCE	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	2/29/2024 9:09:00 PM	R103402
Dibromochloromethane	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
Dibromomethane	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,2-Dichlorobenzene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,3-Dichlorobenzene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,4-Dichlorobenzene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
Dichlorodifluoromethane	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,1-Dichloroethane	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,1-Dichloroethene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,2-Dichloropropane	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,3-Dichloropropane	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
2,2-Dichloropropane	ND	10		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,1-Dichloropropene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
Hexachlorobutadiene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
2-Hexanone	ND	50		µg/L	5	2/29/2024 9:09:00 PM	R103402
Isopropylbenzene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
4-Isopropyltoluene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
4-Methyl-2-pentanone	ND	50		µg/L	5	2/29/2024 9:09:00 PM	R103402
Methylene Chloride	ND	15		µg/L	5	2/29/2024 9:09:00 PM	R103402
n-Butylbenzene	ND	15		µg/L	5	2/29/2024 9:09:00 PM	R103402
n-Propylbenzene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
sec-Butylbenzene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
Styrene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
tert-Butylbenzene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,1,2,2-Tetrachloroethane	ND	10		µg/L	5	2/29/2024 9:09:00 PM	R103402
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
trans-1,2-DCE	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,2,4-Trichlorobenzene	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,1,1-Trichloroethane	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,1,2-Trichloroethane	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
Trichloroethene (TCE)	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402A38

Date Reported: 3/6/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Raw

Project: Former Y Station State Lead Site

Collection Date: 2/19/2024 2:21:00 PM

Lab ID: 2402A38-002

Matrix: AQUEOUS

Received Date: 2/21/2024 1:43:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Trichlorofluoromethane	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
1,2,3-Trichloropropane	ND	10		µg/L	5	2/29/2024 9:09:00 PM	R103402
Vinyl chloride	ND	5.0		µg/L	5	2/29/2024 9:09:00 PM	R103402
Xylenes, Total	280	7.5		µg/L	5	2/29/2024 9:09:00 PM	R103402
Surr: 1,2-Dichloroethane-d4	98.0	70-130		%Rec	5	2/29/2024 9:09:00 PM	R103402
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	5	2/29/2024 9:09:00 PM	R103402
Surr: Dibromofluoromethane	98.1	70-130		%Rec	5	2/29/2024 9:09:00 PM	R103402
Surr: Toluene-d8	89.4	70-130		%Rec	5	2/29/2024 9:09:00 PM	R103402

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402A38

Date Reported: 3/6/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Ox EFF

Project: Former Y Station State Lead Site

Collection Date: 2/19/2024 2:43:00 PM

Lab ID: 2402A38-003

Matrix: AIR

Received Date: 2/21/2024 1:43:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	27	5.0		µg/L	1	2/23/2024 11:10:48 AM	GA10328
Surr: BFB	97.5	15-412		%Rec	1	2/23/2024 11:10:48 AM	GA10328
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	2/23/2024 11:10:48 AM	BA10328
Benzene	2.9	0.10		µg/L	1	2/23/2024 11:10:48 AM	BA10328
Toluene	2.6	0.10		µg/L	1	2/23/2024 11:10:48 AM	BA10328
Ethylbenzene	0.32	0.10		µg/L	1	2/23/2024 11:10:48 AM	BA10328
Xylenes, Total	1.9	0.20		µg/L	1	2/23/2024 11:10:48 AM	BA10328
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	2/23/2024 11:10:48 AM	BA10328

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order **2402A38**
 Date Reported: **3/6/2024**

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY Comb INF

Project: Former Y Station State Lead Site

Collection Date: 2/19/2024 2:48:00 PM

Lab ID: 2402A38-004

Matrix: AIR

Received Date: 2/21/2024 1:43:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	6700	250		µg/L	50	2/23/2024 11:58:27 AM	GA10328
Surr: BFB	119	15-412		%Rec	50	2/23/2024 11:58:27 AM	GA10328
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	12		µg/L	50	2/23/2024 11:58:27 AM	BA10328
Benzene	68	5.0		µg/L	50	2/23/2024 11:58:27 AM	BA10328
Toluene	320	5.0		µg/L	50	2/23/2024 11:58:27 AM	BA10328
Ethylbenzene	33	5.0		µg/L	50	2/23/2024 11:58:27 AM	BA10328
Xylenes, Total	160	10		µg/L	50	2/23/2024 11:58:27 AM	BA10328
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	50	2/23/2024 11:58:27 AM	BA10328

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402A38

Date Reported: 3/6/2024

CLIENT: Daniel B. Stephens & Assoc.

Client Sample ID: FY DTA EFF

Project: Former Y Station State Lead Site

Collection Date: 2/19/2024 2:45:00 PM

Lab ID: 2402A38-005

Matrix: AIR

Received Date: 2/21/2024 1:43:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	17	5.0		µg/L	1	2/23/2024 12:22:28 PM	GA10328
Surr: BFB	104	15-412		%Rec	1	2/23/2024 12:22:28 PM	GA10328
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	2/23/2024 12:22:28 PM	BA10328
Benzene	1.5	0.10		µg/L	1	2/23/2024 12:22:28 PM	BA10328
Toluene	1.0	0.10		µg/L	1	2/23/2024 12:22:28 PM	BA10328
Ethylbenzene	0.20	0.10		µg/L	1	2/23/2024 12:22:28 PM	BA10328
Xylenes, Total	1.7	0.20		µg/L	1	2/23/2024 12:22:28 PM	BA10328
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/23/2024 12:22:28 PM	BA10328

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402A38

06-Mar-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R103302	RunNo: 103302								
Prep Date:	Analysis Date: 2/23/2024	SeqNo: 3820127			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: LCS	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R103302	RunNo: 103302								
Prep Date:	Analysis Date: 2/23/2024	SeqNo: 3820128			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.8	90	110			
Sulfate	9.6	0.50	10.00	0	96.2	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	99.1	90	110			

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R103340	RunNo: 103340								
Prep Date:	Analysis Date: 2/26/2024	SeqNo: 3822759			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

Sample ID: LCS	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R103340	RunNo: 103340								
Prep Date:	Analysis Date: 2/26/2024	SeqNo: 3822761			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	10	0.50	10.00	0	103	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402A38

06-Mar-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-80720	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 80720	RunNo: 103431								
Prep Date: 2/29/2024	Analysis Date: 2/29/2024	SeqNo: 3827077	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-80720	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 80720	RunNo: 103431								
Prep Date: 2/29/2024	Analysis Date: 2/29/2024	SeqNo: 3827078	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.094	0.010	0.1000	0	93.6	70	130			

Sample ID: LCSD-80720	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 80720	RunNo: 103431								
Prep Date: 2/29/2024	Analysis Date: 2/29/2024	SeqNo: 3827079	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.11	0.010	0.1000	0	108	70	130	14.1	20	

Sample ID: MB-80720	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 80720	RunNo: 103431								
Prep Date: 2/29/2024	Analysis Date: 2/29/2024	SeqNo: 3827115	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-80720	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 80720	RunNo: 103431								
Prep Date: 2/29/2024	Analysis Date: 2/29/2024	SeqNo: 3827116	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.096	0.010	0.1000	0	95.7	70	130			

Sample ID: LCSD-80720	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 80720	RunNo: 103431								
Prep Date: 2/29/2024	Analysis Date: 2/29/2024	SeqNo: 3827118	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.11	0.010	0.1000	0	107	70	130	10.7	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402A38

06-Mar-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-80585	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 80585	RunNo: 103274								
Prep Date: 2/22/2024	Analysis Date: 2/23/2024	SeqNo: 3821201	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.62		0.5000		123	45.5	159			

Sample ID: LCS-80585	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: LCSW	Batch ID: 80585	RunNo: 103274								
Prep Date: 2/22/2024	Analysis Date: 2/23/2024	SeqNo: 3821202	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	3.2	1.0	2.500	0	126	57	147			
Surr: DNOP	0.31		0.2500		123	45.5	159			

Sample ID: 2402A38-002CMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: FY Raw	Batch ID: 80585	RunNo: 103274								
Prep Date: 2/22/2024	Analysis Date: 2/24/2024	SeqNo: 3821212	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	4.5	1.0	2.500	1.435	121	32.8	161			
Surr: DNOP	0.30		0.2500		120	45.5	159			

Sample ID: 2402A38-002CMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: FY Raw	Batch ID: 80585	RunNo: 103274								
Prep Date: 2/22/2024	Analysis Date: 2/24/2024	SeqNo: 3821213	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	4.6	1.0	2.500	1.435	125	32.8	161	2.25	20	
Surr: DNOP	0.30		0.2500		122	45.5	159	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402A38

06-Mar-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 2402a38-003adup	SampType: DUP	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: FY Ox EFF	Batch ID: GA103284	RunNo: 103284								
Prep Date:	Analysis Date: 2/23/2024	SeqNo: 3819618			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0						8.17	20	
Surr: BFB	2000		2000		101	15	412	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402A38

06-Mar-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: GA103284		RunNo: 103284							
Prep Date:	Analysis Date: 2/23/2024		SeqNo: 3819615		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.49	0.050	0.5000	0	98.3	70	130			
Surr: BFB	40		20.00		199	15	270			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: GA103284		RunNo: 103284							
Prep Date:	Analysis Date: 2/23/2024		SeqNo: 3819616		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		94.8	15	270			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402A38

06-Mar-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 2402a38-003adup	SampType: DUP	TestCode: EPA Method 8021B: Volatiles								
Client ID: FY Ox EFF	Batch ID: BA103284	RunNo: 103284								
Prep Date:	Analysis Date: 2/23/2024	SeqNo: 3819623 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.25						0	20	
Benzene	3.1	0.10						7.39	20	
Toluene	2.7	0.10						6.50	20	
Ethylbenzene	0.34	0.10						7.44	20	
Xylenes, Total	2.0	0.20						7.82	20	
Surr: 4-Bromofluorobenzene	2.0		2.000		98.6	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402A38

06-Mar-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: 100ng lcs	SampType: LCS		TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch ID: R103402		RunNo: 103402							
Prep Date:	Analysis Date: 2/29/2024		SeqNo: 3827111		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	70	130			
Toluene	19	1.0	20.00	0	96.6	70	130			
Chlorobenzene	20	1.0	20.00	0	98.7	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	97.4	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	99.1	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.5	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.1		10.00		91.0	70	130			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R103402		RunNo: 103402							
Prep Date:	Analysis Date: 2/29/2024		SeqNo: 3827117		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402A38

06-Mar-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R103402	RunNo: 103402								
Prep Date:	Analysis Date: 2/29/2024	SeqNo: 3827117			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402A38

06-Mar-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R103402		RunNo: 103402							
Prep Date:	Analysis Date: 2/29/2024		SeqNo: 3827117		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.5	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.1		10.00		91.2	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402A38

06-Mar-24

Client: Daniel B. Stephens & Assoc.
Project: Former Y Station State Lead Site

Sample ID: MB-80623	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 80623	RunNo: 103362								
Prep Date: 2/26/2024	Analysis Date: 2/27/2024	SeqNo: 3823476	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: LCS-80623	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 80623	RunNo: 103362								
Prep Date: 2/26/2024	Analysis Date: 2/27/2024	SeqNo: 3823477	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	50.0	1000	0	102	80	120			

Qualifiers:

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

Client Name: **Daniel B. Stephens &** Work Order Number: **2402A38** RcptNo: 1

Received By: *Nick Lowman* 2/21/2024 1:43:00 PM *Nick Lowman*

Completed By: **Desiree Dominguez** 2/21/2024 2:08:56 PM *DD*

Reviewed By: *[Signature]* 2/21/24

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: 2
(<2 or >12 unless noted)

Adjusted? NO

Checked by: M 2/21/24

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-0.9	Good	Not Present	Yogi		
2	NA	Good	Not Present	NA		

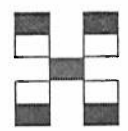
Chain-of-Custody Record

Client: **Daniel B Stephens & Associates**
 Mailing Address: **6020 Academy Rd NE, STE 100**
Albuquerque, NM 87109
 Phone #: **505-822-9400**
 email or Fax#: **gherrmann@geo-logic.com**

QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush _____
 Project Name:
Former Y Station State Lead Site
 Project #:
DB18.1157
 Project Manager:
Grace Herrmann
 Sampler: **Alex Nunez-Thompson**
 On Ice: Yes No
 # of Coolers: **2**

Cooler Temp (including CR): **N/A and -0.9 ± 0 = -0.9**
 Container Type and # Preservative Type HEAL No.
2402A38



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

VOCs - EPA method 8260B	EDB - EPA method 504.1	TPH GRO and DRO - EPA method 8015B	Sulfate/Chloride - EPA method 200.7	Nitrate (as N) - EPA method 300.0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B											
X	X	X	X	X	X													
X	X	X	X	X	X													
										X	X							
										X	X							
										X	X							

2/19 2/19 2/19 2/19 2/19

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2/19/24	1435	H ₂ O	FY Treated Eff	7-40ml, 1-plust, 1-camber	HCl, Thio, H ₂ SO ₄	-001
2/19/24	1421	H ₂ O	FY Raw	7-40ml, 1-plust, 1-camber	HCl, Thio, H ₂ SO ₄	-002
2/19/24	1443	Air	FY Ox Eff	1-Tedlar	None	-003
2/19/24	1448	Air	FY Comb Inf	1-Tedlar	None	-004
2/19/24	1445	Air	FY DTA EFF	1-Tedlar	None	-005
			Frip Blank			-006 ^{DAD} 2-21-24

Date: **2/21/24** Time: **1343** Relinquished by: **Alex Nunez-Thompson**
 Received by: **[Signature]** Via: **COO** Date: **2/21/24** Time: **1343**
 Date: _____ Time: _____ Relinquished by: _____
 Received by: _____ Via: _____ Date: _____ Time: _____

Remarks:
 Samples not frozen upon receipt. ^{re} 2/21/24
 Sample ID labels written "1/19" and should say "2/19" *Alex Nunez-Thompson* 2/21

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.

 **ANALYTICAL REPORT****PREPARED FOR**

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

Generated 4/15/2024 9:17:52 AM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-630-1

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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4/15/2024 9:17:52 AM

Authorized for release by
Tiffany Shaw, Project Manager I
tiffany.shaw@et.eurofinsus.com
(505)345-3975



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Definitions/Glossary

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

Job ID: 885-630-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

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

Case Narrative

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

Job ID: 885-630-1

Job ID: 885-630-1

Eurofins Albuquerque

Job Narrative 885-630-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/6/2024 2:18 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 0.4°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.

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_28D_NO3: The following samples were analyzed outside of analytical holding time due to analyst error: FY Raw (885-630-1) and FY Treated EFF (885-630-2).

Method 300_OF_28D_NO3: The following samples were diluted due to the nature of the sample matrix: FY Raw (885-630-1) and FY Treated EFF (885-630-2). Elevated reporting limits (RLs) are provided.

Method 300_OF_28D_NO3: Reanalysis of the following samples were performed outside of the analytical holding time due to analyst error: FY Raw (885-630-1) and FY Treated EFF (885-630-2).

Method 300_OF_28D_PREC: The following samples were analyzed outside of analytical holding time due to analyst error: FY Raw (885-630-1) and FY Treated EFF (885-630-2).

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.

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Client Sample Results

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

Job ID: 885-630-1

Client Sample ID: FY Raw

Lab Sample ID: 885-630-1

Date Collected: 03/05/24 15:32

Matrix: Water

Date Received: 03/06/24 14:18

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			03/12/24 19:59	1
1,1,1-Trichloroethane	ND		1.0	ug/L			03/12/24 19:59	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			03/12/24 19:59	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/12/24 19:59	1
1,1-Dichloroethane	ND		1.0	ug/L			03/12/24 19:59	1
1,1-Dichloroethene	ND		1.0	ug/L			03/12/24 19:59	1
1,1-Dichloropropene	ND		1.0	ug/L			03/12/24 19:59	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/12/24 19:59	1
1,2,3-Trichloropropane	ND		2.0	ug/L			03/12/24 19:59	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/12/24 19:59	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/12/24 19:59	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/12/24 19:59	1
1,2-Dibromoethane (EDB)	1.8		1.0	ug/L			03/12/24 19:59	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/12/24 19:59	1
1,2-Dichloroethane (EDC)	85		10	ug/L			03/15/24 13:32	10
1,2-Dichloropropane	ND		1.0	ug/L			03/12/24 19:59	1
1,3,5-Trimethylbenzene	3.1		1.0	ug/L			03/12/24 19:59	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/12/24 19:59	1
1,3-Dichloropropane	ND		1.0	ug/L			03/12/24 19:59	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/12/24 19:59	1
1-Methylnaphthalene	ND		4.0	ug/L			03/12/24 19:59	1
2,2-Dichloropropane	ND		2.0	ug/L			03/12/24 19:59	1
2-Butanone	ND		10	ug/L			03/12/24 19:59	1
2-Chlorotoluene	ND		1.0	ug/L			03/12/24 19:59	1
2-Hexanone	ND		10	ug/L			03/12/24 19:59	1
2-Methylnaphthalene	ND		4.0	ug/L			03/12/24 19:59	1
4-Chlorotoluene	ND		1.0	ug/L			03/12/24 19:59	1
4-Isopropyltoluene	ND		1.0	ug/L			03/12/24 19:59	1
4-Methyl-2-pentanone	ND		10	ug/L			03/12/24 19:59	1
Acetone	ND		10	ug/L			03/12/24 19:59	1
Benzene	31		1.0	ug/L			03/12/24 19:59	1
Bromobenzene	ND		1.0	ug/L			03/12/24 19:59	1
Bromodichloromethane	ND		1.0	ug/L			03/12/24 19:59	1
Dibromochloromethane	ND		1.0	ug/L			03/12/24 19:59	1
Bromoform	ND		1.0	ug/L			03/12/24 19:59	1
Bromomethane	ND		3.0	ug/L			03/12/24 19:59	1
Carbon disulfide	ND		10	ug/L			03/12/24 19:59	1
Carbon tetrachloride	ND		1.0	ug/L			03/12/24 19:59	1
Chlorobenzene	ND		1.0	ug/L			03/12/24 19:59	1
Chloroethane	ND		2.0	ug/L			03/12/24 19:59	1
Chloroform	ND		1.0	ug/L			03/12/24 19:59	1
Chloromethane	ND		3.0	ug/L			03/12/24 19:59	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/12/24 19:59	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			03/12/24 19:59	1
Dibromomethane	ND		1.0	ug/L			03/12/24 19:59	1
Dichlorodifluoromethane	ND		1.0	ug/L			03/12/24 19:59	1
Ethylbenzene	ND		1.0	ug/L			03/12/24 19:59	1
Hexachlorobutadiene	ND		1.0	ug/L			03/12/24 19:59	1
Isopropylbenzene	ND		1.0	ug/L			03/12/24 19:59	1

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Client Sample Results

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

Job ID: 885-630-1

Client Sample ID: FY Raw

Lab Sample ID: 885-630-1

Date Collected: 03/05/24 15:32

Matrix: Water

Date Received: 03/06/24 14:18

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			03/12/24 19:59	1
Methylene Chloride	ND		3.0	ug/L			03/12/24 19:59	1
n-Butylbenzene	ND		3.0	ug/L			03/12/24 19:59	1
N-Propylbenzene	ND		1.0	ug/L			03/12/24 19:59	1
Naphthalene	ND		2.0	ug/L			03/12/24 19:59	1
sec-Butylbenzene	ND		1.0	ug/L			03/12/24 19:59	1
Styrene	ND		1.0	ug/L			03/12/24 19:59	1
tert-Butylbenzene	ND		1.0	ug/L			03/12/24 19:59	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			03/12/24 19:59	1
Toluene	ND		1.0	ug/L			03/12/24 19:59	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/12/24 19:59	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			03/12/24 19:59	1
Trichloroethene (TCE)	ND		1.0	ug/L			03/12/24 19:59	1
Trichlorofluoromethane	ND		1.0	ug/L			03/12/24 19:59	1
Vinyl chloride	ND		1.0	ug/L			03/12/24 19:59	1
Xylenes, Total	6.9		1.5	ug/L			03/12/24 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		70 - 130		03/12/24 19:59	1
Toluene-d8 (Surr)	99		70 - 130		03/12/24 19:59	1
4-Bromofluorobenzene (Surr)	98		70 - 130		03/12/24 19:59	1
Dibromofluoromethane (Surr)	113		70 - 130		03/12/24 19:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.35		0.25	mg/L			03/11/24 15:01	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 270		03/11/24 15:01	5

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	1.2		0.094	ug/L		03/08/24 11:53	03/09/24 11:26	10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	mg/L		03/11/24 08:44	03/11/24 11:34	1
Motor Oil Range Organics [C28-C40]	ND		5.0	mg/L		03/11/24 08:44	03/11/24 11:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	108		55 - 177		03/11/24 08:44	03/11/24 11:34	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66	H	2.5	mg/L			04/10/24 10:16	5
Sulfate	33	H	2.5	mg/L			04/10/24 10:16	5
Nitrate Nitrite as N	1.3	H	1.0	mg/L			04/10/24 10:16	5

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	420		50	mg/L			03/12/24 10:31	1

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Client Sample Results

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

Job ID: 885-630-1

Client Sample ID: FY Treated EFF

Lab Sample ID: 885-630-2

Date Collected: 03/05/24 15:58

Matrix: Water

Date Received: 03/06/24 14:18

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			03/12/24 20:27	1
1,1,1-Trichloroethane	ND		1.0	ug/L			03/12/24 20:27	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			03/12/24 20:27	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/12/24 20:27	1
1,1-Dichloroethane	ND		1.0	ug/L			03/12/24 20:27	1
1,1-Dichloroethene	ND		1.0	ug/L			03/12/24 20:27	1
1,1-Dichloropropene	ND		1.0	ug/L			03/12/24 20:27	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/12/24 20:27	1
1,2,3-Trichloropropane	ND		2.0	ug/L			03/12/24 20:27	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/12/24 20:27	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/12/24 20:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/12/24 20:27	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			03/12/24 20:27	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/12/24 20:27	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			03/12/24 20:27	1
1,2-Dichloropropane	ND		1.0	ug/L			03/12/24 20:27	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/12/24 20:27	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/12/24 20:27	1
1,3-Dichloropropane	ND		1.0	ug/L			03/12/24 20:27	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/12/24 20:27	1
1-Methylnaphthalene	ND		4.0	ug/L			03/12/24 20:27	1
2,2-Dichloropropane	ND		2.0	ug/L			03/12/24 20:27	1
2-Butanone	ND		10	ug/L			03/12/24 20:27	1
2-Chlorotoluene	ND		1.0	ug/L			03/12/24 20:27	1
2-Hexanone	ND		10	ug/L			03/12/24 20:27	1
2-Methylnaphthalene	ND		4.0	ug/L			03/12/24 20:27	1
4-Chlorotoluene	ND		1.0	ug/L			03/12/24 20:27	1
4-Isopropyltoluene	ND		1.0	ug/L			03/12/24 20:27	1
4-Methyl-2-pentanone	ND		10	ug/L			03/12/24 20:27	1
Acetone	ND		10	ug/L			03/12/24 20:27	1
Benzene	ND		1.0	ug/L			03/12/24 20:27	1
Bromobenzene	ND		1.0	ug/L			03/12/24 20:27	1
Bromodichloromethane	ND		1.0	ug/L			03/12/24 20:27	1
Dibromochloromethane	ND		1.0	ug/L			03/12/24 20:27	1
Bromoform	ND		1.0	ug/L			03/12/24 20:27	1
Bromomethane	ND		3.0	ug/L			03/12/24 20:27	1
Carbon disulfide	ND		10	ug/L			03/12/24 20:27	1
Carbon tetrachloride	ND		1.0	ug/L			03/12/24 20:27	1
Chlorobenzene	ND		1.0	ug/L			03/12/24 20:27	1
Chloroethane	ND		2.0	ug/L			03/12/24 20:27	1
Chloroform	ND		1.0	ug/L			03/12/24 20:27	1
Chloromethane	ND		3.0	ug/L			03/12/24 20:27	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/12/24 20:27	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			03/12/24 20:27	1
Dibromomethane	ND		1.0	ug/L			03/12/24 20:27	1
Dichlorodifluoromethane	ND		1.0	ug/L			03/12/24 20:27	1
Ethylbenzene	ND		1.0	ug/L			03/12/24 20:27	1
Hexachlorobutadiene	ND		1.0	ug/L			03/12/24 20:27	1
Isopropylbenzene	ND		1.0	ug/L			03/12/24 20:27	1

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-630-1

Client Sample ID: FY Treated EFF

Lab Sample ID: 885-630-2

Date Collected: 03/05/24 15:58

Matrix: Water

Date Received: 03/06/24 14:18

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			03/12/24 20:27	1
Methylene Chloride	ND		3.0	ug/L			03/12/24 20:27	1
n-Butylbenzene	ND		3.0	ug/L			03/12/24 20:27	1
N-Propylbenzene	ND		1.0	ug/L			03/12/24 20:27	1
Naphthalene	ND		2.0	ug/L			03/12/24 20:27	1
sec-Butylbenzene	ND		1.0	ug/L			03/12/24 20:27	1
Styrene	ND		1.0	ug/L			03/12/24 20:27	1
tert-Butylbenzene	ND		1.0	ug/L			03/12/24 20:27	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			03/12/24 20:27	1
Toluene	ND		1.0	ug/L			03/12/24 20:27	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/12/24 20:27	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			03/12/24 20:27	1
Trichloroethene (TCE)	ND		1.0	ug/L			03/12/24 20:27	1
Trichlorofluoromethane	ND		1.0	ug/L			03/12/24 20:27	1
Vinyl chloride	ND		1.0	ug/L			03/12/24 20:27	1
Xylenes, Total	ND		1.5	ug/L			03/12/24 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		70 - 130		03/12/24 20:27	1
Toluene-d8 (Surr)	102		70 - 130		03/12/24 20:27	1
4-Bromofluorobenzene (Surr)	97		70 - 130		03/12/24 20:27	1
Dibromofluoromethane (Surr)	124		70 - 130		03/12/24 20:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050	mg/L			03/11/24 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 270		03/11/24 15:24	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.031		0.0094	ug/L		03/08/24 11:53	03/08/24 20:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	mg/L		03/11/24 08:44	03/11/24 11:46	1
Motor Oil Range Organics [C28-C40]	ND		5.0	mg/L		03/11/24 08:44	03/11/24 11:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	115		55 - 177		03/11/24 08:44	03/11/24 11:46	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78	H	2.5	mg/L			04/10/24 11:06	5
Sulfate	38	H	2.5	mg/L			04/10/24 11:06	5
Nitrate Nitrite as N	1.3	H	1.0	mg/L			04/10/24 11:06	5

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	460		50	mg/L			03/12/24 10:31	1

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Client Sample Results

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

Job ID: 885-630-1

Client Sample ID: TB

Lab Sample ID: 885-630-3

Date Collected: 03/05/24 00:00

Matrix: Trip Blank

Date Received: 03/06/24 14:18

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			03/12/24 20:55	1
1,1,1-Trichloroethane	ND		1.0	ug/L			03/12/24 20:55	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			03/12/24 20:55	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/12/24 20:55	1
1,1-Dichloroethane	ND		1.0	ug/L			03/12/24 20:55	1
1,1-Dichloroethene	ND		1.0	ug/L			03/12/24 20:55	1
1,1-Dichloropropene	ND		1.0	ug/L			03/12/24 20:55	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/12/24 20:55	1
1,2,3-Trichloropropane	ND		2.0	ug/L			03/12/24 20:55	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/12/24 20:55	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/12/24 20:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/12/24 20:55	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			03/12/24 20:55	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/12/24 20:55	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			03/12/24 20:55	1
1,2-Dichloropropane	ND		1.0	ug/L			03/12/24 20:55	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/12/24 20:55	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/12/24 20:55	1
1,3-Dichloropropane	ND		1.0	ug/L			03/12/24 20:55	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/12/24 20:55	1
1-Methylnaphthalene	ND		4.0	ug/L			03/12/24 20:55	1
2,2-Dichloropropane	ND		2.0	ug/L			03/12/24 20:55	1
2-Butanone	ND		10	ug/L			03/12/24 20:55	1
2-Chlorotoluene	ND		1.0	ug/L			03/12/24 20:55	1
2-Hexanone	ND		10	ug/L			03/12/24 20:55	1
2-Methylnaphthalene	ND		4.0	ug/L			03/12/24 20:55	1
4-Chlorotoluene	ND		1.0	ug/L			03/12/24 20:55	1
4-Isopropyltoluene	ND		1.0	ug/L			03/12/24 20:55	1
4-Methyl-2-pentanone	ND		10	ug/L			03/12/24 20:55	1
Acetone	ND		10	ug/L			03/12/24 20:55	1
Benzene	ND		1.0	ug/L			03/12/24 20:55	1
Bromobenzene	ND		1.0	ug/L			03/12/24 20:55	1
Bromodichloromethane	ND		1.0	ug/L			03/12/24 20:55	1
Dibromochloromethane	ND		1.0	ug/L			03/12/24 20:55	1
Bromoform	ND		1.0	ug/L			03/12/24 20:55	1
Bromomethane	ND		3.0	ug/L			03/12/24 20:55	1
Carbon disulfide	ND		10	ug/L			03/12/24 20:55	1
Carbon tetrachloride	ND		1.0	ug/L			03/12/24 20:55	1
Chlorobenzene	ND		1.0	ug/L			03/12/24 20:55	1
Chloroethane	ND		2.0	ug/L			03/12/24 20:55	1
Chloroform	ND		1.0	ug/L			03/12/24 20:55	1
Chloromethane	ND		3.0	ug/L			03/12/24 20:55	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/12/24 20:55	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			03/12/24 20:55	1
Dibromomethane	ND		1.0	ug/L			03/12/24 20:55	1
Dichlorodifluoromethane	ND		1.0	ug/L			03/12/24 20:55	1
Ethylbenzene	ND		1.0	ug/L			03/12/24 20:55	1
Hexachlorobutadiene	ND		1.0	ug/L			03/12/24 20:55	1
Isopropylbenzene	ND		1.0	ug/L			03/12/24 20:55	1

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Client Sample Results

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

Job ID: 885-630-1

Client Sample ID: TB

Lab Sample ID: 885-630-3

Date Collected: 03/05/24 00:00

Matrix: Trip Blank

Date Received: 03/06/24 14:18

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			03/12/24 20:55	1
Methylene Chloride	ND		3.0	ug/L			03/12/24 20:55	1
n-Butylbenzene	ND		3.0	ug/L			03/12/24 20:55	1
N-Propylbenzene	ND		1.0	ug/L			03/12/24 20:55	1
Naphthalene	ND		2.0	ug/L			03/12/24 20:55	1
sec-Butylbenzene	ND		1.0	ug/L			03/12/24 20:55	1
Styrene	ND		1.0	ug/L			03/12/24 20:55	1
tert-Butylbenzene	ND		1.0	ug/L			03/12/24 20:55	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			03/12/24 20:55	1
Toluene	ND		1.0	ug/L			03/12/24 20:55	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/12/24 20:55	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			03/12/24 20:55	1
Trichloroethene (TCE)	ND		1.0	ug/L			03/12/24 20:55	1
Trichlorofluoromethane	ND		1.0	ug/L			03/12/24 20:55	1
Vinyl chloride	ND		1.0	ug/L			03/12/24 20:55	1
Xylenes, Total	ND		1.5	ug/L			03/12/24 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		70 - 130		03/12/24 20:55	1
Toluene-d8 (Surr)	95		70 - 130		03/12/24 20:55	1
4-Bromofluorobenzene (Surr)	96		70 - 130		03/12/24 20:55	1
Dibromofluoromethane (Surr)	128		70 - 130		03/12/24 20:55	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.0095	ug/L		03/08/24 11:53	03/08/24 20:43	1

QC Sample Results

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

Job ID: 885-630-1

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

Lab Sample ID: MB 885-1627/25
Matrix: Water
Analysis Batch: 1627

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			03/12/24 10:19	1
1,1,1-Trichloroethane	ND		1.0	ug/L			03/12/24 10:19	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			03/12/24 10:19	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/12/24 10:19	1
1,1-Dichloroethane	ND		1.0	ug/L			03/12/24 10:19	1
1,1-Dichloroethene	ND		1.0	ug/L			03/12/24 10:19	1
1,1-Dichloropropene	ND		1.0	ug/L			03/12/24 10:19	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/12/24 10:19	1
1,2,3-Trichloropropane	ND		2.0	ug/L			03/12/24 10:19	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/12/24 10:19	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/12/24 10:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/12/24 10:19	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			03/12/24 10:19	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/12/24 10:19	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			03/12/24 10:19	1
1,2-Dichloropropane	ND		1.0	ug/L			03/12/24 10:19	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/12/24 10:19	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/12/24 10:19	1
1,3-Dichloropropane	ND		1.0	ug/L			03/12/24 10:19	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/12/24 10:19	1
1-Methylnaphthalene	ND		4.0	ug/L			03/12/24 10:19	1
2,2-Dichloropropane	ND		2.0	ug/L			03/12/24 10:19	1
2-Butanone	ND		10	ug/L			03/12/24 10:19	1
2-Chlorotoluene	ND		1.0	ug/L			03/12/24 10:19	1
2-Hexanone	ND		10	ug/L			03/12/24 10:19	1
2-Methylnaphthalene	ND		4.0	ug/L			03/12/24 10:19	1
4-Chlorotoluene	ND		1.0	ug/L			03/12/24 10:19	1
4-Isopropyltoluene	ND		1.0	ug/L			03/12/24 10:19	1
4-Methyl-2-pentanone	ND		10	ug/L			03/12/24 10:19	1
Acetone	ND		10	ug/L			03/12/24 10:19	1
Benzene	ND		1.0	ug/L			03/12/24 10:19	1
Bromobenzene	ND		1.0	ug/L			03/12/24 10:19	1
Bromodichloromethane	ND		1.0	ug/L			03/12/24 10:19	1
Dibromochloromethane	ND		1.0	ug/L			03/12/24 10:19	1
Bromoform	ND		1.0	ug/L			03/12/24 10:19	1
Bromomethane	ND		3.0	ug/L			03/12/24 10:19	1
Carbon disulfide	ND		10	ug/L			03/12/24 10:19	1
Carbon tetrachloride	ND		1.0	ug/L			03/12/24 10:19	1
Chlorobenzene	ND		1.0	ug/L			03/12/24 10:19	1
Chloroethane	ND		2.0	ug/L			03/12/24 10:19	1
Chloroform	ND		1.0	ug/L			03/12/24 10:19	1
Chloromethane	ND		3.0	ug/L			03/12/24 10:19	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/12/24 10:19	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			03/12/24 10:19	1
Dibromomethane	ND		1.0	ug/L			03/12/24 10:19	1
Dichlorodifluoromethane	ND		1.0	ug/L			03/12/24 10:19	1
Ethylbenzene	ND		1.0	ug/L			03/12/24 10:19	1
Hexachlorobutadiene	ND		1.0	ug/L			03/12/24 10:19	1

QC Sample Results

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

Job ID: 885-630-1

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

Lab Sample ID: MB 885-1627/25
Matrix: Water
Analysis Batch: 1627

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	ug/L			03/12/24 10:19	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			03/12/24 10:19	1
Methylene Chloride	ND		3.0	ug/L			03/12/24 10:19	1
n-Butylbenzene	ND		3.0	ug/L			03/12/24 10:19	1
N-Propylbenzene	ND		1.0	ug/L			03/12/24 10:19	1
Naphthalene	ND		2.0	ug/L			03/12/24 10:19	1
sec-Butylbenzene	ND		1.0	ug/L			03/12/24 10:19	1
Styrene	ND		1.0	ug/L			03/12/24 10:19	1
tert-Butylbenzene	ND		1.0	ug/L			03/12/24 10:19	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			03/12/24 10:19	1
Toluene	ND		1.0	ug/L			03/12/24 10:19	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/12/24 10:19	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			03/12/24 10:19	1
Trichloroethene (TCE)	ND		1.0	ug/L			03/12/24 10:19	1
Trichlorofluoromethane	ND		1.0	ug/L			03/12/24 10:19	1
Vinyl chloride	ND		1.0	ug/L			03/12/24 10:19	1
Xylenes, Total	ND		1.5	ug/L			03/12/24 10:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		03/12/24 10:19	1
Toluene-d8 (Surr)	101		70 - 130		03/12/24 10:19	1
4-Bromofluorobenzene (Surr)	100		70 - 130		03/12/24 10:19	1
Dibromofluoromethane (Surr)	110		70 - 130		03/12/24 10:19	1

Lab Sample ID: LCS 885-1627/2
Matrix: Water
Analysis Batch: 1627

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	22.4		ug/L		111	70 - 130
Chlorobenzene	20.1	20.0		ug/L		100	70 - 130
Toluene	20.2	20.2		ug/L		100	70 - 130
Trichloroethene (TCE)	20.2	20.9		ug/L		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Toluene-d8 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	110		70 - 130

Lab Sample ID: MB 885-1824/21
Matrix: Water
Analysis Batch: 1824

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			03/15/24 13:04	1
1,1,1-Trichloroethane	ND		1.0	ug/L			03/15/24 13:04	1

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QC Sample Results

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

Job ID: 885-630-1

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

Lab Sample ID: MB 885-1824/21
Matrix: Water
Analysis Batch: 1824

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			03/15/24 13:04	1
1,1,2-Trichloroethane	ND		1.0	ug/L			03/15/24 13:04	1
1,1-Dichloroethane	ND		1.0	ug/L			03/15/24 13:04	1
1,1-Dichloroethene	ND		1.0	ug/L			03/15/24 13:04	1
1,1-Dichloropropene	ND		1.0	ug/L			03/15/24 13:04	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			03/15/24 13:04	1
1,2,3-Trichloropropane	ND		2.0	ug/L			03/15/24 13:04	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			03/15/24 13:04	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			03/15/24 13:04	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			03/15/24 13:04	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			03/15/24 13:04	1
1,2-Dichlorobenzene	ND		1.0	ug/L			03/15/24 13:04	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			03/15/24 13:04	1
1,2-Dichloropropane	ND		1.0	ug/L			03/15/24 13:04	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			03/15/24 13:04	1
1,3-Dichlorobenzene	ND		1.0	ug/L			03/15/24 13:04	1
1,3-Dichloropropane	ND		1.0	ug/L			03/15/24 13:04	1
1,4-Dichlorobenzene	ND		1.0	ug/L			03/15/24 13:04	1
1-Methylnaphthalene	ND		4.0	ug/L			03/15/24 13:04	1
2,2-Dichloropropane	ND		2.0	ug/L			03/15/24 13:04	1
2-Butanone	ND		10	ug/L			03/15/24 13:04	1
2-Chlorotoluene	ND		1.0	ug/L			03/15/24 13:04	1
2-Hexanone	ND		10	ug/L			03/15/24 13:04	1
2-Methylnaphthalene	ND		4.0	ug/L			03/15/24 13:04	1
4-Chlorotoluene	ND		1.0	ug/L			03/15/24 13:04	1
4-Isopropyltoluene	ND		1.0	ug/L			03/15/24 13:04	1
4-Methyl-2-pentanone	ND		10	ug/L			03/15/24 13:04	1
Acetone	ND		10	ug/L			03/15/24 13:04	1
Benzene	ND		1.0	ug/L			03/15/24 13:04	1
Bromobenzene	ND		1.0	ug/L			03/15/24 13:04	1
Bromodichloromethane	ND		1.0	ug/L			03/15/24 13:04	1
Dibromochloromethane	ND		1.0	ug/L			03/15/24 13:04	1
Bromoform	ND		1.0	ug/L			03/15/24 13:04	1
Bromomethane	ND		3.0	ug/L			03/15/24 13:04	1
Carbon disulfide	ND		10	ug/L			03/15/24 13:04	1
Carbon tetrachloride	ND		1.0	ug/L			03/15/24 13:04	1
Chlorobenzene	ND		1.0	ug/L			03/15/24 13:04	1
Chloroethane	ND		2.0	ug/L			03/15/24 13:04	1
Chloroform	ND		1.0	ug/L			03/15/24 13:04	1
Chloromethane	ND		3.0	ug/L			03/15/24 13:04	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			03/15/24 13:04	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			03/15/24 13:04	1
Dibromomethane	ND		1.0	ug/L			03/15/24 13:04	1
Dichlorodifluoromethane	ND		1.0	ug/L			03/15/24 13:04	1
Ethylbenzene	ND		1.0	ug/L			03/15/24 13:04	1
Hexachlorobutadiene	ND		1.0	ug/L			03/15/24 13:04	1
Isopropylbenzene	ND		1.0	ug/L			03/15/24 13:04	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			03/15/24 13:04	1
Methylene Chloride	ND		3.0	ug/L			03/15/24 13:04	1

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QC Sample Results

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

Job ID: 885-630-1

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

Lab Sample ID: MB 885-1824/21
Matrix: Water
Analysis Batch: 1824

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		3.0	ug/L			03/15/24 13:04	1
N-Propylbenzene	ND		1.0	ug/L			03/15/24 13:04	1
Naphthalene	ND		2.0	ug/L			03/15/24 13:04	1
sec-Butylbenzene	ND		1.0	ug/L			03/15/24 13:04	1
Styrene	ND		1.0	ug/L			03/15/24 13:04	1
tert-Butylbenzene	ND		1.0	ug/L			03/15/24 13:04	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			03/15/24 13:04	1
Toluene	ND		1.0	ug/L			03/15/24 13:04	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			03/15/24 13:04	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			03/15/24 13:04	1
Trichloroethene (TCE)	ND		1.0	ug/L			03/15/24 13:04	1
Trichlorofluoromethane	ND		1.0	ug/L			03/15/24 13:04	1
Vinyl chloride	ND		1.0	ug/L			03/15/24 13:04	1
Xylenes, Total	ND		1.5	ug/L			03/15/24 13:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		70 - 130		03/15/24 13:04	1
Toluene-d8 (Surr)	101		70 - 130		03/15/24 13:04	1
4-Bromofluorobenzene (Surr)	95		70 - 130		03/15/24 13:04	1
Dibromofluoromethane (Surr)	114		70 - 130		03/15/24 13:04	1

Lab Sample ID: LCS 885-1824/20
Matrix: Water
Analysis Batch: 1824

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	20.7		ug/L		103	70 - 130
Benzene	20.1	24.3		ug/L		121	70 - 130
Chlorobenzene	20.1	19.8		ug/L		99	70 - 130
Toluene	20.2	19.7		ug/L		98	70 - 130
Trichloroethene (TCE)	20.2	20.5		ug/L		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	114		70 - 130
Toluene-d8 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	114		70 - 130

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

Lab Sample ID: MB 885-1638/11
Matrix: Water
Analysis Batch: 1638

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050	mg/L			03/11/24 10:28	1

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QC Sample Results

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

Job ID: 885-630-1

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

Lab Sample ID: MB 885-1638/11
Matrix: Water
Analysis Batch: 1638

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

Surrogate	%Recovery	MB MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 270		03/11/24 10:28	1

Lab Sample ID: LCS 885-1638/3
Matrix: Water
Analysis Batch: 1638

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

Analyte	Spike Added	LCS LCS Result Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	0.500	0.473	mg/L		95	70 - 130

Surrogate	%Recovery	LCS LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	194		15 - 270

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-1472/3-A
Matrix: Water
Analysis Batch: 1559

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1472

Analyte	MB MB Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND	0.010	ug/L		03/08/24 11:53	03/08/24 16:30	1
1,2-Dibromoethane	ND	0.010	ug/L		03/08/24 11:53	03/08/24 16:30	1

Lab Sample ID: LCS 885-1472/4-A
Matrix: Water
Analysis Batch: 1559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1472

Analyte	Spike Added	LCS LCS Result Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	0.100	0.0976	ug/L		98	70 - 130
1,2-Dibromoethane	0.100	0.0978	ug/L		98	70 - 130

Lab Sample ID: LCSD 885-1472/5-A
Matrix: Water
Analysis Batch: 1559

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1472

Analyte	Spike Added	LCSD LCSD Result Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane	0.100	0.0932	ug/L		93	70 - 130	5	20
1,2-Dibromoethane	0.100	0.0959	ug/L		96	70 - 130	2	20

Lab Sample ID: MRL 885-1472/1-A
Matrix: Water
Analysis Batch: 1559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1472

Analyte	Spike Added	MRL MRL Result Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	0.0100	0.00902 J	ug/L		90	60 - 140
1,2-Dibromoethane	0.0100	ND	ug/L		67	60 - 140

QC Sample Results

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

Job ID: 885-630-1

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

Lab Sample ID: MB 885-1501/1-A
Matrix: Water
Analysis Batch: 1576

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1501

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	mg/L		03/11/24 08:44	03/11/24 11:10	1
Motor Oil Range Organics [C28-C40]	ND		5.0	mg/L		03/11/24 08:44	03/11/24 11:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		55 - 177			03/11/24 08:44	03/11/24 11:10	1

Lab Sample ID: LCS 885-1501/2-A
Matrix: Water
Analysis Batch: 1576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	2.50	2.39		mg/L		96	68 - 146
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	110		55 - 177				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-3072/4
Matrix: Water
Analysis Batch: 3072

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			04/10/24 09:52	1
Sulfate	ND		0.50	mg/L			04/10/24 09:52	1

Lab Sample ID: LCS 885-3072/5
Matrix: Water
Analysis Batch: 3072

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	4.70		mg/L		94	90 - 110
Sulfate	10.0	9.58		mg/L		96	90 - 110

Lab Sample ID: MRL 885-3072/3
Matrix: Water
Analysis Batch: 3072

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	0.530		mg/L		106	50 - 150
Sulfate	0.500	0.501		mg/L		100	50 - 150

Lab Sample ID: 885-630-1 MS
Matrix: Water
Analysis Batch: 3072

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
Chloride	66	H	25.0	93.0		mg/L		107	80 - 120

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QC Sample Results

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

Job ID: 885-630-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-630-1 MS
Matrix: Water
Analysis Batch: 3072

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
Sulfate	33	H	50.0	82.8		mg/L		100	80 - 120

Lab Sample ID: 885-630-1 MSD
Matrix: Water
Analysis Batch: 3072

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
Chloride	66	H	25.0	92.6		mg/L		105	80 - 120	0	20
Sulfate	33	H	50.0	82.1		mg/L		99	80 - 120	1	20

Lab Sample ID: MB 885-3073/4
Matrix: Water
Analysis Batch: 3073

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	mg/L			04/10/24 09:52	1

Lab Sample ID: LCS 885-3073/5
Matrix: Water
Analysis Batch: 3073

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	2.46		mg/L		98	90 - 110
Nitrite as N	1.00	0.977		mg/L		98	90 - 110

Lab Sample ID: MRL 885-3073/3
Matrix: Water
Analysis Batch: 3073

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	0.0974	J	mg/L		97	50 - 150
Nitrite as N	0.0999	0.103		mg/L		103	50 - 150

Lab Sample ID: 885-630-1 MS
Matrix: Water
Analysis Batch: 3073

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	1.3	H	12.5	13.8		mg/L		100	80 - 120
Nitrite as N	ND	H	5.00	4.90		mg/L		98	80 - 120

Lab Sample ID: 885-630-1 MSD
Matrix: Water
Analysis Batch: 3073

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	1.3	H	12.5	13.6		mg/L		99	80 - 120	1	20
Nitrite as N	ND	H	5.00	4.82		mg/L		96	80 - 120	2	20

QC Sample Results

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

Job ID: 885-630-1

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

Lab Sample ID: MB 885-1631/1
Matrix: Water
Analysis Batch: 1631

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			03/12/24 10:31	1

Lab Sample ID: LCS 885-1631/2
Matrix: Water
Analysis Batch: 1631

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



QC Association Summary

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

Job ID: 885-630-1

GC/MS VOA

Analysis Batch: 1627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-630-1	FY Raw	Total/NA	Water	8260B	
885-630-2	FY Treated EFF	Total/NA	Water	8260B	
885-630-3	TB	Total/NA	Trip Blank	8260B	
MB 885-1627/25	Method Blank	Total/NA	Water	8260B	
LCS 885-1627/2	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 1824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-630-1	FY Raw	Total/NA	Water	8260B	
MB 885-1824/21	Method Blank	Total/NA	Water	8260B	
LCS 885-1824/20	Lab Control Sample	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 1638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-630-1	FY Raw	Total/NA	Water	8015D	
885-630-2	FY Treated EFF	Total/NA	Water	8015D	
MB 885-1638/11	Method Blank	Total/NA	Water	8015D	
LCS 885-1638/3	Lab Control Sample	Total/NA	Water	8015D	

GC Semi VOA

Prep Batch: 1472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-630-1	FY Raw	Total/NA	Water	504.1	
885-630-2	FY Treated EFF	Total/NA	Water	504.1	
885-630-3	TB	Total/NA	Trip Blank	504.1	
MB 885-1472/3-A	Method Blank	Total/NA	Water	504.1	
LCS 885-1472/4-A	Lab Control Sample	Total/NA	Water	504.1	
LCSD 885-1472/5-A	Lab Control Sample Dup	Total/NA	Water	504.1	
MRL 885-1472/1-A	Lab Control Sample	Total/NA	Water	504.1	

Prep Batch: 1501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-630-1	FY Raw	Total/NA	Water	3511	
885-630-2	FY Treated EFF	Total/NA	Water	3511	
MB 885-1501/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-1501/2-A	Lab Control Sample	Total/NA	Water	3511	

Analysis Batch: 1559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-630-2	FY Treated EFF	Total/NA	Water	504.1	1472
885-630-3	TB	Total/NA	Trip Blank	504.1	1472
MB 885-1472/3-A	Method Blank	Total/NA	Water	504.1	1472
LCS 885-1472/4-A	Lab Control Sample	Total/NA	Water	504.1	1472
LCSD 885-1472/5-A	Lab Control Sample Dup	Total/NA	Water	504.1	1472
MRL 885-1472/1-A	Lab Control Sample	Total/NA	Water	504.1	1472

Analysis Batch: 1568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-630-1	FY Raw	Total/NA	Water	504.1	1472

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QC Association Summary

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

Job ID: 885-630-1

GC Semi VOA

Analysis Batch: 1576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-630-1	FY Raw	Total/NA	Water	8015D	1501
885-630-2	FY Treated EFF	Total/NA	Water	8015D	1501
MB 885-1501/1-A	Method Blank	Total/NA	Water	8015D	1501
LCS 885-1501/2-A	Lab Control Sample	Total/NA	Water	8015D	1501

HPLC/IC

Analysis Batch: 3072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-630-1	FY Raw	Total/NA	Water	300.0	
885-630-2	FY Treated EFF	Total/NA	Water	300.0	
MB 885-3072/4	Method Blank	Total/NA	Water	300.0	
LCS 885-3072/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-3072/3	Lab Control Sample	Total/NA	Water	300.0	
885-630-1 MS	FY Raw	Total/NA	Water	300.0	
885-630-1 MSD	FY Raw	Total/NA	Water	300.0	

Analysis Batch: 3073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-630-1	FY Raw	Total/NA	Water	300.0	
885-630-2	FY Treated EFF	Total/NA	Water	300.0	
MB 885-3073/4	Method Blank	Total/NA	Water	300.0	
LCS 885-3073/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-3073/3	Lab Control Sample	Total/NA	Water	300.0	
885-630-1 MS	FY Raw	Total/NA	Water	300.0	
885-630-1 MSD	FY Raw	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 1631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-630-1	FY Raw	Total/NA	Water	2540C	
885-630-2	FY Treated EFF	Total/NA	Water	2540C	
MB 885-1631/1	Method Blank	Total/NA	Water	2540C	
LCS 885-1631/2	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: 885-630-1

Client Sample ID: FY Raw
Date Collected: 03/05/24 15:32
Date Received: 03/06/24 14:18

Lab Sample ID: 885-630-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	1627	JR	EET ALB	03/12/24 19:59
Total/NA	Analysis	8260B		10	1824	JR	EET ALB	03/15/24 13:32
Total/NA	Analysis	8015D		5	1638	JP	EET ALB	03/11/24 15:01
Total/NA	Prep	504.1			1472	SB	EET ALB	03/08/24 11:53
Total/NA	Analysis	504.1		10	1568	SB	EET ALB	03/09/24 11:26
Total/NA	Prep	3511			1501	JU	EET ALB	03/11/24 08:44
Total/NA	Analysis	8015D		1	1576	JU	EET ALB	03/11/24 11:34
Total/NA	Analysis	300.0		5	3072	RC	EET ALB	04/10/24 10:16
Total/NA	Analysis	300.0		5	3073	RC	EET ALB	04/10/24 10:16
Total/NA	Analysis	2540C		1	1631	KS	EET ALB	03/12/24 10:31

Client Sample ID: FY Treated EFF
Date Collected: 03/05/24 15:58
Date Received: 03/06/24 14:18

Lab Sample ID: 885-630-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	1627	JR	EET ALB	03/12/24 20:27
Total/NA	Analysis	8015D		1	1638	JP	EET ALB	03/11/24 15:24
Total/NA	Prep	504.1			1472	SB	EET ALB	03/08/24 11:53
Total/NA	Analysis	504.1		1	1559	SB	EET ALB	03/08/24 20:26
Total/NA	Prep	3511			1501	JU	EET ALB	03/11/24 08:44
Total/NA	Analysis	8015D		1	1576	JU	EET ALB	03/11/24 11:46
Total/NA	Analysis	300.0		5	3072	RC	EET ALB	04/10/24 11:06
Total/NA	Analysis	300.0		5	3073	RC	EET ALB	04/10/24 11:06
Total/NA	Analysis	2540C		1	1631	KS	EET ALB	03/12/24 10:31

Client Sample ID: TB
Date Collected: 03/05/24 00:00
Date Received: 03/06/24 14:18

Lab Sample ID: 885-630-3
Matrix: Trip Blank

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	1627	JR	EET ALB	03/12/24 20:55
Total/NA	Prep	504.1			1472	SB	EET ALB	03/08/24 11:53
Total/NA	Analysis	504.1		1	1559	SB	EET ALB	03/08/24 20:43

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.
 Project/Site: Former Y Station State Lead Site

Job ID: 885-630-1

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
504.1	504.1	Trip Blank	1,2-Dibromoethane
504.1	504.1	Water	1,2-Dibromoethane
8015D		Water	Gasoline Range Organics [C6 - C10]
8015D	3511	Water	Diesel Range Organics [C10-C28]
8015D	3511	Water	Motor Oil Range Organics [C28-C40]
8260B		Trip Blank	1,1,1,2-Tetrachloroethane
8260B		Trip Blank	1,1,1-Trichloroethane
8260B		Trip Blank	1,1,2,2-Tetrachloroethane
8260B		Trip Blank	1,1,2-Trichloroethane
8260B		Trip Blank	1,1-Dichloroethane
8260B		Trip Blank	1,1-Dichloroethene
8260B		Trip Blank	1,1-Dichloropropene
8260B		Trip Blank	1,2,3-Trichlorobenzene
8260B		Trip Blank	1,2,3-Trichloropropane
8260B		Trip Blank	1,2,4-Trichlorobenzene
8260B		Trip Blank	1,2,4-Trimethylbenzene
8260B		Trip Blank	1,2-Dibromo-3-Chloropropane
8260B		Trip Blank	1,2-Dibromoethane (EDB)
8260B		Trip Blank	1,2-Dichlorobenzene
8260B		Trip Blank	1,2-Dichloroethane (EDC)
8260B		Trip Blank	1,2-Dichloropropane
8260B		Trip Blank	1,3,5-Trimethylbenzene
8260B		Trip Blank	1,3-Dichlorobenzene
8260B		Trip Blank	1,3-Dichloropropane
8260B		Trip Blank	1,4-Dichlorobenzene
8260B		Trip Blank	1-Methylnaphthalene
8260B		Trip Blank	2,2-Dichloropropane
8260B		Trip Blank	2-Butanone
8260B		Trip Blank	2-Chlorotoluene
8260B		Trip Blank	2-Hexanone
8260B		Trip Blank	2-Methylnaphthalene
8260B		Trip Blank	4-Chlorotoluene
8260B		Trip Blank	4-Isopropyltoluene
8260B		Trip Blank	4-Methyl-2-pentanone
8260B		Trip Blank	Acetone
8260B		Trip Blank	Benzene
8260B		Trip Blank	Bromobenzene
8260B		Trip Blank	Bromodichloromethane
8260B		Trip Blank	Bromoform
8260B		Trip Blank	Bromomethane
8260B		Trip Blank	Carbon disulfide

Accreditation/Certification Summary

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

Job ID: 885-630-1

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

Accreditation/Certification Summary

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

Job ID: 885-630-1

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
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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	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
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

Accreditation/Certification Summary

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

Job ID: 885-630-1

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
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.

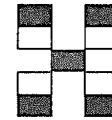
Analysis Method	Prep Method	Matrix	Analyte
504.1	504.1	Trip Blank	1,2-Dibromoethane
504.1	504.1	Water	1,2-Dibromoethane



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**



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	VOCs - EPA method 8260B	EDB - EPA method 504 1	TPH GRO and DRO - EPA method 8015B	Sulfate/Chloride - EPA method 200 7	Nitrate (as N) - EPA method 300 0	TDS - SM2540C	VOCs - EPA method 8021B	TPH GRO - EPA method 8015B
3/6/24	1532	W	FF Raw	2-vials 1 Ambient 2 splash	Various	YOGI	X	X	X	X	X	X		
	1558		FF Treated FF				X	X	X	X	X	X		
			Trip Blank				X	X	X	X	X	X		

3/6/24 1418 Relinquished by *[Signature]* Received by SEM Via GDO Date 3/6/24 Time 1418
 Date Time Relinquished by Received by Via Date Time

Remarks



885-630 COC

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: 885-630-1

Login Number: 630

List Number: 1

Creator: Robb, Kathleen

List Source: Eurofins Albuquerque

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/22/2024 1:32:06 PM

JOB DESCRIPTION

Former Y

JOB NUMBER

885-2074-1

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
Tiffany Shaw, Project Manager I
tiffany.shaw@et.eurofinsus.com
(505)345-3975



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Definitions/Glossary

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

Job ID: 885-2074-1

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.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

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

Case Narrative

Client: Daniel B. Stephens & Associates Inc.
Project: Former Y

Job ID: 885-2074-1

Job ID: 885-2074-1

Eurofins Albuquerque

Job Narrative 885-2074-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/29/2024 4:35 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 4.7°C.

Receipt Exceptions

The method requirement for no headspace was not met. The following sample was analyzed with headspace in the sample container(s): BW-7-20240329 (885-2074-5).

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: The continuing calibration verification (CCV) associated with batch 885-2722 recovered above the upper control limit for Di-n-octyl phthalate (Surr). 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 504.1_PREC: The following sample(s) was analyzed outside of analytical holding time due to necessary re-runs for over-range results. Samples are not drinking water/compliance; data is unaffected and reportable outside of 24 hour window. RW-3-20240326 (885-2074-2), RW-4-20240326 (885-2074-3), BW-5-20240329 (885-2074-4), BW-7-20240329 (885-2074-5), BW-7R-20240328 (885-2074-6), BW-8-20240329 (885-2074-7), MW-12-20240326 (885-2074-8), MW-16-20240326 (885-2074-14) and FY RAW (885-2074-17).

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 following samples were diluted due to the nature of the sample matrix: FY Treated EFF (885-2074-16) and FY RAW (885-2074-17). 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.

General Chemistry

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

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: RW-1-20240327

Lab Sample ID: 885-2074-1

Date Collected: 03/27/24 08:30

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/03/24 13:33	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/03/24 13:33	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			04/03/24 13:33	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/03/24 13:33	1
1,1-Dichloroethane	ND		1.0	ug/L			04/03/24 13:33	1
1,1-Dichloroethene	ND		1.0	ug/L			04/03/24 13:33	1
1,1-Dichloropropene	ND		1.0	ug/L			04/03/24 13:33	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/03/24 13:33	1
1,2,3-Trichloropropane	ND		2.0	ug/L			04/03/24 13:33	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/03/24 13:33	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/03/24 13:33	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/03/24 13:33	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			04/03/24 13:33	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/03/24 13:33	1
1,2-Dichloroethane (EDC)	15		1.0	ug/L			04/03/24 13:33	1
1,2-Dichloropropane	ND		1.0	ug/L			04/03/24 13:33	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/03/24 13:33	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/03/24 13:33	1
1,3-Dichloropropane	ND		1.0	ug/L			04/03/24 13:33	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/03/24 13:33	1
1-Methylnaphthalene	ND		4.0	ug/L			04/03/24 13:33	1
2,2-Dichloropropane	ND		2.0	ug/L			04/03/24 13:33	1
2-Butanone	ND		10	ug/L			04/03/24 13:33	1
2-Chlorotoluene	ND		1.0	ug/L			04/03/24 13:33	1
2-Hexanone	ND		10	ug/L			04/03/24 13:33	1
2-Methylnaphthalene	ND		4.0	ug/L			04/03/24 13:33	1
4-Chlorotoluene	ND		1.0	ug/L			04/03/24 13:33	1
4-Isopropyltoluene	ND		1.0	ug/L			04/03/24 13:33	1
4-Methyl-2-pentanone	ND		10	ug/L			04/03/24 13:33	1
Acetone	ND		10	ug/L			04/03/24 13:33	1
Benzene	ND		1.0	ug/L			04/03/24 13:33	1
Bromobenzene	ND		1.0	ug/L			04/03/24 13:33	1
Bromodichloromethane	ND		1.0	ug/L			04/03/24 13:33	1
Dibromochloromethane	ND		1.0	ug/L			04/03/24 13:33	1
Bromoform	ND		1.0	ug/L			04/03/24 13:33	1
Bromomethane	ND		3.0	ug/L			04/03/24 13:33	1
Carbon disulfide	ND		10	ug/L			04/03/24 13:33	1
Carbon tetrachloride	ND		1.0	ug/L			04/03/24 13:33	1
Chlorobenzene	ND		1.0	ug/L			04/03/24 13:33	1
Chloroethane	ND		2.0	ug/L			04/03/24 13:33	1
Chloroform	ND		1.0	ug/L			04/03/24 13:33	1
Chloromethane	ND		3.0	ug/L			04/03/24 13:33	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/03/24 13:33	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			04/03/24 13:33	1
Dibromomethane	ND		1.0	ug/L			04/03/24 13:33	1
Dichlorodifluoromethane	ND		1.0	ug/L			04/03/24 13:33	1
Ethylbenzene	ND		1.0	ug/L			04/03/24 13:33	1
Hexachlorobutadiene	ND		1.0	ug/L			04/03/24 13:33	1
Isopropylbenzene	ND		1.0	ug/L			04/03/24 13:33	1

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: RW-1-20240327

Lab Sample ID: 885-2074-1

Date Collected: 03/27/24 08:30

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			04/03/24 13:33	1
Methylene Chloride	ND		3.0	ug/L			04/03/24 13:33	1
n-Butylbenzene	ND		3.0	ug/L			04/03/24 13:33	1
N-Propylbenzene	ND		1.0	ug/L			04/03/24 13:33	1
Naphthalene	ND		2.0	ug/L			04/03/24 13:33	1
sec-Butylbenzene	ND		1.0	ug/L			04/03/24 13:33	1
Styrene	ND		1.0	ug/L			04/03/24 13:33	1
tert-Butylbenzene	ND		1.0	ug/L			04/03/24 13:33	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			04/03/24 13:33	1
Toluene	ND		1.0	ug/L			04/03/24 13:33	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/03/24 13:33	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			04/03/24 13:33	1
Trichloroethene (TCE)	ND		1.0	ug/L			04/03/24 13:33	1
Trichlorofluoromethane	ND		1.0	ug/L			04/03/24 13:33	1
Vinyl chloride	ND		1.0	ug/L			04/03/24 13:33	1
Xylenes, Total	ND		1.5	ug/L			04/03/24 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/03/24 13:33	1
Toluene-d8 (Surr)	92		70 - 130		04/03/24 13:33	1
4-Bromofluorobenzene (Surr)	86		70 - 130		04/03/24 13:33	1
Dibromofluoromethane (Surr)	123		70 - 130		04/03/24 13:33	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.14		0.0095	ug/L		04/02/24 09:39	04/02/24 20:15	1

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: RW-3-20240326

Lab Sample ID: 885-2074-2

Date Collected: 03/26/24 14:10

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/04/24 17:08	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/04/24 17:08	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			04/04/24 17:08	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/04/24 17:08	1
1,1-Dichloroethane	ND		1.0	ug/L			04/04/24 17:08	1
1,1-Dichloroethene	ND		1.0	ug/L			04/04/24 17:08	1
1,1-Dichloropropene	ND		1.0	ug/L			04/04/24 17:08	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/04/24 17:08	1
1,2,3-Trichloropropane	ND		2.0	ug/L			04/04/24 17:08	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/04/24 17:08	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/04/24 17:08	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/04/24 17:08	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			04/04/24 17:08	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/04/24 17:08	1
1,2-Dichloroethane (EDC)	2.7		1.0	ug/L			04/04/24 17:08	1
1,2-Dichloropropane	ND		1.0	ug/L			04/04/24 17:08	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/04/24 17:08	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/04/24 17:08	1
1,3-Dichloropropane	ND		1.0	ug/L			04/04/24 17:08	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/04/24 17:08	1
1-Methylnaphthalene	ND		4.0	ug/L			04/04/24 17:08	1
2,2-Dichloropropane	ND		2.0	ug/L			04/04/24 17:08	1
2-Butanone	ND		10	ug/L			04/04/24 17:08	1
2-Chlorotoluene	ND		1.0	ug/L			04/04/24 17:08	1
2-Hexanone	ND		10	ug/L			04/04/24 17:08	1
2-Methylnaphthalene	ND		4.0	ug/L			04/04/24 17:08	1
4-Chlorotoluene	ND		1.0	ug/L			04/04/24 17:08	1
4-Isopropyltoluene	ND		1.0	ug/L			04/04/24 17:08	1
4-Methyl-2-pentanone	ND		10	ug/L			04/04/24 17:08	1
Acetone	ND		10	ug/L			04/04/24 17:08	1
Benzene	ND		1.0	ug/L			04/04/24 17:08	1
Bromobenzene	ND		1.0	ug/L			04/04/24 17:08	1
Bromodichloromethane	ND		1.0	ug/L			04/04/24 17:08	1
Dibromochloromethane	ND		1.0	ug/L			04/04/24 17:08	1
Bromoform	ND		1.0	ug/L			04/04/24 17:08	1
Bromomethane	ND		3.0	ug/L			04/04/24 17:08	1
Carbon disulfide	ND		10	ug/L			04/04/24 17:08	1
Carbon tetrachloride	ND		1.0	ug/L			04/04/24 17:08	1
Chlorobenzene	ND		1.0	ug/L			04/04/24 17:08	1
Chloroethane	ND		2.0	ug/L			04/04/24 17:08	1
Chloroform	ND		1.0	ug/L			04/04/24 17:08	1
Chloromethane	ND		3.0	ug/L			04/04/24 17:08	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/04/24 17:08	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			04/04/24 17:08	1
Dibromomethane	ND		1.0	ug/L			04/04/24 17:08	1
Dichlorodifluoromethane	ND		1.0	ug/L			04/04/24 17:08	1
Ethylbenzene	ND		1.0	ug/L			04/04/24 17:08	1
Hexachlorobutadiene	ND		1.0	ug/L			04/04/24 17:08	1
Isopropylbenzene	ND		1.0	ug/L			04/04/24 17:08	1

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: RW-3-20240326

Lab Sample ID: 885-2074-2

Date Collected: 03/26/24 14:10

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			04/04/24 17:08	1
Methylene Chloride	ND		3.0	ug/L			04/04/24 17:08	1
n-Butylbenzene	ND		3.0	ug/L			04/04/24 17:08	1
N-Propylbenzene	ND		1.0	ug/L			04/04/24 17:08	1
Naphthalene	ND		2.0	ug/L			04/04/24 17:08	1
sec-Butylbenzene	ND		1.0	ug/L			04/04/24 17:08	1
Styrene	ND		1.0	ug/L			04/04/24 17:08	1
tert-Butylbenzene	ND		1.0	ug/L			04/04/24 17:08	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			04/04/24 17:08	1
Toluene	ND		1.0	ug/L			04/04/24 17:08	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/04/24 17:08	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			04/04/24 17:08	1
Trichloroethene (TCE)	ND		1.0	ug/L			04/04/24 17:08	1
Trichlorofluoromethane	ND		1.0	ug/L			04/04/24 17:08	1
Vinyl chloride	ND		1.0	ug/L			04/04/24 17:08	1
Xylenes, Total	ND		1.5	ug/L			04/04/24 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/04/24 17:08	1
Toluene-d8 (Surr)	91		70 - 130		04/04/24 17:08	1
4-Bromofluorobenzene (Surr)	87		70 - 130		04/04/24 17:08	1
Dibromofluoromethane (Surr)	126		70 - 130		04/04/24 17:08	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.36	H	0.047	ug/L		04/02/24 09:39	04/03/24 15:01	5

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: RW-4-20240326

Lab Sample ID: 885-2074-3

Date Collected: 03/26/24 13:35

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20	ug/L			04/03/24 14:28	20
1,1,1-Trichloroethane	ND		20	ug/L			04/03/24 14:28	20
1,1,2,2-Tetrachloroethane	ND		40	ug/L			04/03/24 14:28	20
1,1,2-Trichloroethane	ND		20	ug/L			04/03/24 14:28	20
1,1-Dichloroethane	ND		20	ug/L			04/03/24 14:28	20
1,1-Dichloroethene	ND		20	ug/L			04/03/24 14:28	20
1,1-Dichloropropene	ND		20	ug/L			04/03/24 14:28	20
1,2,3-Trichlorobenzene	ND		20	ug/L			04/03/24 14:28	20
1,2,3-Trichloropropane	ND		40	ug/L			04/03/24 14:28	20
1,2,4-Trichlorobenzene	ND		20	ug/L			04/03/24 14:28	20
1,2,4-Trimethylbenzene	52		20	ug/L			04/03/24 14:28	20
1,2-Dibromo-3-Chloropropane	ND		40	ug/L			04/03/24 14:28	20
1,2-Dibromoethane (EDB)	33		20	ug/L			04/03/24 14:28	20
1,2-Dichlorobenzene	ND		20	ug/L			04/03/24 14:28	20
1,2-Dichloroethane (EDC)	130		20	ug/L			04/03/24 14:28	20
1,2-Dichloropropane	ND		20	ug/L			04/03/24 14:28	20
1,3,5-Trimethylbenzene	27		20	ug/L			04/03/24 14:28	20
1,3-Dichlorobenzene	ND		20	ug/L			04/03/24 14:28	20
1,3-Dichloropropane	ND		20	ug/L			04/03/24 14:28	20
1,4-Dichlorobenzene	ND		20	ug/L			04/03/24 14:28	20
1-Methylnaphthalene	ND		80	ug/L			04/03/24 14:28	20
2,2-Dichloropropane	ND		40	ug/L			04/03/24 14:28	20
2-Butanone	ND		200	ug/L			04/03/24 14:28	20
2-Chlorotoluene	ND		20	ug/L			04/03/24 14:28	20
2-Hexanone	ND		200	ug/L			04/03/24 14:28	20
2-Methylnaphthalene	ND		80	ug/L			04/03/24 14:28	20
4-Chlorotoluene	ND		20	ug/L			04/03/24 14:28	20
4-Isopropyltoluene	ND		20	ug/L			04/03/24 14:28	20
4-Methyl-2-pentanone	ND		200	ug/L			04/03/24 14:28	20
Acetone	ND		200	ug/L			04/03/24 14:28	20
Benzene	990		20	ug/L			04/03/24 14:28	20
Bromobenzene	ND		20	ug/L			04/03/24 14:28	20
Bromodichloromethane	ND		20	ug/L			04/03/24 14:28	20
Dibromochloromethane	ND		20	ug/L			04/03/24 14:28	20
Bromoform	ND		20	ug/L			04/03/24 14:28	20
Bromomethane	ND		60	ug/L			04/03/24 14:28	20
Carbon disulfide	ND		200	ug/L			04/03/24 14:28	20
Carbon tetrachloride	ND		20	ug/L			04/03/24 14:28	20
Chlorobenzene	ND		20	ug/L			04/03/24 14:28	20
Chloroethane	ND		40	ug/L			04/03/24 14:28	20
Chloroform	ND		20	ug/L			04/03/24 14:28	20
Chloromethane	ND		60	ug/L			04/03/24 14:28	20
cis-1,2-Dichloroethene	ND		20	ug/L			04/03/24 14:28	20
cis-1,3-Dichloropropene	ND		20	ug/L			04/03/24 14:28	20
Dibromomethane	ND		20	ug/L			04/03/24 14:28	20
Dichlorodifluoromethane	ND		20	ug/L			04/03/24 14:28	20
Ethylbenzene	27		20	ug/L			04/03/24 14:28	20
Hexachlorobutadiene	ND		20	ug/L			04/03/24 14:28	20
Isopropylbenzene	ND		20	ug/L			04/03/24 14:28	20

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: RW-4-20240326

Lab Sample ID: 885-2074-3

Date Collected: 03/26/24 13:35

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		20	ug/L			04/03/24 14:28	20
Methylene Chloride	ND		60	ug/L			04/03/24 14:28	20
n-Butylbenzene	ND		60	ug/L			04/03/24 14:28	20
N-Propylbenzene	ND		20	ug/L			04/03/24 14:28	20
Naphthalene	ND		40	ug/L			04/03/24 14:28	20
sec-Butylbenzene	ND		20	ug/L			04/03/24 14:28	20
Styrene	ND		20	ug/L			04/03/24 14:28	20
tert-Butylbenzene	ND		20	ug/L			04/03/24 14:28	20
Tetrachloroethene (PCE)	ND		20	ug/L			04/03/24 14:28	20
Toluene	960		20	ug/L			04/03/24 14:28	20
trans-1,2-Dichloroethene	ND		20	ug/L			04/03/24 14:28	20
trans-1,3-Dichloropropene	ND		20	ug/L			04/03/24 14:28	20
Trichloroethene (TCE)	ND		20	ug/L			04/03/24 14:28	20
Trichlorofluoromethane	ND		20	ug/L			04/03/24 14:28	20
Vinyl chloride	ND		20	ug/L			04/03/24 14:28	20
Xylenes, Total	560		30	ug/L			04/03/24 14:28	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/03/24 14:28	20
Toluene-d8 (Surr)	92		70 - 130		04/03/24 14:28	20
4-Bromofluorobenzene (Surr)	82		70 - 130		04/03/24 14:28	20
Dibromofluoromethane (Surr)	122		70 - 130		04/03/24 14:28	20

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	33	H	1.9	ug/L		04/02/24 09:39	04/03/24 15:18	200

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: BW-5-20240329

Lab Sample ID: 885-2074-4

Date Collected: 03/29/24 10:25

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20	ug/L			04/03/24 14:55	20
1,1,1-Trichloroethane	ND		20	ug/L			04/03/24 14:55	20
1,1,2,2-Tetrachloroethane	ND		40	ug/L			04/03/24 14:55	20
1,1,2-Trichloroethane	ND		20	ug/L			04/03/24 14:55	20
1,1-Dichloroethane	ND		20	ug/L			04/03/24 14:55	20
1,1-Dichloroethene	ND		20	ug/L			04/03/24 14:55	20
1,1-Dichloropropene	ND		20	ug/L			04/03/24 14:55	20
1,2,3-Trichlorobenzene	ND		20	ug/L			04/03/24 14:55	20
1,2,3-Trichloropropane	ND		40	ug/L			04/03/24 14:55	20
1,2,4-Trichlorobenzene	ND		20	ug/L			04/03/24 14:55	20
1,2,4-Trimethylbenzene	1300		20	ug/L			04/03/24 14:55	20
1,2-Dibromo-3-Chloropropane	ND		40	ug/L			04/03/24 14:55	20
1,2-Dibromoethane (EDB)	ND		20	ug/L			04/03/24 14:55	20
1,2-Dichlorobenzene	ND		20	ug/L			04/03/24 14:55	20
1,2-Dichloroethane (EDC)	21		20	ug/L			04/03/24 14:55	20
1,2-Dichloropropane	ND		20	ug/L			04/03/24 14:55	20
1,3,5-Trimethylbenzene	340		20	ug/L			04/03/24 14:55	20
1,3-Dichlorobenzene	ND		20	ug/L			04/03/24 14:55	20
1,3-Dichloropropane	ND		20	ug/L			04/03/24 14:55	20
1,4-Dichlorobenzene	ND		20	ug/L			04/03/24 14:55	20
1-Methylnaphthalene	250		80	ug/L			04/03/24 14:55	20
2,2-Dichloropropane	ND		40	ug/L			04/03/24 14:55	20
2-Butanone	ND		200	ug/L			04/03/24 14:55	20
2-Chlorotoluene	ND		20	ug/L			04/03/24 14:55	20
2-Hexanone	ND		200	ug/L			04/03/24 14:55	20
2-Methylnaphthalene	550		80	ug/L			04/03/24 14:55	20
4-Chlorotoluene	ND		20	ug/L			04/03/24 14:55	20
4-Isopropyltoluene	ND		20	ug/L			04/03/24 14:55	20
4-Methyl-2-pentanone	ND		200	ug/L			04/03/24 14:55	20
Acetone	ND		200	ug/L			04/03/24 14:55	20
Benzene	90		20	ug/L			04/03/24 14:55	20
Bromobenzene	ND		20	ug/L			04/03/24 14:55	20
Bromodichloromethane	ND		20	ug/L			04/03/24 14:55	20
Dibromochloromethane	ND		20	ug/L			04/03/24 14:55	20
Bromoform	ND		20	ug/L			04/03/24 14:55	20
Bromomethane	ND		60	ug/L			04/03/24 14:55	20
Carbon disulfide	ND		200	ug/L			04/03/24 14:55	20
Carbon tetrachloride	ND		20	ug/L			04/03/24 14:55	20
Chlorobenzene	ND		20	ug/L			04/03/24 14:55	20
Chloroethane	ND		40	ug/L			04/03/24 14:55	20
Chloroform	ND		20	ug/L			04/03/24 14:55	20
Chloromethane	ND		60	ug/L			04/03/24 14:55	20
cis-1,2-Dichloroethene	ND		20	ug/L			04/03/24 14:55	20
cis-1,3-Dichloropropene	ND		20	ug/L			04/03/24 14:55	20
Dibromomethane	ND		20	ug/L			04/03/24 14:55	20
Dichlorodifluoromethane	ND		20	ug/L			04/03/24 14:55	20
Ethylbenzene	88		20	ug/L			04/03/24 14:55	20
Hexachlorobutadiene	ND		20	ug/L			04/03/24 14:55	20
Isopropylbenzene	ND		20	ug/L			04/03/24 14:55	20

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Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: BW-5-20240329

Lab Sample ID: 885-2074-4

Date Collected: 03/29/24 10:25

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		20	ug/L			04/03/24 14:55	20
Methylene Chloride	ND		60	ug/L			04/03/24 14:55	20
n-Butylbenzene	ND		60	ug/L			04/03/24 14:55	20
N-Propylbenzene	ND		20	ug/L			04/03/24 14:55	20
Naphthalene	460		40	ug/L			04/03/24 14:55	20
sec-Butylbenzene	ND		20	ug/L			04/03/24 14:55	20
Styrene	ND		20	ug/L			04/03/24 14:55	20
tert-Butylbenzene	ND		20	ug/L			04/03/24 14:55	20
Tetrachloroethene (PCE)	ND		20	ug/L			04/03/24 14:55	20
Toluene	660		20	ug/L			04/03/24 14:55	20
trans-1,2-Dichloroethene	ND		20	ug/L			04/03/24 14:55	20
trans-1,3-Dichloropropene	ND		20	ug/L			04/03/24 14:55	20
Trichloroethene (TCE)	ND		20	ug/L			04/03/24 14:55	20
Trichlorofluoromethane	ND		20	ug/L			04/03/24 14:55	20
Vinyl chloride	ND		20	ug/L			04/03/24 14:55	20
Xylenes, Total	1800		30	ug/L			04/03/24 14:55	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/03/24 14:55	20
Toluene-d8 (Surr)	90		70 - 130		04/03/24 14:55	20
4-Bromofluorobenzene (Surr)	93		70 - 130		04/03/24 14:55	20
Dibromofluoromethane (Surr)	119		70 - 130		04/03/24 14:55	20

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	13	H	0.94	ug/L		04/02/24 09:52	04/03/24 15:35	100

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: BW-7-20240329

Lab Sample ID: 885-2074-5

Date Collected: 03/29/24 10:00

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	ug/L			04/03/24 15:22	2
1,1,1-Trichloroethane	ND		2.0	ug/L			04/03/24 15:22	2
1,1,2,2-Tetrachloroethane	ND		4.0	ug/L			04/03/24 15:22	2
1,1,2-Trichloroethane	ND		2.0	ug/L			04/03/24 15:22	2
1,1-Dichloroethane	ND		2.0	ug/L			04/03/24 15:22	2
1,1-Dichloroethene	ND		2.0	ug/L			04/03/24 15:22	2
1,1-Dichloropropene	ND		2.0	ug/L			04/03/24 15:22	2
1,2,3-Trichlorobenzene	ND		2.0	ug/L			04/03/24 15:22	2
1,2,3-Trichloropropane	ND		4.0	ug/L			04/03/24 15:22	2
1,2,4-Trichlorobenzene	ND		2.0	ug/L			04/03/24 15:22	2
1,2,4-Trimethylbenzene	ND		2.0	ug/L			04/03/24 15:22	2
1,2-Dibromo-3-Chloropropane	ND		4.0	ug/L			04/03/24 15:22	2
1,2-Dibromoethane (EDB)	ND		2.0	ug/L			04/03/24 15:22	2
1,2-Dichlorobenzene	ND		2.0	ug/L			04/03/24 15:22	2
1,2-Dichloroethane (EDC)	240		5.0	ug/L			04/04/24 17:36	5
1,2-Dichloropropane	ND		2.0	ug/L			04/03/24 15:22	2
1,3,5-Trimethylbenzene	ND		2.0	ug/L			04/03/24 15:22	2
1,3-Dichlorobenzene	ND		2.0	ug/L			04/03/24 15:22	2
1,3-Dichloropropane	ND		2.0	ug/L			04/03/24 15:22	2
1,4-Dichlorobenzene	ND		2.0	ug/L			04/03/24 15:22	2
1-Methylnaphthalene	ND		8.0	ug/L			04/03/24 15:22	2
2,2-Dichloropropane	ND		4.0	ug/L			04/03/24 15:22	2
2-Butanone	ND		20	ug/L			04/03/24 15:22	2
2-Chlorotoluene	ND		2.0	ug/L			04/03/24 15:22	2
2-Hexanone	ND		20	ug/L			04/03/24 15:22	2
2-Methylnaphthalene	ND		8.0	ug/L			04/03/24 15:22	2
4-Chlorotoluene	ND		2.0	ug/L			04/03/24 15:22	2
4-Isopropyltoluene	ND		2.0	ug/L			04/03/24 15:22	2
4-Methyl-2-pentanone	ND		20	ug/L			04/03/24 15:22	2
Acetone	ND		20	ug/L			04/03/24 15:22	2
Benzene	ND		2.0	ug/L			04/03/24 15:22	2
Bromobenzene	ND		2.0	ug/L			04/03/24 15:22	2
Bromodichloromethane	ND		2.0	ug/L			04/03/24 15:22	2
Dibromochloromethane	ND		2.0	ug/L			04/03/24 15:22	2
Bromoform	ND		2.0	ug/L			04/03/24 15:22	2
Bromomethane	ND		6.0	ug/L			04/03/24 15:22	2
Carbon disulfide	ND		20	ug/L			04/03/24 15:22	2
Carbon tetrachloride	ND		2.0	ug/L			04/03/24 15:22	2
Chlorobenzene	ND		2.0	ug/L			04/03/24 15:22	2
Chloroethane	ND		4.0	ug/L			04/03/24 15:22	2
Chloroform	ND		2.0	ug/L			04/03/24 15:22	2
Chloromethane	ND		6.0	ug/L			04/03/24 15:22	2
cis-1,2-Dichloroethene	ND		2.0	ug/L			04/03/24 15:22	2
cis-1,3-Dichloropropene	ND		2.0	ug/L			04/03/24 15:22	2
Dibromomethane	ND		2.0	ug/L			04/03/24 15:22	2
Dichlorodifluoromethane	ND		2.0	ug/L			04/03/24 15:22	2
Ethylbenzene	ND		2.0	ug/L			04/03/24 15:22	2
Hexachlorobutadiene	ND		2.0	ug/L			04/03/24 15:22	2
Isopropylbenzene	ND		2.0	ug/L			04/03/24 15:22	2

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: BW-7-20240329

Lab Sample ID: 885-2074-5

Date Collected: 03/29/24 10:00

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.0	ug/L			04/03/24 15:22	2
Methylene Chloride	ND		6.0	ug/L			04/03/24 15:22	2
n-Butylbenzene	ND		6.0	ug/L			04/03/24 15:22	2
N-Propylbenzene	ND		2.0	ug/L			04/03/24 15:22	2
Naphthalene	ND		4.0	ug/L			04/03/24 15:22	2
sec-Butylbenzene	ND		2.0	ug/L			04/03/24 15:22	2
Styrene	ND		2.0	ug/L			04/03/24 15:22	2
tert-Butylbenzene	ND		2.0	ug/L			04/03/24 15:22	2
Tetrachloroethene (PCE)	ND		2.0	ug/L			04/03/24 15:22	2
Toluene	ND		2.0	ug/L			04/03/24 15:22	2
trans-1,2-Dichloroethene	ND		2.0	ug/L			04/03/24 15:22	2
trans-1,3-Dichloropropene	ND		2.0	ug/L			04/03/24 15:22	2
Trichloroethene (TCE)	ND		2.0	ug/L			04/03/24 15:22	2
Trichlorofluoromethane	ND		2.0	ug/L			04/03/24 15:22	2
Vinyl chloride	ND		2.0	ug/L			04/03/24 15:22	2
Xylenes, Total	ND		3.0	ug/L			04/03/24 15:22	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		70 - 130		04/03/24 15:22	2
1,2-Dichloroethane-d4 (Surr)	117		70 - 130		04/04/24 17:36	5
Toluene-d8 (Surr)	93		70 - 130		04/03/24 15:22	2
4-Bromofluorobenzene (Surr)	88		70 - 130		04/03/24 15:22	2
Dibromofluoromethane (Surr)	124		70 - 130		04/03/24 15:22	2
Dibromofluoromethane (Surr)	133	S1+	70 - 130		04/04/24 17:36	5

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.36	H	0.048	ug/L		04/02/24 09:52	04/03/24 15:52	5

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: BW-7R-20240328

Lab Sample ID: 885-2074-6

Date Collected: 03/28/24 14:40

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	ug/L			04/04/24 18:03	2
1,1,1-Trichloroethane	ND		2.0	ug/L			04/04/24 18:03	2
1,1,2,2-Tetrachloroethane	ND		4.0	ug/L			04/04/24 18:03	2
1,1,2-Trichloroethane	ND		2.0	ug/L			04/04/24 18:03	2
1,1-Dichloroethane	ND		2.0	ug/L			04/04/24 18:03	2
1,1-Dichloroethene	ND		2.0	ug/L			04/04/24 18:03	2
1,1-Dichloropropene	ND		2.0	ug/L			04/04/24 18:03	2
1,2,3-Trichlorobenzene	ND		2.0	ug/L			04/04/24 18:03	2
1,2,3-Trichloropropane	ND		4.0	ug/L			04/04/24 18:03	2
1,2,4-Trichlorobenzene	ND		2.0	ug/L			04/04/24 18:03	2
1,2,4-Trimethylbenzene	ND		2.0	ug/L			04/04/24 18:03	2
1,2-Dibromo-3-Chloropropane	ND		4.0	ug/L			04/04/24 18:03	2
1,2-Dibromoethane (EDB)	3.9		2.0	ug/L			04/04/24 18:03	2
1,2-Dichlorobenzene	ND		2.0	ug/L			04/04/24 18:03	2
1,2-Dichloroethane (EDC)	190		2.0	ug/L			04/04/24 18:03	2
1,2-Dichloropropane	ND		2.0	ug/L			04/04/24 18:03	2
1,3,5-Trimethylbenzene	8.2		2.0	ug/L			04/04/24 18:03	2
1,3-Dichlorobenzene	ND		2.0	ug/L			04/04/24 18:03	2
1,3-Dichloropropane	ND		2.0	ug/L			04/04/24 18:03	2
1,4-Dichlorobenzene	ND		2.0	ug/L			04/04/24 18:03	2
1-Methylnaphthalene	ND		8.0	ug/L			04/04/24 18:03	2
2,2-Dichloropropane	ND		4.0	ug/L			04/04/24 18:03	2
2-Butanone	ND		20	ug/L			04/04/24 18:03	2
2-Chlorotoluene	ND		2.0	ug/L			04/04/24 18:03	2
2-Hexanone	ND		20	ug/L			04/04/24 18:03	2
2-Methylnaphthalene	ND		8.0	ug/L			04/04/24 18:03	2
4-Chlorotoluene	ND		2.0	ug/L			04/04/24 18:03	2
4-Isopropyltoluene	ND		2.0	ug/L			04/04/24 18:03	2
4-Methyl-2-pentanone	ND		20	ug/L			04/04/24 18:03	2
Acetone	ND		20	ug/L			04/04/24 18:03	2
Benzene	5.8		2.0	ug/L			04/04/24 18:03	2
Bromobenzene	ND		2.0	ug/L			04/04/24 18:03	2
Bromodichloromethane	ND		2.0	ug/L			04/04/24 18:03	2
Dibromochloromethane	ND		2.0	ug/L			04/04/24 18:03	2
Bromoform	ND		2.0	ug/L			04/04/24 18:03	2
Bromomethane	ND		6.0	ug/L			04/04/24 18:03	2
Carbon disulfide	ND		20	ug/L			04/04/24 18:03	2
Carbon tetrachloride	ND		2.0	ug/L			04/04/24 18:03	2
Chlorobenzene	ND		2.0	ug/L			04/04/24 18:03	2
Chloroethane	ND		4.0	ug/L			04/04/24 18:03	2
Chloroform	ND		2.0	ug/L			04/04/24 18:03	2
Chloromethane	ND		6.0	ug/L			04/04/24 18:03	2
cis-1,2-Dichloroethene	ND		2.0	ug/L			04/04/24 18:03	2
cis-1,3-Dichloropropene	ND		2.0	ug/L			04/04/24 18:03	2
Dibromomethane	ND		2.0	ug/L			04/04/24 18:03	2
Dichlorodifluoromethane	ND		2.0	ug/L			04/04/24 18:03	2
Ethylbenzene	ND		2.0	ug/L			04/04/24 18:03	2
Hexachlorobutadiene	ND		2.0	ug/L			04/04/24 18:03	2
Isopropylbenzene	ND		2.0	ug/L			04/04/24 18:03	2

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Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: BW-7R-20240328

Lab Sample ID: 885-2074-6

Date Collected: 03/28/24 14:40

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.0	ug/L			04/04/24 18:03	2
Methylene Chloride	ND		6.0	ug/L			04/04/24 18:03	2
n-Butylbenzene	ND		6.0	ug/L			04/04/24 18:03	2
N-Propylbenzene	ND		2.0	ug/L			04/04/24 18:03	2
Naphthalene	ND		4.0	ug/L			04/04/24 18:03	2
sec-Butylbenzene	ND		2.0	ug/L			04/04/24 18:03	2
Styrene	ND		2.0	ug/L			04/04/24 18:03	2
tert-Butylbenzene	ND		2.0	ug/L			04/04/24 18:03	2
Tetrachloroethene (PCE)	ND		2.0	ug/L			04/04/24 18:03	2
Toluene	ND		2.0	ug/L			04/04/24 18:03	2
trans-1,2-Dichloroethene	ND		2.0	ug/L			04/04/24 18:03	2
trans-1,3-Dichloropropene	ND		2.0	ug/L			04/04/24 18:03	2
Trichloroethene (TCE)	ND		2.0	ug/L			04/04/24 18:03	2
Trichlorofluoromethane	ND		2.0	ug/L			04/04/24 18:03	2
Vinyl chloride	ND		2.0	ug/L			04/04/24 18:03	2
Xylenes, Total	9.4		3.0	ug/L			04/04/24 18:03	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/04/24 18:03	2
Toluene-d8 (Surr)	93		70 - 130		04/04/24 18:03	2
4-Bromofluorobenzene (Surr)	88		70 - 130		04/04/24 18:03	2
Dibromofluoromethane (Surr)	124		70 - 130		04/04/24 18:03	2

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	3.3	H	0.19	ug/L		04/02/24 09:52	04/03/24 16:10	20

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: BW-8-20240329

Lab Sample ID: 885-2074-7

Date Collected: 03/29/24 10:55

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		50	ug/L			04/03/24 16:18	50
1,1,1-Trichloroethane	ND		50	ug/L			04/03/24 16:18	50
1,1,2,2-Tetrachloroethane	ND		100	ug/L			04/03/24 16:18	50
1,1,2-Trichloroethane	ND		50	ug/L			04/03/24 16:18	50
1,1-Dichloroethane	ND		50	ug/L			04/03/24 16:18	50
1,1-Dichloroethene	ND		50	ug/L			04/03/24 16:18	50
1,1-Dichloropropene	ND		50	ug/L			04/03/24 16:18	50
1,2,3-Trichlorobenzene	ND		50	ug/L			04/03/24 16:18	50
1,2,3-Trichloropropane	ND		100	ug/L			04/03/24 16:18	50
1,2,4-Trichlorobenzene	ND		50	ug/L			04/03/24 16:18	50
1,2,4-Trimethylbenzene	560		50	ug/L			04/03/24 16:18	50
1,2-Dibromo-3-Chloropropane	ND		100	ug/L			04/03/24 16:18	50
1,2-Dibromoethane (EDB)	ND		50	ug/L			04/03/24 16:18	50
1,2-Dichlorobenzene	ND		50	ug/L			04/03/24 16:18	50
1,2-Dichloroethane (EDC)	ND		20	ug/L			04/03/24 16:18	50
1,2-Dichloropropane	ND		50	ug/L			04/03/24 16:18	50
1,3,5-Trimethylbenzene	130		50	ug/L			04/03/24 16:18	50
1,3-Dichlorobenzene	ND		50	ug/L			04/03/24 16:18	50
1,3-Dichloropropane	ND		50	ug/L			04/03/24 16:18	50
1,4-Dichlorobenzene	ND		50	ug/L			04/03/24 16:18	50
1-Methylnaphthalene	ND		200	ug/L			04/03/24 16:18	50
2,2-Dichloropropane	ND		100	ug/L			04/03/24 16:18	50
2-Butanone	ND		500	ug/L			04/03/24 16:18	50
2-Chlorotoluene	ND		50	ug/L			04/03/24 16:18	50
2-Hexanone	ND		500	ug/L			04/03/24 16:18	50
2-Methylnaphthalene	ND		200	ug/L			04/03/24 16:18	50
4-Chlorotoluene	ND		50	ug/L			04/03/24 16:18	50
4-Isopropyltoluene	ND		50	ug/L			04/03/24 16:18	50
4-Methyl-2-pentanone	ND		500	ug/L			04/03/24 16:18	50
Acetone	ND		500	ug/L			04/03/24 16:18	50
Benzene	8000		500	ug/L			04/04/24 18:30	500
Bromobenzene	ND		50	ug/L			04/03/24 16:18	50
Bromodichloromethane	ND		50	ug/L			04/03/24 16:18	50
Dibromochloromethane	ND		50	ug/L			04/03/24 16:18	50
Bromoform	ND		50	ug/L			04/03/24 16:18	50
Bromomethane	ND		150	ug/L			04/03/24 16:18	50
Carbon disulfide	ND		500	ug/L			04/03/24 16:18	50
Carbon tetrachloride	ND		50	ug/L			04/03/24 16:18	50
Chlorobenzene	ND		50	ug/L			04/03/24 16:18	50
Chloroethane	ND		100	ug/L			04/03/24 16:18	50
Chloroform	ND		50	ug/L			04/03/24 16:18	50
Chloromethane	ND		150	ug/L			04/03/24 16:18	50
cis-1,2-Dichloroethene	ND		50	ug/L			04/03/24 16:18	50
cis-1,3-Dichloropropene	ND		50	ug/L			04/03/24 16:18	50
Dibromomethane	ND		50	ug/L			04/03/24 16:18	50
Dichlorodifluoromethane	ND		50	ug/L			04/03/24 16:18	50
Ethylbenzene	810		50	ug/L			04/03/24 16:18	50
Hexachlorobutadiene	ND		50	ug/L			04/03/24 16:18	50
Isopropylbenzene	ND		50	ug/L			04/03/24 16:18	50

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Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: BW-8-20240329

Lab Sample ID: 885-2074-7

Date Collected: 03/29/24 10:55

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		50	ug/L			04/03/24 16:18	50
Methylene Chloride	ND		150	ug/L			04/03/24 16:18	50
n-Butylbenzene	ND		150	ug/L			04/03/24 16:18	50
N-Propylbenzene	65		50	ug/L			04/03/24 16:18	50
Naphthalene	220		100	ug/L			04/03/24 16:18	50
sec-Butylbenzene	ND		50	ug/L			04/03/24 16:18	50
Styrene	ND		50	ug/L			04/03/24 16:18	50
tert-Butylbenzene	ND		50	ug/L			04/03/24 16:18	50
Tetrachloroethene (PCE)	ND		50	ug/L			04/03/24 16:18	50
Toluene	12000		500	ug/L			04/04/24 18:30	500
trans-1,2-Dichloroethene	ND		50	ug/L			04/03/24 16:18	50
trans-1,3-Dichloropropene	ND		50	ug/L			04/03/24 16:18	50
Trichloroethene (TCE)	ND		50	ug/L			04/03/24 16:18	50
Trichlorofluoromethane	ND		50	ug/L			04/03/24 16:18	50
Vinyl chloride	ND		50	ug/L			04/03/24 16:18	50
Xylenes, Total	4600		75	ug/L			04/03/24 16:18	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		04/03/24 16:18	50
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/04/24 18:30	500
Toluene-d8 (Surr)	93		70 - 130		04/03/24 16:18	50
Toluene-d8 (Surr)	96		70 - 130		04/04/24 18:30	500
4-Bromofluorobenzene (Surr)	89		70 - 130		04/03/24 16:18	50
4-Bromofluorobenzene (Surr)	83		70 - 130		04/04/24 18:30	500
Dibromofluoromethane (Surr)	119		70 - 130		04/03/24 16:18	50
Dibromofluoromethane (Surr)	126		70 - 130		04/04/24 18:30	500

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.53	H	0.047	ug/L		04/02/24 09:52	04/03/24 16:27	5

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: MW-12-20240326

Lab Sample ID: 885-2074-8

Date Collected: 03/26/24 15:00

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10	ug/L			04/03/24 16:45	10
1,1,1-Trichloroethane	ND		10	ug/L			04/03/24 16:45	10
1,1,2,2-Tetrachloroethane	ND		20	ug/L			04/03/24 16:45	10
1,1,2-Trichloroethane	ND		10	ug/L			04/03/24 16:45	10
1,1-Dichloroethane	ND		10	ug/L			04/03/24 16:45	10
1,1-Dichloroethene	ND		10	ug/L			04/03/24 16:45	10
1,1-Dichloropropene	ND		10	ug/L			04/03/24 16:45	10
1,2,3-Trichlorobenzene	ND		10	ug/L			04/03/24 16:45	10
1,2,3-Trichloropropane	ND		20	ug/L			04/03/24 16:45	10
1,2,4-Trichlorobenzene	ND		10	ug/L			04/03/24 16:45	10
1,2,4-Trimethylbenzene	ND		10	ug/L			04/03/24 16:45	10
1,2-Dibromo-3-Chloropropane	ND		20	ug/L			04/03/24 16:45	10
1,2-Dibromoethane (EDB)	ND		10	ug/L			04/03/24 16:45	10
1,2-Dichlorobenzene	ND		10	ug/L			04/03/24 16:45	10
1,2-Dichloroethane (EDC)	89		10	ug/L			04/03/24 16:45	10
1,2-Dichloropropane	ND		10	ug/L			04/03/24 16:45	10
1,3,5-Trimethylbenzene	ND		10	ug/L			04/03/24 16:45	10
1,3-Dichlorobenzene	ND		10	ug/L			04/03/24 16:45	10
1,3-Dichloropropane	ND		10	ug/L			04/03/24 16:45	10
1,4-Dichlorobenzene	ND		10	ug/L			04/03/24 16:45	10
1-Methylnaphthalene	ND		40	ug/L			04/03/24 16:45	10
2,2-Dichloropropane	ND		20	ug/L			04/03/24 16:45	10
2-Butanone	ND		100	ug/L			04/03/24 16:45	10
2-Chlorotoluene	ND		10	ug/L			04/03/24 16:45	10
2-Hexanone	ND		100	ug/L			04/03/24 16:45	10
2-Methylnaphthalene	ND		40	ug/L			04/03/24 16:45	10
4-Chlorotoluene	ND		10	ug/L			04/03/24 16:45	10
4-Isopropyltoluene	ND		10	ug/L			04/03/24 16:45	10
4-Methyl-2-pentanone	ND		100	ug/L			04/03/24 16:45	10
Acetone	ND		100	ug/L			04/03/24 16:45	10
Benzene	44		10	ug/L			04/03/24 16:45	10
Bromobenzene	ND		10	ug/L			04/03/24 16:45	10
Bromodichloromethane	ND		10	ug/L			04/03/24 16:45	10
Dibromochloromethane	ND		10	ug/L			04/03/24 16:45	10
Bromoform	ND		10	ug/L			04/03/24 16:45	10
Bromomethane	ND		30	ug/L			04/03/24 16:45	10
Carbon disulfide	ND		100	ug/L			04/03/24 16:45	10
Carbon tetrachloride	ND		10	ug/L			04/03/24 16:45	10
Chlorobenzene	ND		10	ug/L			04/03/24 16:45	10
Chloroethane	ND		20	ug/L			04/03/24 16:45	10
Chloroform	ND		10	ug/L			04/03/24 16:45	10
Chloromethane	ND		30	ug/L			04/03/24 16:45	10
cis-1,2-Dichloroethene	ND		10	ug/L			04/03/24 16:45	10
cis-1,3-Dichloropropene	ND		10	ug/L			04/03/24 16:45	10
Dibromomethane	ND		10	ug/L			04/03/24 16:45	10
Dichlorodifluoromethane	ND		10	ug/L			04/03/24 16:45	10
Ethylbenzene	ND		10	ug/L			04/03/24 16:45	10
Hexachlorobutadiene	ND		10	ug/L			04/03/24 16:45	10
Isopropylbenzene	ND		10	ug/L			04/03/24 16:45	10

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Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: MW-12-20240326

Lab Sample ID: 885-2074-8

Date Collected: 03/26/24 15:00

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		10	ug/L			04/03/24 16:45	10
Methylene Chloride	ND		30	ug/L			04/03/24 16:45	10
n-Butylbenzene	ND		30	ug/L			04/03/24 16:45	10
N-Propylbenzene	ND		10	ug/L			04/03/24 16:45	10
Naphthalene	ND		20	ug/L			04/03/24 16:45	10
sec-Butylbenzene	ND		10	ug/L			04/03/24 16:45	10
Styrene	ND		10	ug/L			04/03/24 16:45	10
tert-Butylbenzene	ND		10	ug/L			04/03/24 16:45	10
Tetrachloroethene (PCE)	ND		10	ug/L			04/03/24 16:45	10
Toluene	ND		10	ug/L			04/03/24 16:45	10
trans-1,2-Dichloroethene	ND		10	ug/L			04/03/24 16:45	10
trans-1,3-Dichloropropene	ND		10	ug/L			04/03/24 16:45	10
Trichloroethene (TCE)	ND		10	ug/L			04/03/24 16:45	10
Trichlorofluoromethane	ND		10	ug/L			04/03/24 16:45	10
Vinyl chloride	ND		10	ug/L			04/03/24 16:45	10
Xylenes, Total	20		15	ug/L			04/03/24 16:45	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/03/24 16:45	10
Toluene-d8 (Surr)	95		70 - 130		04/03/24 16:45	10
4-Bromofluorobenzene (Surr)	83		70 - 130		04/03/24 16:45	10
Dibromofluoromethane (Surr)	124		70 - 130		04/03/24 16:45	10

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	1.4	H	0.094	ug/L		04/02/24 09:54	04/03/24 16:44	10

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: MW-15-20240329

Lab Sample ID: 885-2074-9

Date Collected: 03/29/24 09:34

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/03/24 17:13	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/03/24 17:13	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			04/03/24 17:13	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/03/24 17:13	1
1,1-Dichloroethane	ND		1.0	ug/L			04/03/24 17:13	1
1,1-Dichloroethene	ND		1.0	ug/L			04/03/24 17:13	1
1,1-Dichloropropene	ND		1.0	ug/L			04/03/24 17:13	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/03/24 17:13	1
1,2,3-Trichloropropane	ND		2.0	ug/L			04/03/24 17:13	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/03/24 17:13	1
1,2,4-Trimethylbenzene	2.1		1.0	ug/L			04/03/24 17:13	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/03/24 17:13	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			04/03/24 17:13	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/03/24 17:13	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			04/03/24 17:13	1
1,2-Dichloropropane	ND		1.0	ug/L			04/03/24 17:13	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/03/24 17:13	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/03/24 17:13	1
1,3-Dichloropropane	ND		1.0	ug/L			04/03/24 17:13	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/03/24 17:13	1
1-Methylnaphthalene	ND		4.0	ug/L			04/03/24 17:13	1
2,2-Dichloropropane	ND		2.0	ug/L			04/03/24 17:13	1
2-Butanone	ND		10	ug/L			04/03/24 17:13	1
2-Chlorotoluene	ND		1.0	ug/L			04/03/24 17:13	1
2-Hexanone	ND		10	ug/L			04/03/24 17:13	1
2-Methylnaphthalene	ND		4.0	ug/L			04/03/24 17:13	1
4-Chlorotoluene	ND		1.0	ug/L			04/03/24 17:13	1
4-Isopropyltoluene	ND		1.0	ug/L			04/03/24 17:13	1
4-Methyl-2-pentanone	ND		10	ug/L			04/03/24 17:13	1
Acetone	ND		10	ug/L			04/03/24 17:13	1
Benzene	33		1.0	ug/L			04/03/24 17:13	1
Bromobenzene	ND		1.0	ug/L			04/03/24 17:13	1
Bromodichloromethane	ND		1.0	ug/L			04/03/24 17:13	1
Dibromochloromethane	ND		1.0	ug/L			04/03/24 17:13	1
Bromoform	ND		1.0	ug/L			04/03/24 17:13	1
Bromomethane	ND		3.0	ug/L			04/03/24 17:13	1
Carbon disulfide	ND		10	ug/L			04/03/24 17:13	1
Carbon tetrachloride	ND		1.0	ug/L			04/03/24 17:13	1
Chlorobenzene	ND		1.0	ug/L			04/03/24 17:13	1
Chloroethane	ND		2.0	ug/L			04/03/24 17:13	1
Chloroform	ND		1.0	ug/L			04/03/24 17:13	1
Chloromethane	ND		3.0	ug/L			04/03/24 17:13	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/03/24 17:13	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			04/03/24 17:13	1
Dibromomethane	ND		1.0	ug/L			04/03/24 17:13	1
Dichlorodifluoromethane	ND		1.0	ug/L			04/03/24 17:13	1
Ethylbenzene	ND		1.0	ug/L			04/03/24 17:13	1
Hexachlorobutadiene	ND		1.0	ug/L			04/03/24 17:13	1
Isopropylbenzene	ND		1.0	ug/L			04/03/24 17:13	1

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Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: MW-15-20240329

Lab Sample ID: 885-2074-9

Date Collected: 03/29/24 09:34

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			04/03/24 17:13	1
Methylene Chloride	ND		3.0	ug/L			04/03/24 17:13	1
n-Butylbenzene	ND		3.0	ug/L			04/03/24 17:13	1
N-Propylbenzene	ND		1.0	ug/L			04/03/24 17:13	1
Naphthalene	ND		2.0	ug/L			04/03/24 17:13	1
sec-Butylbenzene	ND		1.0	ug/L			04/03/24 17:13	1
Styrene	ND		1.0	ug/L			04/03/24 17:13	1
tert-Butylbenzene	ND		1.0	ug/L			04/03/24 17:13	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			04/03/24 17:13	1
Toluene	ND		1.0	ug/L			04/03/24 17:13	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/03/24 17:13	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			04/03/24 17:13	1
Trichloroethene (TCE)	ND		1.0	ug/L			04/03/24 17:13	1
Trichlorofluoromethane	ND		1.0	ug/L			04/03/24 17:13	1
Vinyl chloride	ND		1.0	ug/L			04/03/24 17:13	1
Xylenes, Total	3.8		1.5	ug/L			04/03/24 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		70 - 130		04/03/24 17:13	1
Toluene-d8 (Surr)	93		70 - 130		04/03/24 17:13	1
4-Bromofluorobenzene (Surr)	82		70 - 130		04/03/24 17:13	1
Dibromofluoromethane (Surr)	125		70 - 130		04/03/24 17:13	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.087		0.0095	ug/L		04/02/24 09:54	04/02/24 22:48	1

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: MW-14-20240329

Lab Sample ID: 885-2074-10

Date Collected: 03/29/24 09:15

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/03/24 17:40	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/03/24 17:40	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			04/03/24 17:40	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/03/24 17:40	1
1,1-Dichloroethane	ND		1.0	ug/L			04/03/24 17:40	1
1,1-Dichloroethene	ND		1.0	ug/L			04/03/24 17:40	1
1,1-Dichloropropene	ND		1.0	ug/L			04/03/24 17:40	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/03/24 17:40	1
1,2,3-Trichloropropane	ND		2.0	ug/L			04/03/24 17:40	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/03/24 17:40	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/03/24 17:40	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/03/24 17:40	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			04/03/24 17:40	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/03/24 17:40	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			04/03/24 17:40	1
1,2-Dichloropropane	ND		1.0	ug/L			04/03/24 17:40	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/03/24 17:40	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/03/24 17:40	1
1,3-Dichloropropane	ND		1.0	ug/L			04/03/24 17:40	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/03/24 17:40	1
1-Methylnaphthalene	ND		4.0	ug/L			04/03/24 17:40	1
2,2-Dichloropropane	ND		2.0	ug/L			04/03/24 17:40	1
2-Butanone	ND		10	ug/L			04/03/24 17:40	1
2-Chlorotoluene	ND		1.0	ug/L			04/03/24 17:40	1
2-Hexanone	ND		10	ug/L			04/03/24 17:40	1
2-Methylnaphthalene	ND		4.0	ug/L			04/03/24 17:40	1
4-Chlorotoluene	ND		1.0	ug/L			04/03/24 17:40	1
4-Isopropyltoluene	ND		1.0	ug/L			04/03/24 17:40	1
4-Methyl-2-pentanone	ND		10	ug/L			04/03/24 17:40	1
Acetone	ND		10	ug/L			04/03/24 17:40	1
Benzene	ND		1.0	ug/L			04/03/24 17:40	1
Bromobenzene	ND		1.0	ug/L			04/03/24 17:40	1
Bromodichloromethane	ND		1.0	ug/L			04/03/24 17:40	1
Dibromochloromethane	ND		1.0	ug/L			04/03/24 17:40	1
Bromoform	ND		1.0	ug/L			04/03/24 17:40	1
Bromomethane	ND		3.0	ug/L			04/03/24 17:40	1
Carbon disulfide	ND		10	ug/L			04/03/24 17:40	1
Carbon tetrachloride	ND		1.0	ug/L			04/03/24 17:40	1
Chlorobenzene	ND		1.0	ug/L			04/03/24 17:40	1
Chloroethane	ND		2.0	ug/L			04/03/24 17:40	1
Chloroform	ND		1.0	ug/L			04/03/24 17:40	1
Chloromethane	ND		3.0	ug/L			04/03/24 17:40	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/03/24 17:40	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			04/03/24 17:40	1
Dibromomethane	ND		1.0	ug/L			04/03/24 17:40	1
Dichlorodifluoromethane	ND		1.0	ug/L			04/03/24 17:40	1
Ethylbenzene	ND		1.0	ug/L			04/03/24 17:40	1
Hexachlorobutadiene	ND		1.0	ug/L			04/03/24 17:40	1
Isopropylbenzene	ND		1.0	ug/L			04/03/24 17:40	1

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: MW-14-20240329

Lab Sample ID: 885-2074-10

Date Collected: 03/29/24 09:15

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			04/03/24 17:40	1
Methylene Chloride	ND		3.0	ug/L			04/03/24 17:40	1
n-Butylbenzene	ND		3.0	ug/L			04/03/24 17:40	1
N-Propylbenzene	ND		1.0	ug/L			04/03/24 17:40	1
Naphthalene	ND		2.0	ug/L			04/03/24 17:40	1
sec-Butylbenzene	ND		1.0	ug/L			04/03/24 17:40	1
Styrene	ND		1.0	ug/L			04/03/24 17:40	1
tert-Butylbenzene	ND		1.0	ug/L			04/03/24 17:40	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			04/03/24 17:40	1
Toluene	ND		1.0	ug/L			04/03/24 17:40	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/03/24 17:40	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			04/03/24 17:40	1
Trichloroethene (TCE)	ND		1.0	ug/L			04/03/24 17:40	1
Trichlorofluoromethane	ND		1.0	ug/L			04/03/24 17:40	1
Vinyl chloride	ND		1.0	ug/L			04/03/24 17:40	1
Xylenes, Total	ND		1.5	ug/L			04/03/24 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/03/24 17:40	1
Toluene-d8 (Surr)	92		70 - 130		04/03/24 17:40	1
4-Bromofluorobenzene (Surr)	86		70 - 130		04/03/24 17:40	1
Dibromofluoromethane (Surr)	122		70 - 130		04/03/24 17:40	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.0095	ug/L		04/02/24 10:14	04/03/24 03:02	1

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: MW-17-20240329

Lab Sample ID: 885-2074-11

Date Collected: 03/29/24 09:45

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/03/24 18:07	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/03/24 18:07	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			04/03/24 18:07	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/03/24 18:07	1
1,1-Dichloroethane	ND		1.0	ug/L			04/03/24 18:07	1
1,1-Dichloroethene	ND		1.0	ug/L			04/03/24 18:07	1
1,1-Dichloropropene	ND		1.0	ug/L			04/03/24 18:07	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/03/24 18:07	1
1,2,3-Trichloropropane	ND		2.0	ug/L			04/03/24 18:07	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/03/24 18:07	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/03/24 18:07	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/03/24 18:07	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			04/03/24 18:07	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/03/24 18:07	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			04/03/24 18:07	1
1,2-Dichloropropane	ND		1.0	ug/L			04/03/24 18:07	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/03/24 18:07	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/03/24 18:07	1
1,3-Dichloropropane	ND		1.0	ug/L			04/03/24 18:07	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/03/24 18:07	1
1-Methylnaphthalene	ND		4.0	ug/L			04/03/24 18:07	1
2,2-Dichloropropane	ND		2.0	ug/L			04/03/24 18:07	1
2-Butanone	ND		10	ug/L			04/03/24 18:07	1
2-Chlorotoluene	ND		1.0	ug/L			04/03/24 18:07	1
2-Hexanone	ND		10	ug/L			04/03/24 18:07	1
2-Methylnaphthalene	ND		4.0	ug/L			04/03/24 18:07	1
4-Chlorotoluene	ND		1.0	ug/L			04/03/24 18:07	1
4-Isopropyltoluene	ND		1.0	ug/L			04/03/24 18:07	1
4-Methyl-2-pentanone	ND		10	ug/L			04/03/24 18:07	1
Acetone	ND		10	ug/L			04/03/24 18:07	1
Benzene	ND		1.0	ug/L			04/03/24 18:07	1
Bromobenzene	ND		1.0	ug/L			04/03/24 18:07	1
Bromodichloromethane	ND		1.0	ug/L			04/03/24 18:07	1
Dibromochloromethane	ND		1.0	ug/L			04/03/24 18:07	1
Bromoform	ND		1.0	ug/L			04/03/24 18:07	1
Bromomethane	ND		3.0	ug/L			04/03/24 18:07	1
Carbon disulfide	ND		10	ug/L			04/03/24 18:07	1
Carbon tetrachloride	ND		1.0	ug/L			04/03/24 18:07	1
Chlorobenzene	ND		1.0	ug/L			04/03/24 18:07	1
Chloroethane	ND		2.0	ug/L			04/03/24 18:07	1
Chloroform	ND		1.0	ug/L			04/03/24 18:07	1
Chloromethane	ND		3.0	ug/L			04/03/24 18:07	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/03/24 18:07	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			04/03/24 18:07	1
Dibromomethane	ND		1.0	ug/L			04/03/24 18:07	1
Dichlorodifluoromethane	ND		1.0	ug/L			04/03/24 18:07	1
Ethylbenzene	ND		1.0	ug/L			04/03/24 18:07	1
Hexachlorobutadiene	ND		1.0	ug/L			04/03/24 18:07	1
Isopropylbenzene	ND		1.0	ug/L			04/03/24 18:07	1

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: MW-17-20240329

Lab Sample ID: 885-2074-11

Date Collected: 03/29/24 09:45

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			04/03/24 18:07	1
Methylene Chloride	ND		3.0	ug/L			04/03/24 18:07	1
n-Butylbenzene	ND		3.0	ug/L			04/03/24 18:07	1
N-Propylbenzene	ND		1.0	ug/L			04/03/24 18:07	1
Naphthalene	ND		2.0	ug/L			04/03/24 18:07	1
sec-Butylbenzene	ND		1.0	ug/L			04/03/24 18:07	1
Styrene	ND		1.0	ug/L			04/03/24 18:07	1
tert-Butylbenzene	ND		1.0	ug/L			04/03/24 18:07	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			04/03/24 18:07	1
Toluene	ND		1.0	ug/L			04/03/24 18:07	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/03/24 18:07	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			04/03/24 18:07	1
Trichloroethene (TCE)	ND		1.0	ug/L			04/03/24 18:07	1
Trichlorofluoromethane	ND		1.0	ug/L			04/03/24 18:07	1
Vinyl chloride	ND		1.0	ug/L			04/03/24 18:07	1
Xylenes, Total	ND		1.5	ug/L			04/03/24 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		04/03/24 18:07	1
Toluene-d8 (Surr)	91		70 - 130		04/03/24 18:07	1
4-Bromofluorobenzene (Surr)	82		70 - 130		04/03/24 18:07	1
Dibromofluoromethane (Surr)	125		70 - 130		04/03/24 18:07	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.0096	ug/L		04/02/24 10:14	04/03/24 03:36	1

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: MW-13-20240326

Lab Sample ID: 885-2074-12

Date Collected: 03/26/24 15:52

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	ug/L			04/03/24 18:35	2
1,1,1-Trichloroethane	ND		2.0	ug/L			04/03/24 18:35	2
1,1,2,2-Tetrachloroethane	ND		4.0	ug/L			04/03/24 18:35	2
1,1,2-Trichloroethane	ND		2.0	ug/L			04/03/24 18:35	2
1,1-Dichloroethane	ND		2.0	ug/L			04/03/24 18:35	2
1,1-Dichloroethene	ND		2.0	ug/L			04/03/24 18:35	2
1,1-Dichloropropene	ND		2.0	ug/L			04/03/24 18:35	2
1,2,3-Trichlorobenzene	ND		2.0	ug/L			04/03/24 18:35	2
1,2,3-Trichloropropane	ND		4.0	ug/L			04/03/24 18:35	2
1,2,4-Trichlorobenzene	ND		2.0	ug/L			04/03/24 18:35	2
1,2,4-Trimethylbenzene	8.0		2.0	ug/L			04/03/24 18:35	2
1,2-Dibromo-3-Chloropropane	ND		4.0	ug/L			04/03/24 18:35	2
1,2-Dibromoethane (EDB)	ND		2.0	ug/L			04/03/24 18:35	2
1,2-Dichlorobenzene	ND		2.0	ug/L			04/03/24 18:35	2
1,2-Dichloroethane (EDC)	110		2.0	ug/L			04/03/24 18:35	2
1,2-Dichloropropane	ND		2.0	ug/L			04/03/24 18:35	2
1,3,5-Trimethylbenzene	9.7		2.0	ug/L			04/03/24 18:35	2
1,3-Dichlorobenzene	ND		2.0	ug/L			04/03/24 18:35	2
1,3-Dichloropropane	ND		2.0	ug/L			04/03/24 18:35	2
1,4-Dichlorobenzene	ND		2.0	ug/L			04/03/24 18:35	2
1-Methylnaphthalene	ND		8.0	ug/L			04/03/24 18:35	2
2,2-Dichloropropane	ND		4.0	ug/L			04/03/24 18:35	2
2-Butanone	ND		20	ug/L			04/03/24 18:35	2
2-Chlorotoluene	ND		2.0	ug/L			04/03/24 18:35	2
2-Hexanone	ND		20	ug/L			04/03/24 18:35	2
2-Methylnaphthalene	ND		8.0	ug/L			04/03/24 18:35	2
4-Chlorotoluene	ND		2.0	ug/L			04/03/24 18:35	2
4-Isopropyltoluene	ND		2.0	ug/L			04/03/24 18:35	2
4-Methyl-2-pentanone	ND		20	ug/L			04/03/24 18:35	2
Acetone	ND		20	ug/L			04/03/24 18:35	2
Benzene	190		2.0	ug/L			04/03/24 18:35	2
Bromobenzene	ND		2.0	ug/L			04/03/24 18:35	2
Bromodichloromethane	ND		2.0	ug/L			04/03/24 18:35	2
Dibromochloromethane	ND		2.0	ug/L			04/03/24 18:35	2
Bromoform	ND		2.0	ug/L			04/03/24 18:35	2
Bromomethane	ND		6.0	ug/L			04/03/24 18:35	2
Carbon disulfide	ND		20	ug/L			04/03/24 18:35	2
Carbon tetrachloride	ND		2.0	ug/L			04/03/24 18:35	2
Chlorobenzene	ND		2.0	ug/L			04/03/24 18:35	2
Chloroethane	ND		4.0	ug/L			04/03/24 18:35	2
Chloroform	ND		2.0	ug/L			04/03/24 18:35	2
Chloromethane	ND		6.0	ug/L			04/03/24 18:35	2
cis-1,2-Dichloroethene	ND		2.0	ug/L			04/03/24 18:35	2
cis-1,3-Dichloropropene	ND		2.0	ug/L			04/03/24 18:35	2
Dibromomethane	ND		2.0	ug/L			04/03/24 18:35	2
Dichlorodifluoromethane	ND		2.0	ug/L			04/03/24 18:35	2
Ethylbenzene	ND		2.0	ug/L			04/03/24 18:35	2
Hexachlorobutadiene	ND		2.0	ug/L			04/03/24 18:35	2
Isopropylbenzene	ND		2.0	ug/L			04/03/24 18:35	2

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Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: MW-13-20240326

Lab Sample ID: 885-2074-12

Date Collected: 03/26/24 15:52

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.0	ug/L			04/03/24 18:35	2
Methylene Chloride	ND		6.0	ug/L			04/03/24 18:35	2
n-Butylbenzene	ND		6.0	ug/L			04/03/24 18:35	2
N-Propylbenzene	ND		2.0	ug/L			04/03/24 18:35	2
Naphthalene	ND		4.0	ug/L			04/03/24 18:35	2
sec-Butylbenzene	ND		2.0	ug/L			04/03/24 18:35	2
Styrene	ND		2.0	ug/L			04/03/24 18:35	2
tert-Butylbenzene	ND		2.0	ug/L			04/03/24 18:35	2
Tetrachloroethene (PCE)	ND		2.0	ug/L			04/03/24 18:35	2
Toluene	ND		2.0	ug/L			04/03/24 18:35	2
trans-1,2-Dichloroethene	ND		2.0	ug/L			04/03/24 18:35	2
trans-1,3-Dichloropropene	ND		2.0	ug/L			04/03/24 18:35	2
Trichloroethene (TCE)	ND		2.0	ug/L			04/03/24 18:35	2
Trichlorofluoromethane	ND		2.0	ug/L			04/03/24 18:35	2
Vinyl chloride	ND		2.0	ug/L			04/03/24 18:35	2
Xylenes, Total	33		3.0	ug/L			04/03/24 18:35	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/03/24 18:35	2
Toluene-d8 (Surr)	96		70 - 130		04/03/24 18:35	2
4-Bromofluorobenzene (Surr)	85		70 - 130		04/03/24 18:35	2
Dibromofluoromethane (Surr)	120		70 - 130		04/03/24 18:35	2

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.064		0.0095	ug/L		04/02/24 10:14	04/03/24 04:10	1

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: DTA-EFF

Lab Sample ID: 885-2074-13

Date Collected: 03/27/24 10:30

Matrix: Air

Date Received: 03/29/24 16:35

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	ug/L			04/03/24 10:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 412		04/03/24 10:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.13		0.10	ug/L			04/03/24 10:43	1
Ethylbenzene	ND		0.10	ug/L			04/03/24 10:43	1
Toluene	ND		0.10	ug/L			04/03/24 10:43	1
Xylenes, Total	ND		0.20	ug/L			04/03/24 10:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130		04/03/24 10:43	1

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: MW-16-20240326

Lab Sample ID: 885-2074-14

Date Collected: 03/26/24 15:17

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	ug/L			04/03/24 19:30	2
1,1,1-Trichloroethane	ND		2.0	ug/L			04/03/24 19:30	2
1,1,2,2-Tetrachloroethane	ND		4.0	ug/L			04/03/24 19:30	2
1,1,2-Trichloroethane	ND		2.0	ug/L			04/03/24 19:30	2
1,1-Dichloroethane	ND		2.0	ug/L			04/03/24 19:30	2
1,1-Dichloroethene	ND		2.0	ug/L			04/03/24 19:30	2
1,1-Dichloropropene	ND		2.0	ug/L			04/03/24 19:30	2
1,2,3-Trichlorobenzene	ND		2.0	ug/L			04/03/24 19:30	2
1,2,3-Trichloropropane	ND		4.0	ug/L			04/03/24 19:30	2
1,2,4-Trichlorobenzene	ND		2.0	ug/L			04/03/24 19:30	2
1,2,4-Trimethylbenzene	ND		2.0	ug/L			04/03/24 19:30	2
1,2-Dibromo-3-Chloropropane	ND		4.0	ug/L			04/03/24 19:30	2
1,2-Dibromoethane (EDB)	ND		2.0	ug/L			04/03/24 19:30	2
1,2-Dichlorobenzene	ND		2.0	ug/L			04/03/24 19:30	2
1,2-Dichloroethane (EDC)	97		2.0	ug/L			04/03/24 19:30	2
1,2-Dichloropropane	ND		2.0	ug/L			04/03/24 19:30	2
1,3,5-Trimethylbenzene	ND		2.0	ug/L			04/03/24 19:30	2
1,3-Dichlorobenzene	ND		2.0	ug/L			04/03/24 19:30	2
1,3-Dichloropropane	ND		2.0	ug/L			04/03/24 19:30	2
1,4-Dichlorobenzene	ND		2.0	ug/L			04/03/24 19:30	2
1-Methylnaphthalene	ND		8.0	ug/L			04/03/24 19:30	2
2,2-Dichloropropane	ND		4.0	ug/L			04/03/24 19:30	2
2-Butanone	ND		20	ug/L			04/03/24 19:30	2
2-Chlorotoluene	ND		2.0	ug/L			04/03/24 19:30	2
2-Hexanone	ND		20	ug/L			04/03/24 19:30	2
2-Methylnaphthalene	ND		8.0	ug/L			04/03/24 19:30	2
4-Chlorotoluene	ND		2.0	ug/L			04/03/24 19:30	2
4-Isopropyltoluene	ND		2.0	ug/L			04/03/24 19:30	2
4-Methyl-2-pentanone	ND		20	ug/L			04/03/24 19:30	2
Acetone	ND		20	ug/L			04/03/24 19:30	2
Benzene	640		20	ug/L			04/03/24 19:02	20
Bromobenzene	ND		2.0	ug/L			04/03/24 19:30	2
Bromodichloromethane	ND		2.0	ug/L			04/03/24 19:30	2
Dibromochloromethane	ND		2.0	ug/L			04/03/24 19:30	2
Bromoform	ND		2.0	ug/L			04/03/24 19:30	2
Bromomethane	ND		6.0	ug/L			04/03/24 19:30	2
Carbon disulfide	ND		20	ug/L			04/03/24 19:30	2
Carbon tetrachloride	ND		2.0	ug/L			04/03/24 19:30	2
Chlorobenzene	ND		2.0	ug/L			04/03/24 19:30	2
Chloroethane	ND		4.0	ug/L			04/03/24 19:30	2
Chloroform	ND		2.0	ug/L			04/03/24 19:30	2
Chloromethane	ND		6.0	ug/L			04/03/24 19:30	2
cis-1,2-Dichloroethene	ND		2.0	ug/L			04/03/24 19:30	2
cis-1,3-Dichloropropene	ND		2.0	ug/L			04/03/24 19:30	2
Dibromomethane	ND		2.0	ug/L			04/03/24 19:30	2
Dichlorodifluoromethane	ND		2.0	ug/L			04/03/24 19:30	2
Ethylbenzene	ND		2.0	ug/L			04/03/24 19:30	2
Hexachlorobutadiene	ND		2.0	ug/L			04/03/24 19:30	2
Isopropylbenzene	2.0		2.0	ug/L			04/03/24 19:30	2

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Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: MW-16-20240326

Lab Sample ID: 885-2074-14

Date Collected: 03/26/24 15:17

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		2.0	ug/L			04/03/24 19:30	2
Methylene Chloride	ND		6.0	ug/L			04/03/24 19:30	2
n-Butylbenzene	ND		6.0	ug/L			04/03/24 19:30	2
N-Propylbenzene	ND		2.0	ug/L			04/03/24 19:30	2
Naphthalene	ND		4.0	ug/L			04/03/24 19:30	2
sec-Butylbenzene	ND		2.0	ug/L			04/03/24 19:30	2
Styrene	ND		2.0	ug/L			04/03/24 19:30	2
tert-Butylbenzene	ND		2.0	ug/L			04/03/24 19:30	2
Tetrachloroethene (PCE)	ND		2.0	ug/L			04/03/24 19:30	2
Toluene	ND		2.0	ug/L			04/03/24 19:30	2
trans-1,2-Dichloroethene	ND		2.0	ug/L			04/03/24 19:30	2
trans-1,3-Dichloropropene	ND		2.0	ug/L			04/03/24 19:30	2
Trichloroethene (TCE)	ND		2.0	ug/L			04/03/24 19:30	2
Trichlorofluoromethane	ND		2.0	ug/L			04/03/24 19:30	2
Vinyl chloride	ND		2.0	ug/L			04/03/24 19:30	2
Xylenes, Total	8.8		3.0	ug/L			04/03/24 19:30	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		04/03/24 19:02	20
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/03/24 19:30	2
Toluene-d8 (Surr)	89		70 - 130		04/03/24 19:30	2
4-Bromofluorobenzene (Surr)	88		70 - 130		04/03/24 19:30	2
Dibromofluoromethane (Surr)	123		70 - 130		04/03/24 19:02	20
Dibromofluoromethane (Surr)	120		70 - 130		04/03/24 19:30	2

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.49	H	0.048	ug/L		04/02/24 10:14	04/03/24 17:01	5

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: BW-4-20240329

Lab Sample ID: 885-2074-15

Date Collected: 03/29/24 10:38

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/03/24 19:57	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/03/24 19:57	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			04/03/24 19:57	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/03/24 19:57	1
1,1-Dichloroethane	ND		1.0	ug/L			04/03/24 19:57	1
1,1-Dichloroethene	ND		1.0	ug/L			04/03/24 19:57	1
1,1-Dichloropropene	ND		1.0	ug/L			04/03/24 19:57	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/03/24 19:57	1
1,2,3-Trichloropropane	ND		2.0	ug/L			04/03/24 19:57	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/03/24 19:57	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/03/24 19:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/03/24 19:57	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			04/03/24 19:57	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/03/24 19:57	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			04/03/24 19:57	1
1,2-Dichloropropane	ND		1.0	ug/L			04/03/24 19:57	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/03/24 19:57	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/03/24 19:57	1
1,3-Dichloropropane	ND		1.0	ug/L			04/03/24 19:57	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/03/24 19:57	1
1-Methylnaphthalene	ND		4.0	ug/L			04/03/24 19:57	1
2,2-Dichloropropane	ND		2.0	ug/L			04/03/24 19:57	1
2-Butanone	ND		10	ug/L			04/03/24 19:57	1
2-Chlorotoluene	ND		1.0	ug/L			04/03/24 19:57	1
2-Hexanone	ND		10	ug/L			04/03/24 19:57	1
2-Methylnaphthalene	ND		4.0	ug/L			04/03/24 19:57	1
4-Chlorotoluene	ND		1.0	ug/L			04/03/24 19:57	1
4-Isopropyltoluene	ND		1.0	ug/L			04/03/24 19:57	1
4-Methyl-2-pentanone	ND		10	ug/L			04/03/24 19:57	1
Acetone	ND		10	ug/L			04/03/24 19:57	1
Benzene	ND		1.0	ug/L			04/03/24 19:57	1
Bromobenzene	ND		1.0	ug/L			04/03/24 19:57	1
Bromodichloromethane	ND		1.0	ug/L			04/03/24 19:57	1
Dibromochloromethane	ND		1.0	ug/L			04/03/24 19:57	1
Bromoform	ND		1.0	ug/L			04/03/24 19:57	1
Bromomethane	ND		3.0	ug/L			04/03/24 19:57	1
Carbon disulfide	ND		10	ug/L			04/03/24 19:57	1
Carbon tetrachloride	ND		1.0	ug/L			04/03/24 19:57	1
Chlorobenzene	ND		1.0	ug/L			04/03/24 19:57	1
Chloroethane	ND		2.0	ug/L			04/03/24 19:57	1
Chloroform	ND		1.0	ug/L			04/03/24 19:57	1
Chloromethane	ND		3.0	ug/L			04/03/24 19:57	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/03/24 19:57	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			04/03/24 19:57	1
Dibromomethane	ND		1.0	ug/L			04/03/24 19:57	1
Dichlorodifluoromethane	ND		1.0	ug/L			04/03/24 19:57	1
Ethylbenzene	ND		1.0	ug/L			04/03/24 19:57	1
Hexachlorobutadiene	ND		1.0	ug/L			04/03/24 19:57	1
Isopropylbenzene	ND		1.0	ug/L			04/03/24 19:57	1

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Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: BW-4-20240329

Lab Sample ID: 885-2074-15

Date Collected: 03/29/24 10:38

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			04/03/24 19:57	1
Methylene Chloride	ND		3.0	ug/L			04/03/24 19:57	1
n-Butylbenzene	ND		3.0	ug/L			04/03/24 19:57	1
N-Propylbenzene	ND		1.0	ug/L			04/03/24 19:57	1
Naphthalene	ND		2.0	ug/L			04/03/24 19:57	1
sec-Butylbenzene	ND		1.0	ug/L			04/03/24 19:57	1
Styrene	ND		1.0	ug/L			04/03/24 19:57	1
tert-Butylbenzene	ND		1.0	ug/L			04/03/24 19:57	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			04/03/24 19:57	1
Toluene	ND		1.0	ug/L			04/03/24 19:57	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/03/24 19:57	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			04/03/24 19:57	1
Trichloroethene (TCE)	ND		1.0	ug/L			04/03/24 19:57	1
Trichlorofluoromethane	ND		1.0	ug/L			04/03/24 19:57	1
Vinyl chloride	ND		1.0	ug/L			04/03/24 19:57	1
Xylenes, Total	ND		1.5	ug/L			04/03/24 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		04/03/24 19:57	1
Toluene-d8 (Surr)	90		70 - 130		04/03/24 19:57	1
4-Bromofluorobenzene (Surr)	82		70 - 130		04/03/24 19:57	1
Dibromofluoromethane (Surr)	123		70 - 130		04/03/24 19:57	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.0095	ug/L		04/02/24 10:14	04/03/24 04:43	1

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: FY Treated EFF

Lab Sample ID: 885-2074-16

Date Collected: 03/27/24 10:00

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/03/24 20:25	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/03/24 20:25	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			04/03/24 20:25	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/03/24 20:25	1
1,1-Dichloroethane	ND		1.0	ug/L			04/03/24 20:25	1
1,1-Dichloroethene	ND		1.0	ug/L			04/03/24 20:25	1
1,1-Dichloropropene	ND		1.0	ug/L			04/03/24 20:25	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/03/24 20:25	1
1,2,3-Trichloropropane	ND		2.0	ug/L			04/03/24 20:25	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/03/24 20:25	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/03/24 20:25	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/03/24 20:25	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			04/03/24 20:25	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/03/24 20:25	1
1,2-Dichloroethane (EDC)	1.1		1.0	ug/L			04/03/24 20:25	1
1,2-Dichloropropane	ND		1.0	ug/L			04/03/24 20:25	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/03/24 20:25	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/03/24 20:25	1
1,3-Dichloropropane	ND		1.0	ug/L			04/03/24 20:25	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/03/24 20:25	1
1-Methylnaphthalene	ND		4.0	ug/L			04/03/24 20:25	1
2,2-Dichloropropane	ND		2.0	ug/L			04/03/24 20:25	1
2-Butanone	ND		10	ug/L			04/03/24 20:25	1
2-Chlorotoluene	ND		1.0	ug/L			04/03/24 20:25	1
2-Hexanone	ND		10	ug/L			04/03/24 20:25	1
2-Methylnaphthalene	ND		4.0	ug/L			04/03/24 20:25	1
4-Chlorotoluene	ND		1.0	ug/L			04/03/24 20:25	1
4-Isopropyltoluene	ND		1.0	ug/L			04/03/24 20:25	1
4-Methyl-2-pentanone	ND		10	ug/L			04/03/24 20:25	1
Acetone	ND		10	ug/L			04/03/24 20:25	1
Benzene	ND		1.0	ug/L			04/03/24 20:25	1
Bromobenzene	ND		1.0	ug/L			04/03/24 20:25	1
Bromodichloromethane	ND		1.0	ug/L			04/03/24 20:25	1
Dibromochloromethane	ND		1.0	ug/L			04/03/24 20:25	1
Bromoform	ND		1.0	ug/L			04/03/24 20:25	1
Bromomethane	ND		3.0	ug/L			04/03/24 20:25	1
Carbon disulfide	ND		10	ug/L			04/03/24 20:25	1
Carbon tetrachloride	ND		1.0	ug/L			04/03/24 20:25	1
Chlorobenzene	ND		1.0	ug/L			04/03/24 20:25	1
Chloroethane	ND		2.0	ug/L			04/03/24 20:25	1
Chloroform	ND		1.0	ug/L			04/03/24 20:25	1
Chloromethane	ND		3.0	ug/L			04/03/24 20:25	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/03/24 20:25	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			04/03/24 20:25	1
Dibromomethane	ND		1.0	ug/L			04/03/24 20:25	1
Dichlorodifluoromethane	ND		1.0	ug/L			04/03/24 20:25	1
Ethylbenzene	ND		1.0	ug/L			04/03/24 20:25	1
Hexachlorobutadiene	ND		1.0	ug/L			04/03/24 20:25	1
Isopropylbenzene	ND		1.0	ug/L			04/03/24 20:25	1

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Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: FY Treated EFF

Lab Sample ID: 885-2074-16

Date Collected: 03/27/24 10:00

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			04/03/24 20:25	1
Methylene Chloride	ND		3.0	ug/L			04/03/24 20:25	1
n-Butylbenzene	ND		3.0	ug/L			04/03/24 20:25	1
N-Propylbenzene	ND		1.0	ug/L			04/03/24 20:25	1
Naphthalene	ND		2.0	ug/L			04/03/24 20:25	1
sec-Butylbenzene	ND		1.0	ug/L			04/03/24 20:25	1
Styrene	ND		1.0	ug/L			04/03/24 20:25	1
tert-Butylbenzene	ND		1.0	ug/L			04/03/24 20:25	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			04/03/24 20:25	1
Toluene	ND		1.0	ug/L			04/03/24 20:25	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/03/24 20:25	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			04/03/24 20:25	1
Trichloroethene (TCE)	ND		1.0	ug/L			04/03/24 20:25	1
Trichlorofluoromethane	ND		1.0	ug/L			04/03/24 20:25	1
Vinyl chloride	ND		1.0	ug/L			04/03/24 20:25	1
Xylenes, Total	ND		1.5	ug/L			04/03/24 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		04/03/24 20:25	1
Toluene-d8 (Surr)	96		70 - 130		04/03/24 20:25	1
4-Bromofluorobenzene (Surr)	85		70 - 130		04/03/24 20:25	1
Dibromofluoromethane (Surr)	123		70 - 130		04/03/24 20:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050	mg/L			04/01/24 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 270		04/01/24 12:56	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.18		0.0096	ug/L		04/02/24 10:14	04/03/24 05:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	mg/L		04/03/24 09:31	04/03/24 13:43	1
Motor Oil Range Organics [C28-C40]	ND		5.0	mg/L		04/03/24 09:31	04/03/24 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	109		46 - 159		04/03/24 09:31	04/03/24 13:43	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78		5.0	mg/L			04/01/24 16:24	10
Sulfate	41		5.0	mg/L			04/01/24 16:24	10
Nitrate Nitrite as N	1.9		1.0	mg/L			04/01/24 23:28	5

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	510		50	mg/L			04/02/24 11:29	1

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Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: FY RAW

Lab Sample ID: 885-2074-17

Date Collected: 03/27/24 09:38

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/04/24 18:58	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/04/24 18:58	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			04/04/24 18:58	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/04/24 18:58	1
1,1-Dichloroethane	ND		1.0	ug/L			04/04/24 18:58	1
1,1-Dichloroethene	ND		1.0	ug/L			04/04/24 18:58	1
1,1-Dichloropropene	ND		1.0	ug/L			04/04/24 18:58	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/04/24 18:58	1
1,2,3-Trichloropropane	ND		2.0	ug/L			04/04/24 18:58	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/04/24 18:58	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/04/24 18:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/04/24 18:58	1
1,2-Dibromoethane (EDB)	6.8		1.0	ug/L			04/04/24 18:58	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/04/24 18:58	1
1,2-Dichloroethane (EDC)	91		1.0	ug/L			04/04/24 18:58	1
1,2-Dichloropropane	ND		1.0	ug/L			04/04/24 18:58	1
1,3,5-Trimethylbenzene	5.2		1.0	ug/L			04/04/24 18:58	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/04/24 18:58	1
1,3-Dichloropropane	ND		1.0	ug/L			04/04/24 18:58	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/04/24 18:58	1
1-Methylnaphthalene	ND		4.0	ug/L			04/04/24 18:58	1
2,2-Dichloropropane	ND		2.0	ug/L			04/04/24 18:58	1
2-Butanone	ND		10	ug/L			04/04/24 18:58	1
2-Chlorotoluene	ND		1.0	ug/L			04/04/24 18:58	1
2-Hexanone	ND		10	ug/L			04/04/24 18:58	1
2-Methylnaphthalene	ND		4.0	ug/L			04/04/24 18:58	1
4-Chlorotoluene	ND		1.0	ug/L			04/04/24 18:58	1
4-Isopropyltoluene	ND		1.0	ug/L			04/04/24 18:58	1
4-Methyl-2-pentanone	ND		10	ug/L			04/04/24 18:58	1
Acetone	ND		10	ug/L			04/04/24 18:58	1
Benzene	130		10	ug/L			04/05/24 12:35	10
Bromobenzene	ND		1.0	ug/L			04/04/24 18:58	1
Bromodichloromethane	ND		1.0	ug/L			04/04/24 18:58	1
Dibromochloromethane	ND		1.0	ug/L			04/04/24 18:58	1
Bromoform	ND		1.0	ug/L			04/04/24 18:58	1
Bromomethane	ND		3.0	ug/L			04/04/24 18:58	1
Carbon disulfide	ND		10	ug/L			04/04/24 18:58	1
Carbon tetrachloride	ND		1.0	ug/L			04/04/24 18:58	1
Chlorobenzene	ND		1.0	ug/L			04/04/24 18:58	1
Chloroethane	ND		2.0	ug/L			04/04/24 18:58	1
Chloroform	ND		1.0	ug/L			04/04/24 18:58	1
Chloromethane	ND		3.0	ug/L			04/04/24 18:58	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/04/24 18:58	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			04/04/24 18:58	1
Dibromomethane	ND		1.0	ug/L			04/04/24 18:58	1
Dichlorodifluoromethane	ND		1.0	ug/L			04/04/24 18:58	1
Ethylbenzene	ND		1.0	ug/L			04/04/24 18:58	1
Hexachlorobutadiene	ND		1.0	ug/L			04/04/24 18:58	1
Isopropylbenzene	ND		1.0	ug/L			04/04/24 18:58	1

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: FY RAW

Lab Sample ID: 885-2074-17

Date Collected: 03/27/24 09:38

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			04/04/24 18:58	1
Methylene Chloride	ND		3.0	ug/L			04/04/24 18:58	1
n-Butylbenzene	ND		3.0	ug/L			04/04/24 18:58	1
N-Propylbenzene	ND		1.0	ug/L			04/04/24 18:58	1
Naphthalene	2.6		2.0	ug/L			04/04/24 18:58	1
sec-Butylbenzene	ND		1.0	ug/L			04/04/24 18:58	1
Styrene	ND		1.0	ug/L			04/04/24 18:58	1
tert-Butylbenzene	ND		1.0	ug/L			04/04/24 18:58	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			04/04/24 18:58	1
Toluene	24		1.0	ug/L			04/04/24 18:58	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/04/24 18:58	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			04/04/24 18:58	1
Trichloroethene (TCE)	ND		1.0	ug/L			04/04/24 18:58	1
Trichlorofluoromethane	ND		1.0	ug/L			04/04/24 18:58	1
Vinyl chloride	ND		1.0	ug/L			04/04/24 18:58	1
Xylenes, Total	35		1.5	ug/L			04/04/24 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/04/24 18:58	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 130		04/05/24 12:35	10
Toluene-d8 (Surr)	92		70 - 130		04/04/24 18:58	1
4-Bromofluorobenzene (Surr)	83		70 - 130		04/04/24 18:58	1
Dibromofluoromethane (Surr)	117		70 - 130		04/04/24 18:58	1
Dibromofluoromethane (Surr)	128		70 - 130		04/05/24 12:35	10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.71		0.050	mg/L			04/01/24 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		15 - 270		04/01/24 13:20	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	5.9	H	0.47	ug/L		04/02/24 10:14	04/03/24 17:18	50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	mg/L		04/03/24 09:31	04/03/24 13:56	1
Motor Oil Range Organics [C28-C40]	ND		5.0	mg/L		04/03/24 09:31	04/03/24 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		46 - 159		04/03/24 09:31	04/03/24 13:56

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77		5.0	mg/L			04/01/24 16:49	10
Sulfate	41		5.0	mg/L			04/01/24 16:49	10
Nitrate Nitrite as N	2.0		1.0	mg/L			04/01/24 23:41	5

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Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: FY RAW

Lab Sample ID: 885-2074-17

Date Collected: 03/27/24 09:38

Matrix: Water

Date Received: 03/29/24 16:35

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	510		100	mg/L			04/02/24 11:29	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: Trip Blank

Lab Sample ID: 885-2074-18

Date Collected: 03/26/24 00:00

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/04/24 20:20	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/04/24 20:20	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			04/04/24 20:20	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/04/24 20:20	1
1,1-Dichloroethane	ND		1.0	ug/L			04/04/24 20:20	1
1,1-Dichloroethene	ND		1.0	ug/L			04/04/24 20:20	1
1,1-Dichloropropene	ND		1.0	ug/L			04/04/24 20:20	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/04/24 20:20	1
1,2,3-Trichloropropane	ND		2.0	ug/L			04/04/24 20:20	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/04/24 20:20	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/04/24 20:20	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/04/24 20:20	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			04/04/24 20:20	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/04/24 20:20	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			04/04/24 20:20	1
1,2-Dichloropropane	ND		1.0	ug/L			04/04/24 20:20	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/04/24 20:20	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/04/24 20:20	1
1,3-Dichloropropane	ND		1.0	ug/L			04/04/24 20:20	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/04/24 20:20	1
1-Methylnaphthalene	ND		4.0	ug/L			04/04/24 20:20	1
2,2-Dichloropropane	ND		2.0	ug/L			04/04/24 20:20	1
2-Butanone	ND		10	ug/L			04/04/24 20:20	1
2-Chlorotoluene	ND		1.0	ug/L			04/04/24 20:20	1
2-Hexanone	ND		10	ug/L			04/04/24 20:20	1
2-Methylnaphthalene	ND		4.0	ug/L			04/04/24 20:20	1
4-Chlorotoluene	ND		1.0	ug/L			04/04/24 20:20	1
4-Isopropyltoluene	ND		1.0	ug/L			04/04/24 20:20	1
4-Methyl-2-pentanone	ND		10	ug/L			04/04/24 20:20	1
Acetone	ND		10	ug/L			04/04/24 20:20	1
Benzene	ND		1.0	ug/L			04/04/24 20:20	1
Bromobenzene	ND		1.0	ug/L			04/04/24 20:20	1
Bromodichloromethane	ND		1.0	ug/L			04/04/24 20:20	1
Dibromochloromethane	ND		1.0	ug/L			04/04/24 20:20	1
Bromoform	ND		1.0	ug/L			04/04/24 20:20	1
Bromomethane	ND		3.0	ug/L			04/04/24 20:20	1
Carbon disulfide	ND		10	ug/L			04/04/24 20:20	1
Carbon tetrachloride	ND		1.0	ug/L			04/04/24 20:20	1
Chlorobenzene	ND		1.0	ug/L			04/04/24 20:20	1
Chloroethane	ND		2.0	ug/L			04/04/24 20:20	1
Chloroform	ND		1.0	ug/L			04/04/24 20:20	1
Chloromethane	ND		3.0	ug/L			04/04/24 20:20	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/04/24 20:20	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			04/04/24 20:20	1
Dibromomethane	ND		1.0	ug/L			04/04/24 20:20	1
Dichlorodifluoromethane	ND		1.0	ug/L			04/04/24 20:20	1
Ethylbenzene	ND		1.0	ug/L			04/04/24 20:20	1
Hexachlorobutadiene	ND		1.0	ug/L			04/04/24 20:20	1
Isopropylbenzene	ND		1.0	ug/L			04/04/24 20:20	1

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Client Sample Results

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

Job ID: 885-2074-1

Client Sample ID: Trip Blank

Lab Sample ID: 885-2074-18

Date Collected: 03/26/24 00:00

Matrix: Water

Date Received: 03/29/24 16:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			04/04/24 20:20	1
Methylene Chloride	ND		3.0	ug/L			04/04/24 20:20	1
n-Butylbenzene	ND		3.0	ug/L			04/04/24 20:20	1
N-Propylbenzene	ND		1.0	ug/L			04/04/24 20:20	1
Naphthalene	ND		2.0	ug/L			04/04/24 20:20	1
sec-Butylbenzene	ND		1.0	ug/L			04/04/24 20:20	1
Styrene	ND		1.0	ug/L			04/04/24 20:20	1
tert-Butylbenzene	ND		1.0	ug/L			04/04/24 20:20	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			04/04/24 20:20	1
Toluene	ND		1.0	ug/L			04/04/24 20:20	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/04/24 20:20	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			04/04/24 20:20	1
Trichloroethene (TCE)	ND		1.0	ug/L			04/04/24 20:20	1
Trichlorofluoromethane	ND		1.0	ug/L			04/04/24 20:20	1
Vinyl chloride	ND		1.0	ug/L			04/04/24 20:20	1
Xylenes, Total	ND		1.5	ug/L			04/04/24 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		04/04/24 20:20	1
Toluene-d8 (Surr)	93		70 - 130		04/04/24 20:20	1
4-Bromofluorobenzene (Surr)	87		70 - 130		04/04/24 20:20	1
Dibromofluoromethane (Surr)	127		70 - 130		04/04/24 20:20	1

QC Sample Results

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

Job ID: 885-2074-1

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

Lab Sample ID: MB 885-2761/26
Matrix: Water
Analysis Batch: 2761

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/03/24 09:53	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/03/24 09:53	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			04/03/24 09:53	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/03/24 09:53	1
1,1-Dichloroethane	ND		1.0	ug/L			04/03/24 09:53	1
1,1-Dichloroethene	ND		1.0	ug/L			04/03/24 09:53	1
1,1-Dichloropropene	ND		1.0	ug/L			04/03/24 09:53	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/03/24 09:53	1
1,2,3-Trichloropropane	ND		2.0	ug/L			04/03/24 09:53	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/03/24 09:53	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/03/24 09:53	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/03/24 09:53	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			04/03/24 09:53	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/03/24 09:53	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			04/03/24 09:53	1
1,2-Dichloropropane	ND		1.0	ug/L			04/03/24 09:53	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/03/24 09:53	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/03/24 09:53	1
1,3-Dichloropropane	ND		1.0	ug/L			04/03/24 09:53	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/03/24 09:53	1
1-Methylnaphthalene	ND		4.0	ug/L			04/03/24 09:53	1
2,2-Dichloropropane	ND		2.0	ug/L			04/03/24 09:53	1
2-Butanone	ND		10	ug/L			04/03/24 09:53	1
2-Chlorotoluene	ND		1.0	ug/L			04/03/24 09:53	1
2-Hexanone	ND		10	ug/L			04/03/24 09:53	1
2-Methylnaphthalene	ND		4.0	ug/L			04/03/24 09:53	1
4-Chlorotoluene	ND		1.0	ug/L			04/03/24 09:53	1
4-Isopropyltoluene	ND		1.0	ug/L			04/03/24 09:53	1
4-Methyl-2-pentanone	ND		10	ug/L			04/03/24 09:53	1
Acetone	ND		10	ug/L			04/03/24 09:53	1
Benzene	ND		1.0	ug/L			04/03/24 09:53	1
Bromobenzene	ND		1.0	ug/L			04/03/24 09:53	1
Bromodichloromethane	ND		1.0	ug/L			04/03/24 09:53	1
Dibromochloromethane	ND		1.0	ug/L			04/03/24 09:53	1
Bromoform	ND		1.0	ug/L			04/03/24 09:53	1
Bromomethane	ND		3.0	ug/L			04/03/24 09:53	1
Carbon disulfide	ND		10	ug/L			04/03/24 09:53	1
Carbon tetrachloride	ND		1.0	ug/L			04/03/24 09:53	1
Chlorobenzene	ND		1.0	ug/L			04/03/24 09:53	1
Chloroethane	ND		2.0	ug/L			04/03/24 09:53	1
Chloroform	ND		1.0	ug/L			04/03/24 09:53	1
Chloromethane	ND		3.0	ug/L			04/03/24 09:53	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/03/24 09:53	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			04/03/24 09:53	1
Dibromomethane	ND		1.0	ug/L			04/03/24 09:53	1
Dichlorodifluoromethane	ND		1.0	ug/L			04/03/24 09:53	1
Ethylbenzene	ND		1.0	ug/L			04/03/24 09:53	1
Hexachlorobutadiene	ND		1.0	ug/L			04/03/24 09:53	1

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QC Sample Results

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

Job ID: 885-2074-1

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

Lab Sample ID: MB 885-2761/26
Matrix: Water
Analysis Batch: 2761

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	ug/L			04/03/24 09:53	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			04/03/24 09:53	1
Methylene Chloride	ND		3.0	ug/L			04/03/24 09:53	1
n-Butylbenzene	ND		3.0	ug/L			04/03/24 09:53	1
N-Propylbenzene	ND		1.0	ug/L			04/03/24 09:53	1
Naphthalene	ND		2.0	ug/L			04/03/24 09:53	1
sec-Butylbenzene	ND		1.0	ug/L			04/03/24 09:53	1
Styrene	ND		1.0	ug/L			04/03/24 09:53	1
tert-Butylbenzene	ND		1.0	ug/L			04/03/24 09:53	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			04/03/24 09:53	1
Toluene	ND		1.0	ug/L			04/03/24 09:53	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/03/24 09:53	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			04/03/24 09:53	1
Trichloroethene (TCE)	ND		1.0	ug/L			04/03/24 09:53	1
Trichlorofluoromethane	ND		1.0	ug/L			04/03/24 09:53	1
Vinyl chloride	ND		1.0	ug/L			04/03/24 09:53	1
Xylenes, Total	ND		1.5	ug/L			04/03/24 09:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/03/24 09:53	1
Toluene-d8 (Surr)	96		70 - 130		04/03/24 09:53	1
4-Bromofluorobenzene (Surr)	86		70 - 130		04/03/24 09:53	1
Dibromofluoromethane (Surr)	117		70 - 130		04/03/24 09:53	1

Lab Sample ID: LCS 885-2761/25
Matrix: Water
Analysis Batch: 2761

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	19.5		ug/L		97	70 - 130
Benzene	20.1	21.6		ug/L		108	70 - 130
Chlorobenzene	20.1	17.8		ug/L		89	70 - 130
Toluene	20.2	18.7		ug/L		93	70 - 130
Trichloroethene (TCE)	20.2	20.0		ug/L		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	86		70 - 130
Dibromofluoromethane (Surr)	113		70 - 130

Lab Sample ID: MB 885-2809/16
Matrix: Water
Analysis Batch: 2809

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/04/24 16:41	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/04/24 16:41	1

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QC Sample Results

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

Job ID: 885-2074-1

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

Lab Sample ID: MB 885-2809/16
Matrix: Water
Analysis Batch: 2809

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			04/04/24 16:41	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/04/24 16:41	1
1,1-Dichloroethane	ND		1.0	ug/L			04/04/24 16:41	1
1,1-Dichloroethene	ND		1.0	ug/L			04/04/24 16:41	1
1,1-Dichloropropene	ND		1.0	ug/L			04/04/24 16:41	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/04/24 16:41	1
1,2,3-Trichloropropane	ND		2.0	ug/L			04/04/24 16:41	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/04/24 16:41	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/04/24 16:41	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/04/24 16:41	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			04/04/24 16:41	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/04/24 16:41	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			04/04/24 16:41	1
1,2-Dichloropropane	ND		1.0	ug/L			04/04/24 16:41	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/04/24 16:41	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/04/24 16:41	1
1,3-Dichloropropane	ND		1.0	ug/L			04/04/24 16:41	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/04/24 16:41	1
1-Methylnaphthalene	ND		4.0	ug/L			04/04/24 16:41	1
2,2-Dichloropropane	ND		2.0	ug/L			04/04/24 16:41	1
2-Butanone	ND		10	ug/L			04/04/24 16:41	1
2-Chlorotoluene	ND		1.0	ug/L			04/04/24 16:41	1
2-Hexanone	ND		10	ug/L			04/04/24 16:41	1
2-Methylnaphthalene	ND		4.0	ug/L			04/04/24 16:41	1
4-Chlorotoluene	ND		1.0	ug/L			04/04/24 16:41	1
4-Isopropyltoluene	ND		1.0	ug/L			04/04/24 16:41	1
4-Methyl-2-pentanone	ND		10	ug/L			04/04/24 16:41	1
Acetone	ND		10	ug/L			04/04/24 16:41	1
Benzene	ND		1.0	ug/L			04/04/24 16:41	1
Bromobenzene	ND		1.0	ug/L			04/04/24 16:41	1
Bromodichloromethane	ND		1.0	ug/L			04/04/24 16:41	1
Dibromochloromethane	ND		1.0	ug/L			04/04/24 16:41	1
Bromoform	ND		1.0	ug/L			04/04/24 16:41	1
Bromomethane	ND		3.0	ug/L			04/04/24 16:41	1
Carbon disulfide	ND		10	ug/L			04/04/24 16:41	1
Carbon tetrachloride	ND		1.0	ug/L			04/04/24 16:41	1
Chlorobenzene	ND		1.0	ug/L			04/04/24 16:41	1
Chloroethane	ND		2.0	ug/L			04/04/24 16:41	1
Chloroform	ND		1.0	ug/L			04/04/24 16:41	1
Chloromethane	ND		3.0	ug/L			04/04/24 16:41	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/04/24 16:41	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			04/04/24 16:41	1
Dibromomethane	ND		1.0	ug/L			04/04/24 16:41	1
Dichlorodifluoromethane	ND		1.0	ug/L			04/04/24 16:41	1
Ethylbenzene	ND		1.0	ug/L			04/04/24 16:41	1
Hexachlorobutadiene	ND		1.0	ug/L			04/04/24 16:41	1
Isopropylbenzene	ND		1.0	ug/L			04/04/24 16:41	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			04/04/24 16:41	1
Methylene Chloride	ND		3.0	ug/L			04/04/24 16:41	1

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QC Sample Results

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

Job ID: 885-2074-1

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

Lab Sample ID: MB 885-2809/16
Matrix: Water
Analysis Batch: 2809

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

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
n-Butylbenzene	ND		3.0	ug/L			04/04/24 16:41	1
N-Propylbenzene	ND		1.0	ug/L			04/04/24 16:41	1
Naphthalene	ND		2.0	ug/L			04/04/24 16:41	1
sec-Butylbenzene	ND		1.0	ug/L			04/04/24 16:41	1
Styrene	ND		1.0	ug/L			04/04/24 16:41	1
tert-Butylbenzene	ND		1.0	ug/L			04/04/24 16:41	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			04/04/24 16:41	1
Toluene	ND		1.0	ug/L			04/04/24 16:41	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/04/24 16:41	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			04/04/24 16:41	1
Trichloroethene (TCE)	ND		1.0	ug/L			04/04/24 16:41	1
Trichlorofluoromethane	ND		1.0	ug/L			04/04/24 16:41	1
Vinyl chloride	ND		1.0	ug/L			04/04/24 16:41	1
Xylenes, Total	ND		1.5	ug/L			04/04/24 16:41	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/04/24 16:41	1
Toluene-d8 (Surr)	95		70 - 130		04/04/24 16:41	1
4-Bromofluorobenzene (Surr)	84		70 - 130		04/04/24 16:41	1
Dibromofluoromethane (Surr)	123		70 - 130		04/04/24 16:41	1

Lab Sample ID: LCS 885-2809/15
Matrix: Water
Analysis Batch: 2809

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.1	23.7		ug/L		118	70 - 130
Chlorobenzene	20.1	18.1		ug/L		90	70 - 130
Toluene	20.2	18.9		ug/L		94	70 - 130
Trichloroethene (TCE)	20.2	22.0		ug/L		109	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
Toluene-d8 (Surr)	88		70 - 130
4-Bromofluorobenzene (Surr)	85		70 - 130
Dibromofluoromethane (Surr)	120		70 - 130

Lab Sample ID: 885-2074-17 MS
Matrix: Water
Analysis Batch: 2809

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
Benzene	120	E	20.1	156	4	ug/L		154	70 - 130
Chlorobenzene	ND		20.1	18.1		ug/L		90	70 - 130
Toluene	24		20.2	41.2		ug/L		88	70 - 130
Trichloroethene (TCE)	ND		20.2	20.9		ug/L		104	70 - 130

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QC Sample Results

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

Job ID: 885-2074-1

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

Lab Sample ID: 885-2074-17 MS
Matrix: Water
Analysis Batch: 2809

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
Toluene-d8 (Surr)	92		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	118		70 - 130

Lab Sample ID: 885-2074-17 MSD
Matrix: Water
Analysis Batch: 2809

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

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
1,1-Dichloroethene	ND		20.1	16.8		ug/L		84	70 - 130	14	20
Benzene	120	E	20.1	136	4	ug/L		56	70 - 130	13	20
Chlorobenzene	ND		20.1	17.2		ug/L		86	70 - 130	5	20
Toluene	24		20.2	40.5		ug/L		84	70 - 130	2	20
Trichloroethene (TCE)	ND		20.2	18.9		ug/L		94	70 - 130	10	20

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
Toluene-d8 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	83		70 - 130
Dibromofluoromethane (Surr)	111		70 - 130

Lab Sample ID: MB 885-2875/22
Matrix: Water
Analysis Batch: 2875

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

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/05/24 12:07	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/05/24 12:07	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			04/05/24 12:07	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/05/24 12:07	1
1,1-Dichloroethane	ND		1.0	ug/L			04/05/24 12:07	1
1,1-Dichloroethene	ND		1.0	ug/L			04/05/24 12:07	1
1,1-Dichloropropene	ND		1.0	ug/L			04/05/24 12:07	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/05/24 12:07	1
1,2,3-Trichloropropane	ND		2.0	ug/L			04/05/24 12:07	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/05/24 12:07	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/05/24 12:07	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/05/24 12:07	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			04/05/24 12:07	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/05/24 12:07	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			04/05/24 12:07	1
1,2-Dichloropropane	ND		1.0	ug/L			04/05/24 12:07	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/05/24 12:07	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/05/24 12:07	1
1,3-Dichloropropane	ND		1.0	ug/L			04/05/24 12:07	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/05/24 12:07	1
1-Methylnaphthalene	ND		4.0	ug/L			04/05/24 12:07	1

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QC Sample Results

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

Job ID: 885-2074-1

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

Lab Sample ID: MB 885-2875/22
Matrix: Water
Analysis Batch: 2875

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		2.0	ug/L			04/05/24 12:07	1
2-Butanone	ND		10	ug/L			04/05/24 12:07	1
2-Chlorotoluene	ND		1.0	ug/L			04/05/24 12:07	1
2-Hexanone	ND		10	ug/L			04/05/24 12:07	1
2-Methylnaphthalene	ND		4.0	ug/L			04/05/24 12:07	1
4-Chlorotoluene	ND		1.0	ug/L			04/05/24 12:07	1
4-Isopropyltoluene	ND		1.0	ug/L			04/05/24 12:07	1
4-Methyl-2-pentanone	ND		10	ug/L			04/05/24 12:07	1
Acetone	ND		10	ug/L			04/05/24 12:07	1
Benzene	ND		1.0	ug/L			04/05/24 12:07	1
Bromobenzene	ND		1.0	ug/L			04/05/24 12:07	1
Bromodichloromethane	ND		1.0	ug/L			04/05/24 12:07	1
Dibromochloromethane	ND		1.0	ug/L			04/05/24 12:07	1
Bromoform	ND		1.0	ug/L			04/05/24 12:07	1
Bromomethane	ND		3.0	ug/L			04/05/24 12:07	1
Carbon disulfide	ND		10	ug/L			04/05/24 12:07	1
Carbon tetrachloride	ND		1.0	ug/L			04/05/24 12:07	1
Chlorobenzene	ND		1.0	ug/L			04/05/24 12:07	1
Chloroethane	ND		2.0	ug/L			04/05/24 12:07	1
Chloroform	ND		1.0	ug/L			04/05/24 12:07	1
Chloromethane	ND		3.0	ug/L			04/05/24 12:07	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/05/24 12:07	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			04/05/24 12:07	1
Dibromomethane	ND		1.0	ug/L			04/05/24 12:07	1
Dichlorodifluoromethane	ND		1.0	ug/L			04/05/24 12:07	1
Ethylbenzene	ND		1.0	ug/L			04/05/24 12:07	1
Hexachlorobutadiene	ND		1.0	ug/L			04/05/24 12:07	1
Isopropylbenzene	ND		1.0	ug/L			04/05/24 12:07	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			04/05/24 12:07	1
Methylene Chloride	ND		3.0	ug/L			04/05/24 12:07	1
n-Butylbenzene	ND		3.0	ug/L			04/05/24 12:07	1
N-Propylbenzene	ND		1.0	ug/L			04/05/24 12:07	1
Naphthalene	ND		2.0	ug/L			04/05/24 12:07	1
sec-Butylbenzene	ND		1.0	ug/L			04/05/24 12:07	1
Styrene	ND		1.0	ug/L			04/05/24 12:07	1
tert-Butylbenzene	ND		1.0	ug/L			04/05/24 12:07	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			04/05/24 12:07	1
Toluene	ND		1.0	ug/L			04/05/24 12:07	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/05/24 12:07	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			04/05/24 12:07	1
Trichloroethene (TCE)	ND		1.0	ug/L			04/05/24 12:07	1
Trichlorofluoromethane	ND		1.0	ug/L			04/05/24 12:07	1
Vinyl chloride	ND		1.0	ug/L			04/05/24 12:07	1
Xylenes, Total	ND		1.5	ug/L			04/05/24 12:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		70 - 130		04/05/24 12:07	1
Toluene-d8 (Surr)	93		70 - 130		04/05/24 12:07	1

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QC Sample Results

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

Job ID: 885-2074-1

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

Lab Sample ID: MB 885-2875/22
Matrix: Water
Analysis Batch: 2875

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	81		70 - 130		04/05/24 12:07	1
Dibromofluoromethane (Surr)	131	S1+	70 - 130		04/05/24 12:07	1

Lab Sample ID: LCS 885-2875/21
Matrix: Water
Analysis Batch: 2875

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.0	23.7		ug/L		118	70 - 130
Chlorobenzene	20.0	18.2		ug/L		91	70 - 130
Ethylbenzene	20.0	19.0		ug/L		95	70 - 130
Toluene	20.0	19.1		ug/L		95	70 - 130
Trichloroethene (TCE)	20.0	21.6		ug/L		108	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
Toluene-d8 (Surr)	90		70 - 130
4-Bromofluorobenzene (Surr)	84		70 - 130
Dibromofluoromethane (Surr)	119		70 - 130

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

Lab Sample ID: MB 885-2610/8
Matrix: Water
Analysis Batch: 2610

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

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics [C6 - C10]	ND		0.050	mg/L			04/01/24 10:59	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	103		15 - 270		04/01/24 10:59	1

Lab Sample ID: LCS 885-2610/7
Matrix: Water
Analysis Batch: 2610

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

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

QC Sample Results

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

Job ID: 885-2074-1

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

Lab Sample ID: 885-2074-16 MS
Matrix: Water
Analysis Batch: 2610

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]	ND		0.500	0.582		mg/L		112	41 - 148	
Surrogate	%Recovery	MS Qualifier	MS Limits							
4-Bromofluorobenzene (Surr)	262		15 - 270							

Lab Sample ID: 885-2074-16 MSD
Matrix: Water
Analysis Batch: 2610

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]	ND		0.500	0.549		mg/L		105	41 - 148	6	20
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	214		15 - 270								

Lab Sample ID: MB 885-2766/7
Matrix: Air
Analysis Batch: 2766

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	ug/L			04/03/24 10:19	1
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	100		15 - 412		04/03/24 10:19	1		

Lab Sample ID: LCS 885-2766/6
Matrix: Air
Analysis Batch: 2766

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	53.5		ug/L		107	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	211		15 - 412				

Lab Sample ID: 885-2074-13 DU
Matrix: Air
Analysis Batch: 2766

Client Sample ID: DTA-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)	88		15 - 412					

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QC Sample Results

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

Job ID: 885-2074-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-2767/7
Matrix: Air
Analysis Batch: 2767

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.10	ug/L			04/03/24 10:19	1
Ethylbenzene	ND		0.10	ug/L			04/03/24 10:19	1
Toluene	ND		0.10	ug/L			04/03/24 10:19	1
Xylenes, Total	ND		0.20	ug/L			04/03/24 10:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130		04/03/24 10:19	1

Lab Sample ID: LCS 885-2767/6
Matrix: Air
Analysis Batch: 2767

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	1.75		ug/L		87	70 - 130
Ethylbenzene	2.00	1.78		ug/L		89	70 - 130
m,p-Xylene	4.00	3.61		ug/L		90	70 - 130
o-Xylene	2.00	1.76		ug/L		88	70 - 130
Toluene	2.00	1.76		ug/L		88	70 - 130
Xylenes, Total	6.00	5.37		ug/L		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 885-2074-13 DU
Matrix: Air
Analysis Batch: 2767

Client Sample ID: DTA-EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Benzene	0.13		0.122		ug/L		8	20
Ethylbenzene	ND		ND		ug/L		NC	20
Toluene	ND		ND		ug/L		NC	20
Xylenes, Total	ND		ND		ug/L		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	75		70 - 130

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-2602/3-A
Matrix: Water
Analysis Batch: 2698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2602

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.010	ug/L		04/02/24 09:39	04/02/24 15:42	1

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QC Sample Results

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

Job ID: 885-2074-1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MRL 885-2602/1-A
Matrix: Water
Analysis Batch: 2698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2602

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	0.0100	ND		ug/L		65	60 - 140

Lab Sample ID: MB 885-2608/3-A
Matrix: Water
Analysis Batch: 2698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2608

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.010	ug/L		04/02/24 10:14	04/03/24 02:12	1

Lab Sample ID: LCS 885-2608/4-A
Matrix: Water
Analysis Batch: 2698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	0.100	0.106		ug/L		106	70 - 130

Lab Sample ID: LCSD 885-2608/5-A
Matrix: Water
Analysis Batch: 2698

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2608

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane	0.100	0.105		ug/L		105	70 - 130	0	20

Lab Sample ID: 885-2074-10 MS
Matrix: Water
Analysis Batch: 2698

Client Sample ID: MW-14-20240329
Prep Type: Total/NA
Prep Batch: 2608

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	ND		0.0954	0.0855		ug/L		90	65 - 130

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

Lab Sample ID: MB 885-2699/1-A
Matrix: Water
Analysis Batch: 2722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2699

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	mg/L		04/03/24 09:31	04/03/24 13:18	1
Motor Oil Range Organics [C28-C40]	ND		5.0	mg/L		04/03/24 09:31	04/03/24 13:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		46 - 159	04/03/24 09:31	04/03/24 13:18	1

Lab Sample ID: LCS 885-2699/2-A
Matrix: Water
Analysis Batch: 2722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	2.50	2.32		mg/L		93	57 - 147

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QC Sample Results

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

Job ID: 885-2074-1

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

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Di-n-octyl phthalate (Surr)	99		46 - 159

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-2582/4
Matrix: Water
Analysis Batch: 2582

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			04/01/24 09:15	1
Sulfate	ND		0.50	mg/L			04/01/24 09:15	1

Lab Sample ID: LCS 885-2582/5
Matrix: Water
Analysis Batch: 2582

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	4.70		mg/L		94	90 - 110
Sulfate	10.0	9.57		mg/L		96	90 - 110

Lab Sample ID: MRL 885-2582/3
Matrix: Water
Analysis Batch: 2582

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	0.516		mg/L		103	50 - 150
Sulfate	0.500	0.506		mg/L		101	50 - 150

Lab Sample ID: MB 885-2583/4
Matrix: Water
Analysis Batch: 2583

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	mg/L			04/01/24 09:15	1

Lab Sample ID: LCS 885-2583/5
Matrix: Water
Analysis Batch: 2583

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	2.47		mg/L		99	90 - 110
Nitrite as N	1.00	0.985		mg/L		98	90 - 110

Lab Sample ID: MRL 885-2583/3
Matrix: Water
Analysis Batch: 2583

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	0.100		mg/L		100	50 - 150
Nitrite as N	0.0999	0.101		mg/L		101	50 - 150

QC Sample Results

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

Job ID: 885-2074-1

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

Lab Sample ID: MB 885-2642/1
Matrix: Water
Analysis Batch: 2642

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			04/02/24 11:29	1

Lab Sample ID: LCS 885-2642/2
Matrix: Water
Analysis Batch: 2642

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	1020		mg/L		102	80 - 120



QC Association Summary

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

Job ID: 885-2074-1

GC/MS VOA

Analysis Batch: 2761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2074-1	RW-1-20240327	Total/NA	Water	8260B	
885-2074-3	RW-4-20240326	Total/NA	Water	8260B	
885-2074-4	BW-5-20240329	Total/NA	Water	8260B	
885-2074-5	BW-7-20240329	Total/NA	Water	8260B	
885-2074-7	BW-8-20240329	Total/NA	Water	8260B	
885-2074-8	MW-12-20240326	Total/NA	Water	8260B	
885-2074-9	MW-15-20240329	Total/NA	Water	8260B	
885-2074-10	MW-14-20240329	Total/NA	Water	8260B	
885-2074-11	MW-17-20240329	Total/NA	Water	8260B	
885-2074-12	MW-13-20240326	Total/NA	Water	8260B	
885-2074-14	MW-16-20240326	Total/NA	Water	8260B	
885-2074-14	MW-16-20240326	Total/NA	Water	8260B	
885-2074-15	BW-4-20240329	Total/NA	Water	8260B	
885-2074-16	FY Treated EFF	Total/NA	Water	8260B	
MB 885-2761/26	Method Blank	Total/NA	Water	8260B	
LCS 885-2761/25	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 2809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2074-2	RW-3-20240326	Total/NA	Water	8260B	
885-2074-5	BW-7-20240329	Total/NA	Water	8260B	
885-2074-6	BW-7R-20240328	Total/NA	Water	8260B	
885-2074-7	BW-8-20240329	Total/NA	Water	8260B	
885-2074-17	FY RAW	Total/NA	Water	8260B	
885-2074-18	Trip Blank	Total/NA	Water	8260B	
MB 885-2809/16	Method Blank	Total/NA	Water	8260B	
LCS 885-2809/15	Lab Control Sample	Total/NA	Water	8260B	
885-2074-17 MS	FY RAW	Total/NA	Water	8260B	
885-2074-17 MSD	FY RAW	Total/NA	Water	8260B	

Analysis Batch: 2875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2074-17	FY RAW	Total/NA	Water	8260B	
MB 885-2875/22	Method Blank	Total/NA	Water	8260B	
LCS 885-2875/21	Lab Control Sample	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 2610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2074-16	FY Treated EFF	Total/NA	Water	8015D	
885-2074-17	FY RAW	Total/NA	Water	8015D	
MB 885-2610/8	Method Blank	Total/NA	Water	8015D	
LCS 885-2610/7	Lab Control Sample	Total/NA	Water	8015D	
885-2074-16 MS	FY Treated EFF	Total/NA	Water	8015D	
885-2074-16 MSD	FY Treated EFF	Total/NA	Water	8015D	

Analysis Batch: 2766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2074-13	DTA-EFF	Total/NA	Air	8015D	
MB 885-2766/7	Method Blank	Total/NA	Air	8015D	

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QC Association Summary

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

Job ID: 885-2074-1

GC VOA (Continued)

Analysis Batch: 2766 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-2766/6	Lab Control Sample	Total/NA	Air	8015D	
885-2074-13 DU	DTA-EFF	Total/NA	Air	8015D	

Analysis Batch: 2767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2074-13	DTA-EFF	Total/NA	Air	8021B	
MB 885-2767/7	Method Blank	Total/NA	Air	8021B	
LCS 885-2767/6	Lab Control Sample	Total/NA	Air	8021B	
885-2074-13 DU	DTA-EFF	Total/NA	Air	8021B	

GC Semi VOA

Prep Batch: 2602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2074-1	RW-1-20240327	Total/NA	Water	504.1	
885-2074-2	RW-3-20240326	Total/NA	Water	504.1	
885-2074-3	RW-4-20240326	Total/NA	Water	504.1	
885-2074-4	BW-5-20240329	Total/NA	Water	504.1	
885-2074-5	BW-7-20240329	Total/NA	Water	504.1	
885-2074-6	BW-7R-20240328	Total/NA	Water	504.1	
885-2074-7	BW-8-20240329	Total/NA	Water	504.1	
885-2074-8	MW-12-20240326	Total/NA	Water	504.1	
885-2074-9	MW-15-20240329	Total/NA	Water	504.1	
MB 885-2602/3-A	Method Blank	Total/NA	Water	504.1	
MRL 885-2602/1-A	Lab Control Sample	Total/NA	Water	504.1	

Prep Batch: 2608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2074-10	MW-14-20240329	Total/NA	Water	504.1	
885-2074-11	MW-17-20240329	Total/NA	Water	504.1	
885-2074-12	MW-13-20240326	Total/NA	Water	504.1	
885-2074-14	MW-16-20240326	Total/NA	Water	504.1	
885-2074-15	BW-4-20240329	Total/NA	Water	504.1	
885-2074-16	FY Treated EFF	Total/NA	Water	504.1	
885-2074-17	FY RAW	Total/NA	Water	504.1	
MB 885-2608/3-A	Method Blank	Total/NA	Water	504.1	
LCS 885-2608/4-A	Lab Control Sample	Total/NA	Water	504.1	
LCSD 885-2608/5-A	Lab Control Sample Dup	Total/NA	Water	504.1	
885-2074-10 MS	MW-14-20240329	Total/NA	Water	504.1	

Analysis Batch: 2698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2074-1	RW-1-20240327	Total/NA	Water	504.1	2602
885-2074-9	MW-15-20240329	Total/NA	Water	504.1	2602
885-2074-10	MW-14-20240329	Total/NA	Water	504.1	2608
885-2074-11	MW-17-20240329	Total/NA	Water	504.1	2608
885-2074-12	MW-13-20240326	Total/NA	Water	504.1	2608
885-2074-15	BW-4-20240329	Total/NA	Water	504.1	2608
885-2074-16	FY Treated EFF	Total/NA	Water	504.1	2608
MB 885-2602/3-A	Method Blank	Total/NA	Water	504.1	2602
MB 885-2608/3-A	Method Blank	Total/NA	Water	504.1	2608

Eurofins Albuquerque

QC Association Summary

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

Job ID: 885-2074-1

GC Semi VOA (Continued)

Analysis Batch: 2698 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-2608/4-A	Lab Control Sample	Total/NA	Water	504.1	2608
LCSD 885-2608/5-A	Lab Control Sample Dup	Total/NA	Water	504.1	2608
MRL 885-2602/1-A	Lab Control Sample	Total/NA	Water	504.1	2602
885-2074-10 MS	MW-14-20240329	Total/NA	Water	504.1	2608

Prep Batch: 2699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2074-16	FY Treated EFF	Total/NA	Water	3511	
885-2074-17	FY RAW	Total/NA	Water	3511	
MB 885-2699/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-2699/2-A	Lab Control Sample	Total/NA	Water	3511	

Analysis Batch: 2722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2074-16	FY Treated EFF	Total/NA	Water	8015D	2699
885-2074-17	FY RAW	Total/NA	Water	8015D	2699
MB 885-2699/1-A	Method Blank	Total/NA	Water	8015D	2699
LCS 885-2699/2-A	Lab Control Sample	Total/NA	Water	8015D	2699

Analysis Batch: 2777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2074-2	RW-3-20240326	Total/NA	Water	504.1	2602
885-2074-3	RW-4-20240326	Total/NA	Water	504.1	2602
885-2074-4	BW-5-20240329	Total/NA	Water	504.1	2602
885-2074-5	BW-7-20240329	Total/NA	Water	504.1	2602
885-2074-6	BW-7R-20240328	Total/NA	Water	504.1	2602
885-2074-7	BW-8-20240329	Total/NA	Water	504.1	2602
885-2074-8	MW-12-20240326	Total/NA	Water	504.1	2602
885-2074-14	MW-16-20240326	Total/NA	Water	504.1	2608
885-2074-17	FY RAW	Total/NA	Water	504.1	2608

HPLC/IC

Analysis Batch: 2582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2074-16	FY Treated EFF	Total/NA	Water	300.0	
885-2074-17	FY RAW	Total/NA	Water	300.0	
MB 885-2582/4	Method Blank	Total/NA	Water	300.0	
LCS 885-2582/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-2582/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 2583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2074-16	FY Treated EFF	Total/NA	Water	300.0	
885-2074-17	FY RAW	Total/NA	Water	300.0	
MB 885-2583/4	Method Blank	Total/NA	Water	300.0	
LCS 885-2583/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-2583/3	Lab Control Sample	Total/NA	Water	300.0	

Eurofins Albuquerque

QC Association Summary

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

Job ID: 885-2074-1

General Chemistry

Analysis Batch: 2642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2074-16	FY Treated EFF	Total/NA	Water	2540C	
885-2074-17	FY RAW	Total/NA	Water	2540C	
MB 885-2642/1	Method Blank	Total/NA	Water	2540C	
LCS 885-2642/2	Lab Control Sample	Total/NA	Water	2540C	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Lab Chronicle

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

Job ID: 885-2074-1

Client Sample ID: RW-1-20240327

Lab Sample ID: 885-2074-1

Date Collected: 03/27/24 08:30

Matrix: Water

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2761	JR	EET ALB	04/03/24 13:33
Total/NA	Prep	504.1			2602	DH	EET ALB	04/02/24 09:39
Total/NA	Analysis	504.1		1	2698	DH	EET ALB	04/02/24 20:15

Client Sample ID: RW-3-20240326

Lab Sample ID: 885-2074-2

Date Collected: 03/26/24 14:10

Matrix: Water

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2809	JR	EET ALB	04/04/24 17:08
Total/NA	Prep	504.1			2602	DH	EET ALB	04/02/24 09:39
Total/NA	Analysis	504.1		5	2777	DH	EET ALB	04/03/24 15:01

Client Sample ID: RW-4-20240326

Lab Sample ID: 885-2074-3

Date Collected: 03/26/24 13:35

Matrix: Water

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		20	2761	JR	EET ALB	04/03/24 14:28
Total/NA	Prep	504.1			2602	DH	EET ALB	04/02/24 09:39
Total/NA	Analysis	504.1		200	2777	DH	EET ALB	04/03/24 15:18

Client Sample ID: BW-5-20240329

Lab Sample ID: 885-2074-4

Date Collected: 03/29/24 10:25

Matrix: Water

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		20	2761	JR	EET ALB	04/03/24 14:55
Total/NA	Prep	504.1			2602	DH	EET ALB	04/02/24 09:52
Total/NA	Analysis	504.1		100	2777	DH	EET ALB	04/03/24 15:35

Client Sample ID: BW-7-20240329

Lab Sample ID: 885-2074-5

Date Collected: 03/29/24 10:00

Matrix: Water

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	2761	JR	EET ALB	04/03/24 15:22
Total/NA	Analysis	8260B		5	2809	JR	EET ALB	04/04/24 17:36
Total/NA	Prep	504.1			2602	DH	EET ALB	04/02/24 09:52
Total/NA	Analysis	504.1		5	2777	DH	EET ALB	04/03/24 15:52

Lab Chronicle

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

Job ID: 885-2074-1

Client Sample ID: BW-7R-20240328

Lab Sample ID: 885-2074-6

Date Collected: 03/28/24 14:40

Matrix: Water

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	2809	JR	EET ALB	04/04/24 18:03
Total/NA	Prep	504.1			2602	DH	EET ALB	04/02/24 09:52
Total/NA	Analysis	504.1		20	2777	DH	EET ALB	04/03/24 16:10

Client Sample ID: BW-8-20240329

Lab Sample ID: 885-2074-7

Date Collected: 03/29/24 10:55

Matrix: Water

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		50	2761	JR	EET ALB	04/03/24 16:18
Total/NA	Analysis	8260B		500	2809	JR	EET ALB	04/04/24 18:30
Total/NA	Prep	504.1			2602	DH	EET ALB	04/02/24 09:52
Total/NA	Analysis	504.1		5	2777	DH	EET ALB	04/03/24 16:27

Client Sample ID: MW-12-20240326

Lab Sample ID: 885-2074-8

Date Collected: 03/26/24 15:00

Matrix: Water

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		10	2761	JR	EET ALB	04/03/24 16:45
Total/NA	Prep	504.1			2602	DH	EET ALB	04/02/24 09:54
Total/NA	Analysis	504.1		10	2777	DH	EET ALB	04/03/24 16:44

Client Sample ID: MW-15-20240329

Lab Sample ID: 885-2074-9

Date Collected: 03/29/24 09:34

Matrix: Water

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2761	JR	EET ALB	04/03/24 17:13
Total/NA	Prep	504.1			2602	DH	EET ALB	04/02/24 09:54
Total/NA	Analysis	504.1		1	2698	DH	EET ALB	04/02/24 22:48

Client Sample ID: MW-14-20240329

Lab Sample ID: 885-2074-10

Date Collected: 03/29/24 09:15

Matrix: Water

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2761	JR	EET ALB	04/03/24 17:40
Total/NA	Prep	504.1			2608	DH	EET ALB	04/02/24 10:14
Total/NA	Analysis	504.1		1	2698	DH	EET ALB	04/03/24 03:02

Lab Chronicle

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

Job ID: 885-2074-1

Client Sample ID: MW-17-20240329

Lab Sample ID: 885-2074-11

Date Collected: 03/29/24 09:45

Matrix: Water

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2761	JR	EET ALB	04/03/24 18:07
Total/NA	Prep	504.1			2608	DH	EET ALB	04/02/24 10:14
Total/NA	Analysis	504.1		1	2698	DH	EET ALB	04/03/24 03:36

Client Sample ID: MW-13-20240326

Lab Sample ID: 885-2074-12

Date Collected: 03/26/24 15:52

Matrix: Water

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	2761	JR	EET ALB	04/03/24 18:35
Total/NA	Prep	504.1			2608	DH	EET ALB	04/02/24 10:14
Total/NA	Analysis	504.1		1	2698	DH	EET ALB	04/03/24 04:10

Client Sample ID: DTA-EFF

Lab Sample ID: 885-2074-13

Date Collected: 03/27/24 10:30

Matrix: Air

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015D		1	2766	JP	EET ALB	04/03/24 10:43
Total/NA	Analysis	8021B		1	2767	JP	EET ALB	04/03/24 10:43

Client Sample ID: MW-16-20240326

Lab Sample ID: 885-2074-14

Date Collected: 03/26/24 15:17

Matrix: Water

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		20	2761	JR	EET ALB	04/03/24 19:02
Total/NA	Analysis	8260B		2	2761	JR	EET ALB	04/03/24 19:30
Total/NA	Prep	504.1			2608	DH	EET ALB	04/02/24 10:14
Total/NA	Analysis	504.1		5	2777	DH	EET ALB	04/03/24 17:01

Client Sample ID: BW-4-20240329

Lab Sample ID: 885-2074-15

Date Collected: 03/29/24 10:38

Matrix: Water

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2761	JR	EET ALB	04/03/24 19:57
Total/NA	Prep	504.1			2608	DH	EET ALB	04/02/24 10:14
Total/NA	Analysis	504.1		1	2698	DH	EET ALB	04/03/24 04:43

Lab Chronicle

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

Job ID: 885-2074-1

Client Sample ID: FY Treated EFF

Lab Sample ID: 885-2074-16

Date Collected: 03/27/24 10:00

Matrix: Water

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2761	JR	EET ALB	04/03/24 20:25
Total/NA	Analysis	8015D		1	2610	JP	EET ALB	04/01/24 12:56
Total/NA	Prep	504.1			2608	DH	EET ALB	04/02/24 10:14
Total/NA	Analysis	504.1		1	2698	DH	EET ALB	04/03/24 05:00
Total/NA	Prep	3511			2699	JU	EET ALB	04/03/24 09:31
Total/NA	Analysis	8015D		1	2722	JU	EET ALB	04/03/24 13:43
Total/NA	Analysis	300.0		10	2582	RC	EET ALB	04/01/24 16:24
Total/NA	Analysis	300.0		5	2583	RC	EET ALB	04/01/24 23:28
Total/NA	Analysis	2540C		1	2642	JU	EET ALB	04/02/24 11:29

Client Sample ID: FY RAW

Lab Sample ID: 885-2074-17

Date Collected: 03/27/24 09:38

Matrix: Water

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2809	JR	EET ALB	04/04/24 18:58
Total/NA	Analysis	8260B		10	2875	JR	EET ALB	04/05/24 12:35
Total/NA	Analysis	8015D		1	2610	JP	EET ALB	04/01/24 13:20
Total/NA	Prep	504.1			2608	DH	EET ALB	04/02/24 10:14
Total/NA	Analysis	504.1		50	2777	DH	EET ALB	04/03/24 17:18
Total/NA	Prep	3511			2699	JU	EET ALB	04/03/24 09:31
Total/NA	Analysis	8015D		1	2722	JU	EET ALB	04/03/24 13:56
Total/NA	Analysis	300.0		10	2582	RC	EET ALB	04/01/24 16:49
Total/NA	Analysis	300.0		5	2583	RC	EET ALB	04/01/24 23:41
Total/NA	Analysis	2540C		1	2642	JU	EET ALB	04/02/24 11:29

Client Sample ID: Trip Blank

Lab Sample ID: 885-2074-18

Date Collected: 03/26/24 00:00

Matrix: Water

Date Received: 03/29/24 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	2809	JR	EET ALB	04/04/24 20:20

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.
 Project/Site: Former Y

Job ID: 885-2074-1

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
504.1	504.1	Water	1,2-Dibromoethane
8015D		Air	Gasoline Range Organics [C6 - C10]
8015D		Water	Gasoline Range Organics [C6 - C10]
8015D	3511	Water	Diesel Range Organics [C10-C28]
8015D	3511	Water	Motor Oil Range Organics [C28-C40]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
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
8260B		Water	Bromobenzene

Accreditation/Certification Summary

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

Job ID: 885-2074-1

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
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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	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
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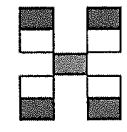
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
504.1	504.1	Water	1,2-Dibromoethane
8015D		Air	Gasoline Range Organics [C6 - C10]
8021B		Air	Benzene
8021B		Air	Ethylbenzene
8021B		Air	Toluene
8021B		Air	Xylenes, Total

Chain-of-Custody Record

Client: Daniel B Stephens
E ASSOCIATES
 Mailing Address: 10020 ACADEMY NE
APT NM 87109
 Phone #: 505 882 802-9400
 email or Fax#: gherman@geo-logic.com
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type)

Turn-Around Time:
 Standard Rush
 Project Name: Former Y
 Project #: DBB.1157
 Project Manager: Grace Herman
 Sampler: tones
 On Ice: Yes No
 # of Coolers: 1 MORTY
 Cooler Temp (including CF): 4.8-0.1=4.7 (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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



885-2074 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)
2/27/24	1830	ACQ	RW-1-20240327	5VOPS	Various	-1										
2/28/24	1440		RW-3-20240328			-2										
2/28/24	1335		RW-4-20240328			-3										
2/29/24	1025		BW-5-20240329			-4										
3/29/24	1000		BW-7-20240329			-5										
3/28/24	1440		BW-7R-20240328			-6										
3/29/24	1055		BW-8-20240329			-7										
			MW-11-202403			-										
3/29/24	1500		MW-12-20240329			-8										
3/29/24	0924		MW-15-20240329			-9										
3/29/24	0915		MW-14-20240329			-10										
3/29/24	0945		MW-17-20240329			-11										

Date: 3/29/24 Time: 1630 Relinquished by: [Signature]

Received by: SEM CPU Via: 3/29/24 Date: 3/29/24 Time: 1635

Remarks:

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4/22/2024

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
And Associates
 Mailing Address: 6020 ACADEMY NE
ALBUQUERQUE NM 87109
 Phone #: 505 822 9400

email or Fax#: gherman@geo-logic.com
 QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush

Project Name:
FORMER V

Project #:
DB18.1157

Project Manager:
Grace Herman

Sampler: Tomes
 On Ice: Yes No

of Coolers: _____
 Cooler Temp (including CF): 4.8-0.1=4.7 (°C) NORTH



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

Container Type and #
 Preservative Type
 HEAL No.

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)	TDS - SM840C	VOCs 8021B	TPH, GLO, DRO, 8015B	Sulfate, Chloride, 20.7	Nitrate 300.0	TPH, GLO, 8015B	
3/20/24	1552	AQ	MW-13-20240320	5 VOA's	Various	-12				X				X									
3/27/24	1030	AIR	DTA-EFF	BAG	---	-13												X					X
3/20/24	1517	AQ	MW-10-20240320	5 VOA's	Various	-14				X				X									
3/29/24	1038		BW-4-20240329	1	---	-15				X				X									
3/27/24	1000		FY Treated EFF	7 Jars 3 Bottles	Various	-16	X	X	X	X			X	X			X	X	X	X	X	X	
3/27/24	0938		FY RAW			-17	X	X	X	X			X	X			X	X	X	X	X	X	
			Trip Blank pre-sample bottle 7/24/24			-18																	

Date: 3/29/24 Time: 1432 Relinquished by: [Signature]
 Received by: SCM Via: CDU Date: 3/29/24 Time: 1635 Remarks:
 Date: _____ Time: _____ Relinquished by: _____
 Received by: _____ Via: _____ Date: _____ Time: _____

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.

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4/22/2024



Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-2074-1

Login Number: 2074

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	Received Trip Blank(s) not listed on 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.	False	Narrative to indicate if headspace container used for analysis.
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").	False	Refer to Job Narrative for details.

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/23/2024 3:14:16 PM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-3049-1

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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5/23/2024 3:14:16 PM

Authorized for release by
John Caldwell, Project Manager
john.caldwell@et.eurofinsus.com
(505)345-3975



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Definitions/Glossary

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

Job ID: 885-3049-1

Qualifiers

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

Case Narrative

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

Job ID: 885-3049-1

Job ID: 885-3049-1

Eurofins Albuquerque

Job Narrative 885-3049-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 4/18/2024 8:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°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.

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 504.1_PREC: The following sample(s) are flagged for being analyzed outside of analytical holding time. However these are not drinking water samples and the 24 hour limit does not apply: FY Treated EFF (885-3049-1) and FY Raw (885-3049-2).

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.

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-3049-1

Client Sample ID: FY Treated EFF

Lab Sample ID: 885-3049-1

Date Collected: 04/17/24 14:40

Matrix: Water

Date Received: 04/18/24 08:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/30/24 02:55	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/30/24 02:55	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			04/30/24 02:55	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/30/24 02:55	1
1,1-Dichloroethane	ND		1.0	ug/L			04/30/24 02:55	1
1,1-Dichloroethene	ND		1.0	ug/L			04/30/24 02:55	1
1,1-Dichloropropene	ND		1.0	ug/L			04/30/24 02:55	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/30/24 02:55	1
1,2,3-Trichloropropane	ND		2.0	ug/L			04/30/24 02:55	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/30/24 02:55	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/30/24 02:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/30/24 02:55	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			04/30/24 02:55	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/30/24 02:55	1
1,2-Dichloroethane (EDC)	2.2		1.0	ug/L			04/30/24 02:55	1
1,2-Dichloropropane	ND		1.0	ug/L			04/30/24 02:55	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/30/24 02:55	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/30/24 02:55	1
1,3-Dichloropropane	ND		1.0	ug/L			04/30/24 02:55	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/30/24 02:55	1
1-Methylnaphthalene	ND		4.0	ug/L			04/30/24 02:55	1
2,2-Dichloropropane	ND		2.0	ug/L			04/30/24 02:55	1
2-Butanone	ND		10	ug/L			04/30/24 02:55	1
2-Chlorotoluene	ND		1.0	ug/L			04/30/24 02:55	1
2-Hexanone	11		10	ug/L			04/30/24 02:55	1
2-Methylnaphthalene	ND		4.0	ug/L			04/30/24 02:55	1
4-Chlorotoluene	ND		1.0	ug/L			04/30/24 02:55	1
4-Isopropyltoluene	ND		1.0	ug/L			04/30/24 02:55	1
4-Methyl-2-pentanone	ND		10	ug/L			04/30/24 02:55	1
Acetone	14		10	ug/L			04/30/24 02:55	1
Benzene	ND		1.0	ug/L			04/30/24 02:55	1
Bromobenzene	ND		1.0	ug/L			04/30/24 02:55	1
Bromodichloromethane	ND		1.0	ug/L			04/30/24 02:55	1
Dibromochloromethane	ND		1.0	ug/L			04/30/24 02:55	1
Bromoform	ND		1.0	ug/L			04/30/24 02:55	1
Bromomethane	ND		3.0	ug/L			04/30/24 02:55	1
Carbon disulfide	ND		10	ug/L			04/30/24 02:55	1
Carbon tetrachloride	ND		1.0	ug/L			04/30/24 02:55	1
Chlorobenzene	ND		1.0	ug/L			04/30/24 02:55	1
Chloroethane	ND		2.0	ug/L			04/30/24 02:55	1
Chloroform	ND		1.0	ug/L			04/30/24 02:55	1
Chloromethane	ND		3.0	ug/L			04/30/24 02:55	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/30/24 02:55	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			04/30/24 02:55	1
Dibromomethane	ND		1.0	ug/L			04/30/24 02:55	1
Dichlorodifluoromethane	ND		1.0	ug/L			04/30/24 02:55	1
Ethylbenzene	ND		1.0	ug/L			04/30/24 02:55	1
Hexachlorobutadiene	ND		1.0	ug/L			04/30/24 02:55	1
Isopropylbenzene	ND		1.0	ug/L			04/30/24 02:55	1

Euofins Albuquerque

Client Sample Results

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

Job ID: 885-3049-1

Client Sample ID: FY Treated EFF

Lab Sample ID: 885-3049-1

Date Collected: 04/17/24 14:40

Matrix: Water

Date Received: 04/18/24 08:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			04/30/24 02:55	1
Methylene Chloride	ND		3.0	ug/L			04/30/24 02:55	1
n-Butylbenzene	ND		3.0	ug/L			04/30/24 02:55	1
N-Propylbenzene	ND		1.0	ug/L			04/30/24 02:55	1
Naphthalene	ND		2.0	ug/L			04/30/24 02:55	1
sec-Butylbenzene	ND		1.0	ug/L			04/30/24 02:55	1
Styrene	ND		1.0	ug/L			04/30/24 02:55	1
tert-Butylbenzene	ND		1.0	ug/L			04/30/24 02:55	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			04/30/24 02:55	1
Toluene	ND		1.0	ug/L			04/30/24 02:55	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/30/24 02:55	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			04/30/24 02:55	1
Trichloroethene (TCE)	ND		1.0	ug/L			04/30/24 02:55	1
Trichlorofluoromethane	ND		1.0	ug/L			04/30/24 02:55	1
Vinyl chloride	ND		1.0	ug/L			04/30/24 02:55	1
Xylenes, Total	ND		1.5	ug/L			04/30/24 02:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		04/30/24 02:55	1
Toluene-d8 (Surr)	94		70 - 130		04/30/24 02:55	1
4-Bromofluorobenzene (Surr)	102		70 - 130		04/30/24 02:55	1
Dibromofluoromethane (Surr)	101		70 - 130		04/30/24 02:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.073		0.050	mg/L			04/23/24 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		15 - 270		04/23/24 17:39	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.55	H	0.048	ug/L		04/23/24 09:00	04/24/24 13:06	5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	mg/L		04/22/24 15:02	04/23/24 18:13	1
Motor Oil Range Organics [C28-C40]	ND		5.0	mg/L		04/22/24 15:02	04/23/24 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		46 - 159	04/22/24 15:02	04/23/24 18:13	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77		10	mg/L			04/18/24 16:03	20
Nitrate	1.6		0.10	mg/L			04/18/24 15:51	1
Sulfate	43		10	mg/L			04/18/24 16:03	20

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	520		100	mg/L			04/19/24 13:54	1

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-3049-1

Client Sample ID: FY Raw

Lab Sample ID: 885-3049-2

Date Collected: 04/17/24 15:01

Matrix: Water

Date Received: 04/18/24 08:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L			04/30/24 04:56	5
1,1,1-Trichloroethane	ND		5.0	ug/L			04/30/24 04:56	5
1,1,2,2-Tetrachloroethane	ND		10	ug/L			04/30/24 04:56	5
1,1,2-Trichloroethane	ND		5.0	ug/L			04/30/24 04:56	5
1,1-Dichloroethane	ND		5.0	ug/L			04/30/24 04:56	5
1,1-Dichloroethene	ND		5.0	ug/L			04/30/24 04:56	5
1,1-Dichloropropene	ND		5.0	ug/L			04/30/24 04:56	5
1,2,3-Trichlorobenzene	ND		5.0	ug/L			04/30/24 04:56	5
1,2,3-Trichloropropane	ND		10	ug/L			04/30/24 04:56	5
1,2,4-Trichlorobenzene	ND		5.0	ug/L			04/30/24 04:56	5
1,2,4-Trimethylbenzene	6.0		5.0	ug/L			04/30/24 04:56	5
1,2-Dibromo-3-Chloropropane	ND		10	ug/L			04/30/24 04:56	5
1,2-Dibromoethane (EDB)	9.6		5.0	ug/L			04/30/24 04:56	5
1,2-Dichlorobenzene	ND		5.0	ug/L			04/30/24 04:56	5
1,2-Dichloroethane (EDC)	95		5.0	ug/L			04/30/24 04:56	5
1,2-Dichloropropane	ND		5.0	ug/L			04/30/24 04:56	5
1,3,5-Trimethylbenzene	12		5.0	ug/L			04/30/24 04:56	5
1,3-Dichlorobenzene	ND		5.0	ug/L			04/30/24 04:56	5
1,3-Dichloropropane	ND		5.0	ug/L			04/30/24 04:56	5
1,4-Dichlorobenzene	ND		5.0	ug/L			04/30/24 04:56	5
1-Methylnaphthalene	ND		20	ug/L			04/30/24 04:56	5
2,2-Dichloropropane	ND		10	ug/L			04/30/24 04:56	5
2-Butanone	ND		50	ug/L			04/30/24 04:56	5
2-Chlorotoluene	ND		5.0	ug/L			04/30/24 04:56	5
2-Hexanone	ND		50	ug/L			04/30/24 04:56	5
2-Methylnaphthalene	ND		20	ug/L			04/30/24 04:56	5
4-Chlorotoluene	ND		5.0	ug/L			04/30/24 04:56	5
4-Isopropyltoluene	ND		5.0	ug/L			04/30/24 04:56	5
4-Methyl-2-pentanone	ND		50	ug/L			04/30/24 04:56	5
Acetone	ND		50	ug/L			04/30/24 04:56	5
Benzene	290		5.0	ug/L			04/30/24 04:56	5
Bromobenzene	ND		5.0	ug/L			04/30/24 04:56	5
Bromodichloromethane	ND		5.0	ug/L			04/30/24 04:56	5
Dibromochloromethane	ND		5.0	ug/L			04/30/24 04:56	5
Bromoform	ND		5.0	ug/L			04/30/24 04:56	5
Bromomethane	ND		15	ug/L			04/30/24 04:56	5
Carbon disulfide	ND		50	ug/L			04/30/24 04:56	5
Carbon tetrachloride	ND		5.0	ug/L			04/30/24 04:56	5
Chlorobenzene	ND		5.0	ug/L			04/30/24 04:56	5
Chloroethane	ND		10	ug/L			04/30/24 04:56	5
Chloroform	ND		5.0	ug/L			04/30/24 04:56	5
Chloromethane	ND		15	ug/L			04/30/24 04:56	5
cis-1,2-Dichloroethene	ND		5.0	ug/L			04/30/24 04:56	5
cis-1,3-Dichloropropene	ND		5.0	ug/L			04/30/24 04:56	5
Dibromomethane	ND		5.0	ug/L			04/30/24 04:56	5
Dichlorodifluoromethane	ND		5.0	ug/L			04/30/24 04:56	5
Ethylbenzene	ND		5.0	ug/L			04/30/24 04:56	5
Hexachlorobutadiene	ND		5.0	ug/L			04/30/24 04:56	5
Isopropylbenzene	ND		5.0	ug/L			04/30/24 04:56	5

Euofins Albuquerque

Client Sample Results

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

Job ID: 885-3049-1

Client Sample ID: FY Raw

Lab Sample ID: 885-3049-2

Date Collected: 04/17/24 15:01

Matrix: Water

Date Received: 04/18/24 08:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		5.0	ug/L			04/30/24 04:56	5
Methylene Chloride	ND		15	ug/L			04/30/24 04:56	5
n-Butylbenzene	ND		15	ug/L			04/30/24 04:56	5
N-Propylbenzene	ND		5.0	ug/L			04/30/24 04:56	5
Naphthalene	ND		10	ug/L			04/30/24 04:56	5
sec-Butylbenzene	ND		5.0	ug/L			04/30/24 04:56	5
Styrene	ND		5.0	ug/L			04/30/24 04:56	5
tert-Butylbenzene	ND		5.0	ug/L			04/30/24 04:56	5
Tetrachloroethene (PCE)	ND		5.0	ug/L			04/30/24 04:56	5
Toluene	270		5.0	ug/L			04/30/24 04:56	5
trans-1,2-Dichloroethene	ND		5.0	ug/L			04/30/24 04:56	5
trans-1,3-Dichloropropene	ND		5.0	ug/L			04/30/24 04:56	5
Trichloroethene (TCE)	ND		5.0	ug/L			04/30/24 04:56	5
Trichlorofluoromethane	ND		5.0	ug/L			04/30/24 04:56	5
Vinyl chloride	ND		5.0	ug/L			04/30/24 04:56	5
Xylenes, Total	130		7.5	ug/L			04/30/24 04:56	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		04/30/24 04:56	5
Toluene-d8 (Surr)	96		70 - 130		04/30/24 04:56	5
4-Bromofluorobenzene (Surr)	102		70 - 130		04/30/24 04:56	5
Dibromofluoromethane (Surr)	97		70 - 130		04/30/24 04:56	5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	2.0		0.25	mg/L			04/23/24 03:57	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		15 - 270		04/23/24 03:57	5

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	9.3	H	0.47	ug/L		04/23/24 09:00	04/24/24 13:23	50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	mg/L		04/22/24 15:02	04/23/24 18:37	1
Motor Oil Range Organics [C28-C40]	ND		5.0	mg/L		04/22/24 15:02	04/23/24 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		46 - 159	04/22/24 15:02	04/23/24 18:37	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72		10	mg/L			04/18/24 16:28	20
Nitrate	1.5		0.10	mg/L			04/18/24 16:16	1
Sulfate	47		0.50	mg/L			04/18/24 16:16	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	490		250	mg/L			04/19/24 13:54	1

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Client Sample Results

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

Job ID: 885-3049-1

Client Sample ID: Trip Blank

Lab Sample ID: 885-3049-3

Date Collected: 04/17/24 00:00

Matrix: Water

Date Received: 04/18/24 08:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/30/24 03:19	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/30/24 03:19	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			04/30/24 03:19	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/30/24 03:19	1
1,1-Dichloroethane	ND		1.0	ug/L			04/30/24 03:19	1
1,1-Dichloroethene	ND		1.0	ug/L			04/30/24 03:19	1
1,1-Dichloropropene	ND		1.0	ug/L			04/30/24 03:19	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/30/24 03:19	1
1,2,3-Trichloropropane	ND		2.0	ug/L			04/30/24 03:19	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/30/24 03:19	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/30/24 03:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/30/24 03:19	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			04/30/24 03:19	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/30/24 03:19	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			04/30/24 03:19	1
1,2-Dichloropropane	ND		1.0	ug/L			04/30/24 03:19	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/30/24 03:19	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/30/24 03:19	1
1,3-Dichloropropane	ND		1.0	ug/L			04/30/24 03:19	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/30/24 03:19	1
1-Methylnaphthalene	ND		4.0	ug/L			04/30/24 03:19	1
2,2-Dichloropropane	ND		2.0	ug/L			04/30/24 03:19	1
2-Butanone	ND		10	ug/L			04/30/24 03:19	1
2-Chlorotoluene	ND		1.0	ug/L			04/30/24 03:19	1
2-Hexanone	ND		10	ug/L			04/30/24 03:19	1
2-Methylnaphthalene	ND		4.0	ug/L			04/30/24 03:19	1
4-Chlorotoluene	ND		1.0	ug/L			04/30/24 03:19	1
4-Isopropyltoluene	ND		1.0	ug/L			04/30/24 03:19	1
4-Methyl-2-pentanone	ND		10	ug/L			04/30/24 03:19	1
Acetone	ND		10	ug/L			04/30/24 03:19	1
Benzene	ND		1.0	ug/L			04/30/24 03:19	1
Bromobenzene	ND		1.0	ug/L			04/30/24 03:19	1
Bromodichloromethane	ND		1.0	ug/L			04/30/24 03:19	1
Dibromochloromethane	ND		1.0	ug/L			04/30/24 03:19	1
Bromoform	ND		1.0	ug/L			04/30/24 03:19	1
Bromomethane	ND		3.0	ug/L			04/30/24 03:19	1
Carbon disulfide	ND		10	ug/L			04/30/24 03:19	1
Carbon tetrachloride	ND		1.0	ug/L			04/30/24 03:19	1
Chlorobenzene	ND		1.0	ug/L			04/30/24 03:19	1
Chloroethane	ND		2.0	ug/L			04/30/24 03:19	1
Chloroform	ND		1.0	ug/L			04/30/24 03:19	1
Chloromethane	ND		3.0	ug/L			04/30/24 03:19	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/30/24 03:19	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			04/30/24 03:19	1
Dibromomethane	ND		1.0	ug/L			04/30/24 03:19	1
Dichlorodifluoromethane	ND		1.0	ug/L			04/30/24 03:19	1
Ethylbenzene	ND		1.0	ug/L			04/30/24 03:19	1
Hexachlorobutadiene	ND		1.0	ug/L			04/30/24 03:19	1
Isopropylbenzene	ND		1.0	ug/L			04/30/24 03:19	1

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Client Sample Results

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

Job ID: 885-3049-1

Client Sample ID: Trip Blank

Lab Sample ID: 885-3049-3

Date Collected: 04/17/24 00:00

Matrix: Water

Date Received: 04/18/24 08:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			04/30/24 03:19	1
Methylene Chloride	ND		3.0	ug/L			04/30/24 03:19	1
n-Butylbenzene	ND		3.0	ug/L			04/30/24 03:19	1
N-Propylbenzene	ND		1.0	ug/L			04/30/24 03:19	1
Naphthalene	ND		2.0	ug/L			04/30/24 03:19	1
sec-Butylbenzene	ND		1.0	ug/L			04/30/24 03:19	1
Styrene	ND		1.0	ug/L			04/30/24 03:19	1
tert-Butylbenzene	ND		1.0	ug/L			04/30/24 03:19	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			04/30/24 03:19	1
Toluene	ND		1.0	ug/L			04/30/24 03:19	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/30/24 03:19	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			04/30/24 03:19	1
Trichloroethene (TCE)	ND		1.0	ug/L			04/30/24 03:19	1
Trichlorofluoromethane	ND		1.0	ug/L			04/30/24 03:19	1
Vinyl chloride	ND		1.0	ug/L			04/30/24 03:19	1
Xylenes, Total	ND		1.5	ug/L			04/30/24 03:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/30/24 03:19	1
Toluene-d8 (Surr)	97		70 - 130		04/30/24 03:19	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/30/24 03:19	1
Dibromofluoromethane (Surr)	104		70 - 130		04/30/24 03:19	1

Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.0096	ug/L		04/23/24 09:00	04/23/24 15:56	1

QC Sample Results

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

Job ID: 885-3049-1

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

Lab Sample ID: MB 885-4113/3

Matrix: Water

Analysis Batch: 4113

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			04/30/24 00:28	1
1,1,1-Trichloroethane	ND		1.0	ug/L			04/30/24 00:28	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			04/30/24 00:28	1
1,1,2-Trichloroethane	ND		1.0	ug/L			04/30/24 00:28	1
1,1-Dichloroethane	ND		1.0	ug/L			04/30/24 00:28	1
1,1-Dichloroethene	ND		1.0	ug/L			04/30/24 00:28	1
1,1-Dichloropropene	ND		1.0	ug/L			04/30/24 00:28	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			04/30/24 00:28	1
1,2,3-Trichloropropane	ND		2.0	ug/L			04/30/24 00:28	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			04/30/24 00:28	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			04/30/24 00:28	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			04/30/24 00:28	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			04/30/24 00:28	1
1,2-Dichlorobenzene	ND		1.0	ug/L			04/30/24 00:28	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			04/30/24 00:28	1
1,2-Dichloropropane	ND		1.0	ug/L			04/30/24 00:28	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			04/30/24 00:28	1
1,3-Dichlorobenzene	ND		1.0	ug/L			04/30/24 00:28	1
1,3-Dichloropropane	ND		1.0	ug/L			04/30/24 00:28	1
1,4-Dichlorobenzene	ND		1.0	ug/L			04/30/24 00:28	1
1-Methylnaphthalene	ND		4.0	ug/L			04/30/24 00:28	1
2,2-Dichloropropane	ND		2.0	ug/L			04/30/24 00:28	1
2-Butanone	ND		10	ug/L			04/30/24 00:28	1
2-Chlorotoluene	ND		1.0	ug/L			04/30/24 00:28	1
2-Hexanone	ND		10	ug/L			04/30/24 00:28	1
2-Methylnaphthalene	ND		4.0	ug/L			04/30/24 00:28	1
4-Chlorotoluene	ND		1.0	ug/L			04/30/24 00:28	1
4-Isopropyltoluene	ND		1.0	ug/L			04/30/24 00:28	1
4-Methyl-2-pentanone	ND		10	ug/L			04/30/24 00:28	1
Acetone	ND		10	ug/L			04/30/24 00:28	1
Benzene	ND		1.0	ug/L			04/30/24 00:28	1
Bromobenzene	ND		1.0	ug/L			04/30/24 00:28	1
Bromodichloromethane	ND		1.0	ug/L			04/30/24 00:28	1
Dibromochloromethane	ND		1.0	ug/L			04/30/24 00:28	1
Bromoform	ND		1.0	ug/L			04/30/24 00:28	1
Bromomethane	ND		3.0	ug/L			04/30/24 00:28	1
Carbon disulfide	ND		10	ug/L			04/30/24 00:28	1
Carbon tetrachloride	ND		1.0	ug/L			04/30/24 00:28	1
Chlorobenzene	ND		1.0	ug/L			04/30/24 00:28	1
Chloroethane	ND		2.0	ug/L			04/30/24 00:28	1
Chloroform	ND		1.0	ug/L			04/30/24 00:28	1
Chloromethane	ND		3.0	ug/L			04/30/24 00:28	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			04/30/24 00:28	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			04/30/24 00:28	1
Dibromomethane	ND		1.0	ug/L			04/30/24 00:28	1
Dichlorodifluoromethane	ND		1.0	ug/L			04/30/24 00:28	1
Ethylbenzene	ND		1.0	ug/L			04/30/24 00:28	1
Hexachlorobutadiene	ND		1.0	ug/L			04/30/24 00:28	1

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QC Sample Results

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

Job ID: 885-3049-1

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

Lab Sample ID: MB 885-4113/3

Matrix: Water

Analysis Batch: 4113

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Isopropylbenzene	ND		1.0	ug/L			04/30/24 00:28	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			04/30/24 00:28	1
Methylene Chloride	ND		3.0	ug/L			04/30/24 00:28	1
n-Butylbenzene	ND		3.0	ug/L			04/30/24 00:28	1
N-Propylbenzene	ND		1.0	ug/L			04/30/24 00:28	1
Naphthalene	ND		2.0	ug/L			04/30/24 00:28	1
sec-Butylbenzene	ND		1.0	ug/L			04/30/24 00:28	1
Styrene	ND		1.0	ug/L			04/30/24 00:28	1
tert-Butylbenzene	ND		1.0	ug/L			04/30/24 00:28	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			04/30/24 00:28	1
Toluene	ND		1.0	ug/L			04/30/24 00:28	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			04/30/24 00:28	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			04/30/24 00:28	1
Trichloroethene (TCE)	ND		1.0	ug/L			04/30/24 00:28	1
Trichlorofluoromethane	ND		1.0	ug/L			04/30/24 00:28	1
Vinyl chloride	ND		1.0	ug/L			04/30/24 00:28	1
Xylenes, Total	ND		1.5	ug/L			04/30/24 00:28	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/30/24 00:28	1
Toluene-d8 (Surr)	94		70 - 130		04/30/24 00:28	1
4-Bromofluorobenzene (Surr)	100		70 - 130		04/30/24 00:28	1
Dibromofluoromethane (Surr)	106		70 - 130		04/30/24 00:28	1

Lab Sample ID: LCS 885-4113/2

Matrix: Water

Analysis Batch: 4113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.1	21.0		ug/L		105	70 - 130
Chlorobenzene	20.1	20.6		ug/L		103	70 - 130
Toluene	20.2	19.6		ug/L		97	70 - 130
Trichloroethene (TCE)	20.2	19.6		ug/L		97	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
Toluene-d8 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130

QC Sample Results

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

Job ID: 885-3049-1

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

Lab Sample ID: MB 885-3745/3
Matrix: Water
Analysis Batch: 3745

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050	mg/L			04/22/24 15:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 270				04/22/24 15:45	1

Lab Sample ID: LCS 885-3745/2
Matrix: Water
Analysis Batch: 3745

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	0.490		mg/L		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	220		15 - 270				

Lab Sample ID: 885-3049-2 MS
Matrix: Water
Analysis Batch: 3745

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
Gasoline Range Organics [C6 - C10]	2.0		2.50	4.35		mg/L		92	41 - 148
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	235		15 - 270						

Lab Sample ID: 885-3049-2 MSD
Matrix: Water
Analysis Batch: 3745

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
Gasoline Range Organics [C6 - C10]	2.0		2.50	4.27		mg/L		89	41 - 148	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	238		15 - 270								

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MB 885-3662/3-A
Matrix: Water
Analysis Batch: 3805

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3662

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.010	ug/L		04/23/24 09:00	04/23/24 14:46	1

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QC Sample Results

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

Job ID: 885-3049-1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCS 885-3662/4-A
Matrix: Water
Analysis Batch: 3805

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	0.100	0.0955		ug/L		96	70 - 130

Lab Sample ID: MRL 885-3662/1-A
Matrix: Water
Analysis Batch: 3805

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3662

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	0.0100	0.00841	J	ug/L		84	60 - 140

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

Lab Sample ID: MB 885-3684/1-A
Matrix: Water
Analysis Batch: 3794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3684

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	mg/L		04/22/24 15:02	04/23/24 16:11	1
Motor Oil Range Organics [C28-C40]	ND		5.0	mg/L		04/22/24 15:02	04/23/24 16:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	117		46 - 159	04/22/24 15:02	04/23/24 16:11	1

Lab Sample ID: LCS 885-3684/2-A
Matrix: Water
Analysis Batch: 3794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	2.50	2.88		mg/L		115	57 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	113		46 - 159

Lab Sample ID: 885-3049-1 MS
Matrix: Water
Analysis Batch: 3794

Client Sample ID: FY Treated EFF
Prep Type: Total/NA
Prep Batch: 3684

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		2.50	3.07		mg/L		94	33 - 161

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	93		46 - 159

QC Sample Results

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

Job ID: 885-3049-1

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

Lab Sample ID: 885-3049-1 MSD
Matrix: Water
Analysis Batch: 3794

Client Sample ID: FY Treated EFF
Prep Type: Total/NA
Prep Batch: 3684

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	3.26		mg/L		102	33 - 161	6	20
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
Di-n-octyl phthalate (Surr)	102		46 - 159								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-3566/4
Matrix: Water
Analysis Batch: 3566

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			04/18/24 12:33	1
Sulfate	ND		0.50	mg/L			04/18/24 12:33	1

Lab Sample ID: MB 885-3566/44
Matrix: Water
Analysis Batch: 3566

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			04/18/24 20:48	1
Sulfate	ND		0.50	mg/L			04/18/24 20:48	1

Lab Sample ID: LCS 885-3566/45
Matrix: Water
Analysis Batch: 3566

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	10.0		mg/L		100	90 - 110

Lab Sample ID: LCS 885-3566/5
Matrix: Water
Analysis Batch: 3566

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	4.98		mg/L		100	90 - 110
Sulfate	10.0	10.1		mg/L		101	90 - 110

Lab Sample ID: MRL 885-3566/3
Matrix: Water
Analysis Batch: 3566

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	0.546		mg/L		109	50 - 150
Sulfate	0.500	0.560		mg/L		112	50 - 150

QC Sample Results

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

Job ID: 885-3049-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-3567/4
 Matrix: Water
 Analysis Batch: 3567

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	ND		0.10	mg/L			04/18/24 12:33	1

Lab Sample ID: MB 885-3567/44
 Matrix: Water
 Analysis Batch: 3567

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	ND		0.10	mg/L			04/18/24 20:48	1

Lab Sample ID: LCS 885-3567/45
 Matrix: Water
 Analysis Batch: 3567

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate	2.50	2.59		mg/L		103	90 - 110

Lab Sample ID: LCS 885-3567/5
 Matrix: Water
 Analysis Batch: 3567

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate	2.50	2.60		mg/L		104	90 - 110

Lab Sample ID: MRL 885-3567/3
 Matrix: Water
 Analysis Batch: 3567

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

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

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

Lab Sample ID: MB 885-3597/1
 Matrix: Water
 Analysis Batch: 3597

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			04/19/24 13:54	1

Lab Sample ID: LCS 885-3597/2
 Matrix: Water
 Analysis Batch: 3597

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	1000		mg/L		100	80 - 120

QC Association Summary

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

Job ID: 885-3049-1

GC/MS VOA

Analysis Batch: 4113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3049-1	FY Treated EFF	Total/NA	Water	8260B	
885-3049-2	FY Raw	Total/NA	Water	8260B	
885-3049-3	Trip Blank	Total/NA	Water	8260B	
MB 885-4113/3	Method Blank	Total/NA	Water	8260B	
LCS 885-4113/2	Lab Control Sample	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 3745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3049-2	FY Raw	Total/NA	Water	8015D	
MB 885-3745/3	Method Blank	Total/NA	Water	8015D	
LCS 885-3745/2	Lab Control Sample	Total/NA	Water	8015D	
885-3049-2 MS	FY Raw	Total/NA	Water	8015D	
885-3049-2 MSD	FY Raw	Total/NA	Water	8015D	

Analysis Batch: 3798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3049-1	FY Treated EFF	Total/NA	Water	8015D	

GC Semi VOA

Prep Batch: 3662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3049-1	FY Treated EFF	Total/NA	Water	504.1	
885-3049-2	FY Raw	Total/NA	Water	504.1	
885-3049-3	Trip Blank	Total/NA	Water	504.1	
MB 885-3662/3-A	Method Blank	Total/NA	Water	504.1	
LCS 885-3662/4-A	Lab Control Sample	Total/NA	Water	504.1	
MRL 885-3662/1-A	Lab Control Sample	Total/NA	Water	504.1	

Prep Batch: 3684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3049-1	FY Treated EFF	Total/NA	Water	3511	
885-3049-2	FY Raw	Total/NA	Water	3511	
MB 885-3684/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-3684/2-A	Lab Control Sample	Total/NA	Water	3511	
885-3049-1 MS	FY Treated EFF	Total/NA	Water	3511	
885-3049-1 MSD	FY Treated EFF	Total/NA	Water	3511	

Analysis Batch: 3794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3049-1	FY Treated EFF	Total/NA	Water	8015D	3684
885-3049-2	FY Raw	Total/NA	Water	8015D	3684
MB 885-3684/1-A	Method Blank	Total/NA	Water	8015D	3684
LCS 885-3684/2-A	Lab Control Sample	Total/NA	Water	8015D	3684
885-3049-1 MS	FY Treated EFF	Total/NA	Water	8015D	3684
885-3049-1 MSD	FY Treated EFF	Total/NA	Water	8015D	3684

Analysis Batch: 3805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3049-3	Trip Blank	Total/NA	Water	504.1	3662

Eurofins Albuquerque



QC Association Summary

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

Job ID: 885-3049-1

GC Semi VOA (Continued)

Analysis Batch: 3805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-3662/3-A	Method Blank	Total/NA	Water	504.1	3662
LCS 885-3662/4-A	Lab Control Sample	Total/NA	Water	504.1	3662
MRL 885-3662/1-A	Lab Control Sample	Total/NA	Water	504.1	3662

Analysis Batch: 3847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3049-1	FY Treated EFF	Total/NA	Water	504.1	3662
885-3049-2	FY Raw	Total/NA	Water	504.1	3662

HPLC/IC

Analysis Batch: 3566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3049-1	FY Treated EFF	Total/NA	Water	300.0	
885-3049-2	FY Raw	Total/NA	Water	300.0	
885-3049-2	FY Raw	Total/NA	Water	300.0	
MB 885-3566/4	Method Blank	Total/NA	Water	300.0	
MB 885-3566/44	Method Blank	Total/NA	Water	300.0	
LCS 885-3566/45	Lab Control Sample	Total/NA	Water	300.0	
LCS 885-3566/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-3566/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 3567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3049-1	FY Treated EFF	Total/NA	Water	300.0	
885-3049-2	FY Raw	Total/NA	Water	300.0	
MB 885-3567/4	Method Blank	Total/NA	Water	300.0	
MB 885-3567/44	Method Blank	Total/NA	Water	300.0	
LCS 885-3567/45	Lab Control Sample	Total/NA	Water	300.0	
LCS 885-3567/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-3567/3	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 3597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3049-1	FY Treated EFF	Total/NA	Water	2540C	
885-3049-2	FY Raw	Total/NA	Water	2540C	
MB 885-3597/1	Method Blank	Total/NA	Water	2540C	
LCS 885-3597/2	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: 885-3049-1

Client Sample ID: FY Treated EFF

Lab Sample ID: 885-3049-1

Date Collected: 04/17/24 14:40

Matrix: Water

Date Received: 04/18/24 08:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	4113	CM	EET ALB	04/30/24 02:55
Total/NA	Analysis	8015D		1	3798	RA	EET ALB	04/23/24 17:39
Total/NA	Prep	504.1			3662	DH	EET ALB	04/23/24 09:00
Total/NA	Analysis	504.1		5	3847	DH	EET ALB	04/24/24 13:06
Total/NA	Prep	3511			3684	JU	EET ALB	04/22/24 15:02
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 18:13
Total/NA	Analysis	300.0		1	3567	SS	EET ALB	04/18/24 15:51
Total/NA	Analysis	300.0		20	3566	SS	EET ALB	04/18/24 16:03
Total/NA	Analysis	2540C		1	3597	JU	EET ALB	04/19/24 13:54

Client Sample ID: FY Raw

Lab Sample ID: 885-3049-2

Date Collected: 04/17/24 15:01

Matrix: Water

Date Received: 04/18/24 08:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	4113	CM	EET ALB	04/30/24 04:56
Total/NA	Analysis	8015D		5	3745	RA	EET ALB	04/23/24 03:57
Total/NA	Prep	504.1			3662	DH	EET ALB	04/23/24 09:00
Total/NA	Analysis	504.1		50	3847	DH	EET ALB	04/24/24 13:23
Total/NA	Prep	3511			3684	JU	EET ALB	04/22/24 15:02
Total/NA	Analysis	8015D		1	3794	JU	EET ALB	04/23/24 18:37
Total/NA	Analysis	300.0		1	3566	SS	EET ALB	04/18/24 16:16
Total/NA	Analysis	300.0		1	3567	SS	EET ALB	04/18/24 16:16
Total/NA	Analysis	300.0		20	3566	SS	EET ALB	04/18/24 16:28
Total/NA	Analysis	2540C		1	3597	JU	EET ALB	04/19/24 13:54

Client Sample ID: Trip Blank

Lab Sample ID: 885-3049-3

Date Collected: 04/17/24 00:00

Matrix: Water

Date Received: 04/18/24 08:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	4113	CM	EET ALB	04/30/24 03:19
Total/NA	Prep	504.1			3662	DH	EET ALB	04/23/24 09:00
Total/NA	Analysis	504.1		1	3805	DH	EET ALB	04/23/24 15:56

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.
 Project/Site: Former Y Station State Lead Site

Job ID: 885-3049-1

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
300.0		Water	Sulfate
504.1	504.1	Water	1,2-Dibromoethane
8015D		Water	Gasoline Range Organics [C6 - C10]
8015D	3511	Water	Diesel Range Organics [C10-C28]
8015D	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

Accreditation/Certification Summary

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

Job ID: 885-3049-1

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.			
<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
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.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
504.1	504.1	Water	1,2-Dibromoethane

Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-3049-1

Login Number: 3049

List Number: 1

Creator: Proctor, Nancy

List Source: Eurofins Albuquerque

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

 **ANALYTICAL REPORT****PREPARED FOR**

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

Generated 5/16/2024 9:44:11 AM

JOB DESCRIPTION

Former Y Station State Lead Site

JOB NUMBER

885-3785-1

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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5/16/2024 9:44:11 AM

Authorized for release by
John Caldwell, Project Manager
john.caldwell@et.eurofinsus.com
(505)345-3975



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Definitions/Glossary

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

Job ID: 885-3785-1

Qualifiers

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.

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

Case Narrative

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

Job ID: 885-3785-1

Job ID: 885-3785-1

Eurofins Albuquerque

Job Narrative 885-3785-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/1/2024 2:41 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 0.5°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.

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(s) was diluted due to the high concentration of target analytes. A more concentrated analysis was not possible. FY Raw (885-3785-2) and RW-2-2024-04-28 (885-3785-3). Surrogates were not recovered due to dilution.

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.

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-3785-1

Client Sample ID: FY Treated Eff

Lab Sample ID: 885-3785-1

Date Collected: 04/28/24 16:50

Matrix: Groundwater

Date Received: 05/01/24 14:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			05/06/24 18:29	1
1,1,1-Trichloroethane	ND		1.0	ug/L			05/06/24 18:29	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			05/06/24 18:29	1
1,1,2-Trichloroethane	ND		1.0	ug/L			05/06/24 18:29	1
1,1-Dichloroethane	ND		1.0	ug/L			05/06/24 18:29	1
1,1-Dichloroethene	ND		1.0	ug/L			05/06/24 18:29	1
1,1-Dichloropropene	ND		1.0	ug/L			05/06/24 18:29	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			05/06/24 18:29	1
1,2,3-Trichloropropane	ND		2.0	ug/L			05/06/24 18:29	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			05/06/24 18:29	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			05/06/24 18:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			05/06/24 18:29	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			05/06/24 18:29	1
1,2-Dichlorobenzene	ND		1.0	ug/L			05/06/24 18:29	1
1,2-Dichloroethane (EDC)	1.5		1.0	ug/L			05/06/24 18:29	1
1,2-Dichloropropane	ND		1.0	ug/L			05/06/24 18:29	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			05/06/24 18:29	1
1,3-Dichlorobenzene	ND		1.0	ug/L			05/06/24 18:29	1
1,3-Dichloropropane	ND		1.0	ug/L			05/06/24 18:29	1
1,4-Dichlorobenzene	ND		1.0	ug/L			05/06/24 18:29	1
1-Methylnaphthalene	ND		4.0	ug/L			05/06/24 18:29	1
2,2-Dichloropropane	ND		2.0	ug/L			05/06/24 18:29	1
2-Butanone	ND		10	ug/L			05/06/24 18:29	1
2-Chlorotoluene	ND		1.0	ug/L			05/06/24 18:29	1
2-Hexanone	ND		10	ug/L			05/06/24 18:29	1
2-Methylnaphthalene	ND		4.0	ug/L			05/06/24 18:29	1
4-Chlorotoluene	ND		1.0	ug/L			05/06/24 18:29	1
4-Isopropyltoluene	ND		1.0	ug/L			05/06/24 18:29	1
4-Methyl-2-pentanone	ND		10	ug/L			05/06/24 18:29	1
Acetone	16		10	ug/L			05/06/24 18:29	1
Benzene	ND		1.0	ug/L			05/06/24 18:29	1
Bromobenzene	ND		1.0	ug/L			05/06/24 18:29	1
Bromodichloromethane	ND		1.0	ug/L			05/06/24 18:29	1
Dibromochloromethane	ND		1.0	ug/L			05/06/24 18:29	1
Bromoform	ND		1.0	ug/L			05/06/24 18:29	1
Bromomethane	ND		3.0	ug/L			05/06/24 18:29	1
Carbon disulfide	ND		10	ug/L			05/06/24 18:29	1
Carbon tetrachloride	ND		1.0	ug/L			05/06/24 18:29	1
Chlorobenzene	ND		1.0	ug/L			05/06/24 18:29	1
Chloroethane	ND		2.0	ug/L			05/06/24 18:29	1
Chloroform	ND		1.0	ug/L			05/06/24 18:29	1
Chloromethane	ND		3.0	ug/L			05/06/24 18:29	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			05/06/24 18:29	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			05/06/24 18:29	1
Dibromomethane	ND		1.0	ug/L			05/06/24 18:29	1
Dichlorodifluoromethane	ND		1.0	ug/L			05/06/24 18:29	1
Ethylbenzene	ND		1.0	ug/L			05/06/24 18:29	1
Hexachlorobutadiene	ND		1.0	ug/L			05/06/24 18:29	1
Isopropylbenzene	ND		1.0	ug/L			05/06/24 18:29	1

Euofins Albuquerque

Client Sample Results

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

Job ID: 885-3785-1

Client Sample ID: FY Treated Eff

Lab Sample ID: 885-3785-1

Date Collected: 04/28/24 16:50

Matrix: Groundwater

Date Received: 05/01/24 14:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			05/06/24 18:29	1
Methylene Chloride	ND		3.0	ug/L			05/06/24 18:29	1
n-Butylbenzene	ND		3.0	ug/L			05/06/24 18:29	1
N-Propylbenzene	ND		1.0	ug/L			05/06/24 18:29	1
Naphthalene	ND		2.0	ug/L			05/06/24 18:29	1
sec-Butylbenzene	ND		1.0	ug/L			05/06/24 18:29	1
Styrene	ND		1.0	ug/L			05/06/24 18:29	1
tert-Butylbenzene	ND		1.0	ug/L			05/06/24 18:29	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			05/06/24 18:29	1
Toluene	ND		1.0	ug/L			05/06/24 18:29	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			05/06/24 18:29	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			05/06/24 18:29	1
Trichloroethene (TCE)	ND		1.0	ug/L			05/06/24 18:29	1
Trichlorofluoromethane	ND		1.0	ug/L			05/06/24 18:29	1
Vinyl chloride	ND		1.0	ug/L			05/06/24 18:29	1
Xylenes, Total	ND		1.5	ug/L			05/06/24 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	125		70 - 130		05/06/24 18:29	1
Toluene-d8 (Surr)	83		70 - 130		05/06/24 18:29	1
4-Bromofluorobenzene (Surr)	111		70 - 130		05/06/24 18:29	1
Dibromofluoromethane (Surr)	101		70 - 130		05/06/24 18:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		0.050	mg/L			05/07/24 23:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 270		05/07/24 23:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.22		0.047	ug/L		05/07/24 06:27	05/08/24 14:32	5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	mg/L		05/03/24 13:51	05/06/24 12:22	1
Motor Oil Range Organics [C28-C40]	ND		5.0	mg/L		05/03/24 13:51	05/06/24 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	104		46 - 159		05/03/24 13:51	05/06/24 12:22	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65		10	mg/L			05/03/24 09:15	20
Sulfate	43		0.50	mg/L			05/03/24 09:03	1
Nitrate Nitrite as N	ND		1.0	mg/L			05/03/24 20:22	5

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	460		50	mg/L			05/03/24 09:03	1

Euofins Albuquerque

Client Sample Results

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

Job ID: 885-3785-1

Client Sample ID: FY Raw

Lab Sample ID: 885-3785-2

Date Collected: 04/28/24 16:45

Matrix: Groundwater

Date Received: 05/01/24 14:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L			05/06/24 18:57	5
1,1,1-Trichloroethane	ND		5.0	ug/L			05/06/24 18:57	5
1,1,2,2-Tetrachloroethane	ND		10	ug/L			05/06/24 18:57	5
1,1,2-Trichloroethane	ND		5.0	ug/L			05/06/24 18:57	5
1,1-Dichloroethane	ND		5.0	ug/L			05/06/24 18:57	5
1,1-Dichloroethene	ND		5.0	ug/L			05/06/24 18:57	5
1,1-Dichloropropene	ND		5.0	ug/L			05/06/24 18:57	5
1,2,3-Trichlorobenzene	ND		5.0	ug/L			05/06/24 18:57	5
1,2,3-Trichloropropane	ND		10	ug/L			05/06/24 18:57	5
1,2,4-Trichlorobenzene	ND		5.0	ug/L			05/06/24 18:57	5
1,2,4-Trimethylbenzene	11		5.0	ug/L			05/06/24 18:57	5
1,2-Dibromo-3-Chloropropane	ND		10	ug/L			05/06/24 18:57	5
1,2-Dibromoethane (EDB)	12		5.0	ug/L			05/06/24 18:57	5
1,2-Dichlorobenzene	ND		5.0	ug/L			05/06/24 18:57	5
1,2-Dichloroethane (EDC)	130		5.0	ug/L			05/06/24 18:57	5
1,2-Dichloropropane	ND		5.0	ug/L			05/06/24 18:57	5
1,3,5-Trimethylbenzene	19		5.0	ug/L			05/06/24 18:57	5
1,3-Dichlorobenzene	ND		5.0	ug/L			05/06/24 18:57	5
1,3-Dichloropropane	ND		5.0	ug/L			05/06/24 18:57	5
1,4-Dichlorobenzene	ND		5.0	ug/L			05/06/24 18:57	5
1-Methylnaphthalene	ND		20	ug/L			05/06/24 18:57	5
2,2-Dichloropropane	ND		10	ug/L			05/06/24 18:57	5
2-Butanone	ND		50	ug/L			05/06/24 18:57	5
2-Chlorotoluene	ND		5.0	ug/L			05/06/24 18:57	5
2-Hexanone	ND		50	ug/L			05/06/24 18:57	5
2-Methylnaphthalene	ND		20	ug/L			05/06/24 18:57	5
4-Chlorotoluene	ND		5.0	ug/L			05/06/24 18:57	5
4-Isopropyltoluene	ND		5.0	ug/L			05/06/24 18:57	5
4-Methyl-2-pentanone	ND		50	ug/L			05/06/24 18:57	5
Acetone	ND		50	ug/L			05/06/24 18:57	5
Benzene	490		50	ug/L			05/07/24 09:57	50
Bromobenzene	ND		5.0	ug/L			05/06/24 18:57	5
Bromodichloromethane	ND		5.0	ug/L			05/06/24 18:57	5
Dibromochloromethane	ND		5.0	ug/L			05/06/24 18:57	5
Bromoform	ND		5.0	ug/L			05/06/24 18:57	5
Bromomethane	ND		15	ug/L			05/06/24 18:57	5
Carbon disulfide	ND		50	ug/L			05/06/24 18:57	5
Carbon tetrachloride	ND		5.0	ug/L			05/06/24 18:57	5
Chlorobenzene	ND		5.0	ug/L			05/06/24 18:57	5
Chloroethane	ND		10	ug/L			05/06/24 18:57	5
Chloroform	ND		5.0	ug/L			05/06/24 18:57	5
Chloromethane	ND		15	ug/L			05/06/24 18:57	5
cis-1,2-Dichloroethene	ND		5.0	ug/L			05/06/24 18:57	5
cis-1,3-Dichloropropene	ND		5.0	ug/L			05/06/24 18:57	5
Dibromomethane	ND		5.0	ug/L			05/06/24 18:57	5
Dichlorodifluoromethane	ND		5.0	ug/L			05/06/24 18:57	5
Ethylbenzene	7.5		5.0	ug/L			05/06/24 18:57	5
Hexachlorobutadiene	ND		5.0	ug/L			05/06/24 18:57	5
Isopropylbenzene	ND		5.0	ug/L			05/06/24 18:57	5

Euofins Albuquerque

Client Sample Results

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

Job ID: 885-3785-1

Client Sample ID: FY Raw

Lab Sample ID: 885-3785-2

Date Collected: 04/28/24 16:45

Matrix: Groundwater

Date Received: 05/01/24 14:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		5.0	ug/L			05/06/24 18:57	5
Methylene Chloride	ND		15	ug/L			05/06/24 18:57	5
n-Butylbenzene	ND		15	ug/L			05/06/24 18:57	5
N-Propylbenzene	ND		5.0	ug/L			05/06/24 18:57	5
Naphthalene	13		10	ug/L			05/06/24 18:57	5
sec-Butylbenzene	ND		5.0	ug/L			05/06/24 18:57	5
Styrene	ND		5.0	ug/L			05/06/24 18:57	5
tert-Butylbenzene	ND		5.0	ug/L			05/06/24 18:57	5
Tetrachloroethene (PCE)	ND		5.0	ug/L			05/06/24 18:57	5
Toluene	410		5.0	ug/L			05/06/24 18:57	5
trans-1,2-Dichloroethene	ND		5.0	ug/L			05/06/24 18:57	5
trans-1,3-Dichloropropene	ND		5.0	ug/L			05/06/24 18:57	5
Trichloroethene (TCE)	ND		5.0	ug/L			05/06/24 18:57	5
Trichlorofluoromethane	ND		5.0	ug/L			05/06/24 18:57	5
Vinyl chloride	ND		5.0	ug/L			05/06/24 18:57	5
Xylenes, Total	200		7.5	ug/L			05/06/24 18:57	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		70 - 130		05/06/24 18:57	5
1,2-Dichloroethane-d4 (Surr)	119		70 - 130		05/07/24 09:57	50
Toluene-d8 (Surr)	84		70 - 130		05/06/24 18:57	5
4-Bromofluorobenzene (Surr)	109		70 - 130		05/06/24 18:57	5
Dibromofluoromethane (Surr)	98		70 - 130		05/06/24 18:57	5
Dibromofluoromethane (Surr)	98		70 - 130		05/07/24 09:57	50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	3.2		0.050	mg/L			05/07/24 23:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149		15 - 270		05/07/24 23:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	9.5	D	0.96	ug/L		05/07/24 06:53	05/08/24 14:49	100

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.1		1.0	mg/L		05/03/24 13:51	05/06/24 12:46	1
Motor Oil Range Organics [C28-C40]	ND		5.0	mg/L		05/03/24 13:51	05/06/24 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		46 - 159		05/03/24 13:51	05/06/24 12:46

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64		10	mg/L			05/03/24 09:40	20
Sulfate	43		0.50	mg/L			05/03/24 09:28	1
Nitrate Nitrite as N	ND		1.0	mg/L			05/03/24 20:35	5

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-3785-1

Client Sample ID: FY Raw

Lab Sample ID: 885-3785-2

Date Collected: 04/28/24 16:45

Matrix: Groundwater

Date Received: 05/01/24 14:41

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	470		100	mg/L			05/03/24 09:03	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

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

Job ID: 885-3785-1

Client Sample ID: RW-2-2024-04-28

Lab Sample ID: 885-3785-3

Date Collected: 04/28/24 16:13

Matrix: Groundwater

Date Received: 05/01/24 14:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L			05/06/24 19:26	5
1,1,1-Trichloroethane	ND		5.0	ug/L			05/06/24 19:26	5
1,1,2,2-Tetrachloroethane	ND		10	ug/L			05/06/24 19:26	5
1,1,2-Trichloroethane	ND		5.0	ug/L			05/06/24 19:26	5
1,1-Dichloroethane	ND		5.0	ug/L			05/06/24 19:26	5
1,1-Dichloroethene	ND		5.0	ug/L			05/06/24 19:26	5
1,1-Dichloropropene	ND		5.0	ug/L			05/06/24 19:26	5
1,2,3-Trichlorobenzene	ND		5.0	ug/L			05/06/24 19:26	5
1,2,3-Trichloropropane	ND		10	ug/L			05/06/24 19:26	5
1,2,4-Trichlorobenzene	ND		5.0	ug/L			05/06/24 19:26	5
1,2,4-Trimethylbenzene	470		50	ug/L			05/08/24 11:30	50
1,2-Dibromo-3-Chloropropane	ND		10	ug/L			05/06/24 19:26	5
1,2-Dibromoethane (EDB)	17		5.0	ug/L			05/06/24 19:26	5
1,2-Dichlorobenzene	ND		5.0	ug/L			05/06/24 19:26	5
1,2-Dichloroethane (EDC)	26		5.0	ug/L			05/06/24 19:26	5
1,2-Dichloropropane	ND		5.0	ug/L			05/06/24 19:26	5
1,3,5-Trimethylbenzene	150		5.0	ug/L			05/06/24 19:26	5
1,3-Dichlorobenzene	ND		5.0	ug/L			05/06/24 19:26	5
1,3-Dichloropropane	ND		5.0	ug/L			05/06/24 19:26	5
1,4-Dichlorobenzene	ND		5.0	ug/L			05/06/24 19:26	5
1-Methylnaphthalene	42		20	ug/L			05/06/24 19:26	5
2,2-Dichloropropane	ND		10	ug/L			05/06/24 19:26	5
2-Butanone	ND		50	ug/L			05/06/24 19:26	5
2-Chlorotoluene	ND		5.0	ug/L			05/06/24 19:26	5
2-Hexanone	ND		50	ug/L			05/06/24 19:26	5
2-Methylnaphthalene	78		20	ug/L			05/06/24 19:26	5
4-Chlorotoluene	ND		5.0	ug/L			05/06/24 19:26	5
4-Isopropyltoluene	5.5		5.0	ug/L			05/06/24 19:26	5
4-Methyl-2-pentanone	ND		50	ug/L			05/06/24 19:26	5
Acetone	300		50	ug/L			05/06/24 19:26	5
Benzene	100		5.0	ug/L			05/06/24 19:26	5
Bromobenzene	ND		5.0	ug/L			05/06/24 19:26	5
Bromodichloromethane	ND		5.0	ug/L			05/06/24 19:26	5
Dibromochloromethane	ND		5.0	ug/L			05/06/24 19:26	5
Bromoform	ND		5.0	ug/L			05/06/24 19:26	5
Bromomethane	ND		15	ug/L			05/06/24 19:26	5
Carbon disulfide	ND		50	ug/L			05/06/24 19:26	5
Carbon tetrachloride	ND		5.0	ug/L			05/06/24 19:26	5
Chlorobenzene	ND		5.0	ug/L			05/06/24 19:26	5
Chloroethane	ND		10	ug/L			05/06/24 19:26	5
Chloroform	ND		5.0	ug/L			05/06/24 19:26	5
Chloromethane	ND		15	ug/L			05/06/24 19:26	5
cis-1,2-Dichloroethene	ND		5.0	ug/L			05/06/24 19:26	5
cis-1,3-Dichloropropene	ND		5.0	ug/L			05/06/24 19:26	5
Dibromomethane	ND		5.0	ug/L			05/06/24 19:26	5
Dichlorodifluoromethane	ND		5.0	ug/L			05/06/24 19:26	5
Ethylbenzene	130		5.0	ug/L			05/06/24 19:26	5
Hexachlorobutadiene	ND		5.0	ug/L			05/06/24 19:26	5
Isopropylbenzene	14		5.0	ug/L			05/06/24 19:26	5

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Client Sample Results

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

Job ID: 885-3785-1

Client Sample ID: RW-2-2024-04-28

Lab Sample ID: 885-3785-3

Date Collected: 04/28/24 16:13

Matrix: Groundwater

Date Received: 05/01/24 14:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		5.0	ug/L			05/06/24 19:26	5
Methylene Chloride	ND		15	ug/L			05/06/24 19:26	5
n-Butylbenzene	16		15	ug/L			05/06/24 19:26	5
N-Propylbenzene	43		5.0	ug/L			05/06/24 19:26	5
Naphthalene	130		10	ug/L			05/06/24 19:26	5
sec-Butylbenzene	6.4		5.0	ug/L			05/06/24 19:26	5
Styrene	ND		5.0	ug/L			05/06/24 19:26	5
tert-Butylbenzene	ND		5.0	ug/L			05/06/24 19:26	5
Tetrachloroethene (PCE)	ND		5.0	ug/L			05/06/24 19:26	5
Toluene	690		50	ug/L			05/08/24 11:30	50
trans-1,2-Dichloroethene	ND		5.0	ug/L			05/06/24 19:26	5
trans-1,3-Dichloropropene	ND		5.0	ug/L			05/06/24 19:26	5
Trichloroethene (TCE)	ND		5.0	ug/L			05/06/24 19:26	5
Trichlorofluoromethane	ND		5.0	ug/L			05/06/24 19:26	5
Vinyl chloride	ND		5.0	ug/L			05/06/24 19:26	5
Xylenes, Total	1600		75	ug/L			05/08/24 11:30	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		70 - 130		05/06/24 19:26	5
Toluene-d8 (Surr)	85		70 - 130		05/06/24 19:26	5
Toluene-d8 (Surr)	85		70 - 130		05/08/24 11:30	50
4-Bromofluorobenzene (Surr)	110		70 - 130		05/06/24 19:26	5
4-Bromofluorobenzene (Surr)	108		70 - 130		05/08/24 11:30	50
Dibromofluoromethane (Surr)	97		70 - 130		05/06/24 19:26	5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	16	D	1.9	ug/L		05/07/24 06:53	05/08/24 15:06	200

Client Sample Results

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

Job ID: 885-3785-1

Client Sample ID: Trip Blank

Lab Sample ID: 885-3785-4

Date Collected: 04/28/24 00:00

Matrix: Trip Blank

Date Received: 05/01/24 14:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			05/06/24 19:54	1
1,1,1-Trichloroethane	ND		1.0	ug/L			05/06/24 19:54	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			05/06/24 19:54	1
1,1,2-Trichloroethane	ND		1.0	ug/L			05/06/24 19:54	1
1,1-Dichloroethane	ND		1.0	ug/L			05/06/24 19:54	1
1,1-Dichloroethene	ND		1.0	ug/L			05/06/24 19:54	1
1,1-Dichloropropene	ND		1.0	ug/L			05/06/24 19:54	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			05/06/24 19:54	1
1,2,3-Trichloropropane	ND		2.0	ug/L			05/06/24 19:54	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			05/06/24 19:54	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			05/06/24 19:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			05/06/24 19:54	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			05/06/24 19:54	1
1,2-Dichlorobenzene	ND		1.0	ug/L			05/06/24 19:54	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			05/06/24 19:54	1
1,2-Dichloropropane	ND		1.0	ug/L			05/06/24 19:54	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			05/06/24 19:54	1
1,3-Dichlorobenzene	ND		1.0	ug/L			05/06/24 19:54	1
1,3-Dichloropropane	ND		1.0	ug/L			05/06/24 19:54	1
1,4-Dichlorobenzene	ND		1.0	ug/L			05/06/24 19:54	1
1-Methylnaphthalene	ND		4.0	ug/L			05/06/24 19:54	1
2,2-Dichloropropane	ND		2.0	ug/L			05/06/24 19:54	1
2-Butanone	ND		10	ug/L			05/06/24 19:54	1
2-Chlorotoluene	ND		1.0	ug/L			05/06/24 19:54	1
2-Hexanone	ND		10	ug/L			05/06/24 19:54	1
2-Methylnaphthalene	ND		4.0	ug/L			05/06/24 19:54	1
4-Chlorotoluene	ND		1.0	ug/L			05/06/24 19:54	1
4-Isopropyltoluene	ND		1.0	ug/L			05/06/24 19:54	1
4-Methyl-2-pentanone	ND		10	ug/L			05/06/24 19:54	1
Acetone	ND		10	ug/L			05/06/24 19:54	1
Benzene	ND		1.0	ug/L			05/06/24 19:54	1
Bromobenzene	ND		1.0	ug/L			05/06/24 19:54	1
Bromodichloromethane	ND		1.0	ug/L			05/06/24 19:54	1
Dibromochloromethane	ND		1.0	ug/L			05/06/24 19:54	1
Bromoform	ND		1.0	ug/L			05/06/24 19:54	1
Bromomethane	ND		3.0	ug/L			05/06/24 19:54	1
Carbon disulfide	ND		10	ug/L			05/06/24 19:54	1
Carbon tetrachloride	ND		1.0	ug/L			05/06/24 19:54	1
Chlorobenzene	ND		1.0	ug/L			05/06/24 19:54	1
Chloroethane	ND		2.0	ug/L			05/06/24 19:54	1
Chloroform	ND		1.0	ug/L			05/06/24 19:54	1
Chloromethane	ND		3.0	ug/L			05/06/24 19:54	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			05/06/24 19:54	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			05/06/24 19:54	1
Dibromomethane	ND		1.0	ug/L			05/06/24 19:54	1
Dichlorodifluoromethane	ND		1.0	ug/L			05/06/24 19:54	1
Ethylbenzene	ND		1.0	ug/L			05/06/24 19:54	1
Hexachlorobutadiene	ND		1.0	ug/L			05/06/24 19:54	1
Isopropylbenzene	ND		1.0	ug/L			05/06/24 19:54	1

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Client Sample Results

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

Job ID: 885-3785-1

Client Sample ID: Trip Blank

Lab Sample ID: 885-3785-4

Date Collected: 04/28/24 00:00

Matrix: Trip Blank

Date Received: 05/01/24 14:41

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			05/06/24 19:54	1
Methylene Chloride	ND		3.0	ug/L			05/06/24 19:54	1
n-Butylbenzene	ND		3.0	ug/L			05/06/24 19:54	1
N-Propylbenzene	ND		1.0	ug/L			05/06/24 19:54	1
Naphthalene	ND		2.0	ug/L			05/06/24 19:54	1
sec-Butylbenzene	ND		1.0	ug/L			05/06/24 19:54	1
Styrene	ND		1.0	ug/L			05/06/24 19:54	1
tert-Butylbenzene	ND		1.0	ug/L			05/06/24 19:54	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			05/06/24 19:54	1
Toluene	ND		1.0	ug/L			05/06/24 19:54	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			05/06/24 19:54	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			05/06/24 19:54	1
Trichloroethene (TCE)	ND		1.0	ug/L			05/06/24 19:54	1
Trichlorofluoromethane	ND		1.0	ug/L			05/06/24 19:54	1
Vinyl chloride	ND		1.0	ug/L			05/06/24 19:54	1
Xylenes, Total	ND		1.5	ug/L			05/06/24 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		70 - 130		05/06/24 19:54	1
Toluene-d8 (Surr)	84		70 - 130		05/06/24 19:54	1
4-Bromofluorobenzene (Surr)	111		70 - 130		05/06/24 19:54	1
Dibromofluoromethane (Surr)	99		70 - 130		05/06/24 19:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0094	ug/L		05/07/24 06:53	05/07/24 15:58	1

QC Sample Results

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

Job ID: 885-3785-1

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

Lab Sample ID: MB 885-4462/3

Matrix: Water

Analysis Batch: 4462

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			05/06/24 09:54	1
1,1,1-Trichloroethane	ND		1.0	ug/L			05/06/24 09:54	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			05/06/24 09:54	1
1,1,2-Trichloroethane	ND		1.0	ug/L			05/06/24 09:54	1
1,1-Dichloroethane	ND		1.0	ug/L			05/06/24 09:54	1
1,1-Dichloroethene	ND		1.0	ug/L			05/06/24 09:54	1
1,1-Dichloropropene	ND		1.0	ug/L			05/06/24 09:54	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			05/06/24 09:54	1
1,2,3-Trichloropropane	ND		2.0	ug/L			05/06/24 09:54	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			05/06/24 09:54	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			05/06/24 09:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			05/06/24 09:54	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			05/06/24 09:54	1
1,2-Dichlorobenzene	ND		1.0	ug/L			05/06/24 09:54	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			05/06/24 09:54	1
1,2-Dichloropropane	ND		1.0	ug/L			05/06/24 09:54	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			05/06/24 09:54	1
1,3-Dichlorobenzene	ND		1.0	ug/L			05/06/24 09:54	1
1,3-Dichloropropane	ND		1.0	ug/L			05/06/24 09:54	1
1,4-Dichlorobenzene	ND		1.0	ug/L			05/06/24 09:54	1
1-Methylnaphthalene	ND		4.0	ug/L			05/06/24 09:54	1
2,2-Dichloropropane	ND		2.0	ug/L			05/06/24 09:54	1
2-Butanone	ND		10	ug/L			05/06/24 09:54	1
2-Chlorotoluene	ND		1.0	ug/L			05/06/24 09:54	1
2-Hexanone	ND		10	ug/L			05/06/24 09:54	1
2-Methylnaphthalene	ND		4.0	ug/L			05/06/24 09:54	1
4-Chlorotoluene	ND		1.0	ug/L			05/06/24 09:54	1
4-Isopropyltoluene	ND		1.0	ug/L			05/06/24 09:54	1
4-Methyl-2-pentanone	ND		10	ug/L			05/06/24 09:54	1
Acetone	ND		10	ug/L			05/06/24 09:54	1
Benzene	ND		1.0	ug/L			05/06/24 09:54	1
Bromobenzene	ND		1.0	ug/L			05/06/24 09:54	1
Bromodichloromethane	ND		1.0	ug/L			05/06/24 09:54	1
Dibromochloromethane	ND		1.0	ug/L			05/06/24 09:54	1
Bromoform	ND		1.0	ug/L			05/06/24 09:54	1
Bromomethane	ND		3.0	ug/L			05/06/24 09:54	1
Carbon disulfide	ND		10	ug/L			05/06/24 09:54	1
Carbon tetrachloride	ND		1.0	ug/L			05/06/24 09:54	1
Chlorobenzene	ND		1.0	ug/L			05/06/24 09:54	1
Chloroethane	ND		2.0	ug/L			05/06/24 09:54	1
Chloroform	ND		1.0	ug/L			05/06/24 09:54	1
Chloromethane	ND		3.0	ug/L			05/06/24 09:54	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			05/06/24 09:54	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			05/06/24 09:54	1
Dibromomethane	ND		1.0	ug/L			05/06/24 09:54	1
Dichlorodifluoromethane	ND		1.0	ug/L			05/06/24 09:54	1
Ethylbenzene	ND		1.0	ug/L			05/06/24 09:54	1
Hexachlorobutadiene	ND		1.0	ug/L			05/06/24 09:54	1

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QC Sample Results

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

Job ID: 885-3785-1

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

Lab Sample ID: MB 885-4462/3
Matrix: Water
Analysis Batch: 4462

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Isopropylbenzene	ND		1.0	ug/L			05/06/24 09:54	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			05/06/24 09:54	1
Methylene Chloride	ND		3.0	ug/L			05/06/24 09:54	1
n-Butylbenzene	ND		3.0	ug/L			05/06/24 09:54	1
N-Propylbenzene	ND		1.0	ug/L			05/06/24 09:54	1
Naphthalene	ND		2.0	ug/L			05/06/24 09:54	1
sec-Butylbenzene	ND		1.0	ug/L			05/06/24 09:54	1
Styrene	ND		1.0	ug/L			05/06/24 09:54	1
tert-Butylbenzene	ND		1.0	ug/L			05/06/24 09:54	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			05/06/24 09:54	1
Toluene	ND		1.0	ug/L			05/06/24 09:54	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			05/06/24 09:54	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			05/06/24 09:54	1
Trichloroethene (TCE)	ND		1.0	ug/L			05/06/24 09:54	1
Trichlorofluoromethane	ND		1.0	ug/L			05/06/24 09:54	1
Vinyl chloride	ND		1.0	ug/L			05/06/24 09:54	1
Xylenes, Total	ND		1.5	ug/L			05/06/24 09:54	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	115		70 - 130		05/06/24 09:54	1
Toluene-d8 (Surr)	85		70 - 130		05/06/24 09:54	1
4-Bromofluorobenzene (Surr)	111		70 - 130		05/06/24 09:54	1
Dibromofluoromethane (Surr)	94		70 - 130		05/06/24 09:54	1

Lab Sample ID: LCS 885-4462/2
Matrix: Water
Analysis Batch: 4462

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1-Dichloroethene	20.1	21.7		ug/L		108	70 - 130
Benzene	20.1	20.3		ug/L		101	70 - 130
Chlorobenzene	20.1	17.0		ug/L		85	70 - 130
Toluene	20.2	17.6		ug/L		87	70 - 130
Trichloroethene (TCE)	20.2	17.5		ug/L		87	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
Toluene-d8 (Surr)	87		70 - 130
4-Bromofluorobenzene (Surr)	110		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130

Lab Sample ID: MB 885-4552/3
Matrix: Water
Analysis Batch: 4552

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			05/07/24 09:29	1
1,1,1-Trichloroethane	ND		1.0	ug/L			05/07/24 09:29	1

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QC Sample Results

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

Job ID: 885-3785-1

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

Lab Sample ID: MB 885-4552/3

Matrix: Water

Analysis Batch: 4552

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		2.0	ug/L			05/07/24 09:29	1
1,1,2-Trichloroethane	ND		1.0	ug/L			05/07/24 09:29	1
1,1-Dichloroethane	ND		1.0	ug/L			05/07/24 09:29	1
1,1-Dichloroethene	ND		1.0	ug/L			05/07/24 09:29	1
1,1-Dichloropropene	ND		1.0	ug/L			05/07/24 09:29	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			05/07/24 09:29	1
1,2,3-Trichloropropane	ND		2.0	ug/L			05/07/24 09:29	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			05/07/24 09:29	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			05/07/24 09:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			05/07/24 09:29	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			05/07/24 09:29	1
1,2-Dichlorobenzene	ND		1.0	ug/L			05/07/24 09:29	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			05/07/24 09:29	1
1,2-Dichloropropane	ND		1.0	ug/L			05/07/24 09:29	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			05/07/24 09:29	1
1,3-Dichlorobenzene	ND		1.0	ug/L			05/07/24 09:29	1
1,3-Dichloropropane	ND		1.0	ug/L			05/07/24 09:29	1
1,4-Dichlorobenzene	ND		1.0	ug/L			05/07/24 09:29	1
1-Methylnaphthalene	ND		4.0	ug/L			05/07/24 09:29	1
2,2-Dichloropropane	ND		2.0	ug/L			05/07/24 09:29	1
2-Butanone	ND		10	ug/L			05/07/24 09:29	1
2-Chlorotoluene	ND		1.0	ug/L			05/07/24 09:29	1
2-Hexanone	ND		10	ug/L			05/07/24 09:29	1
2-Methylnaphthalene	ND		4.0	ug/L			05/07/24 09:29	1
4-Chlorotoluene	ND		1.0	ug/L			05/07/24 09:29	1
4-Isopropyltoluene	ND		1.0	ug/L			05/07/24 09:29	1
4-Methyl-2-pentanone	ND		10	ug/L			05/07/24 09:29	1
Acetone	ND		10	ug/L			05/07/24 09:29	1
Benzene	ND		1.0	ug/L			05/07/24 09:29	1
Bromobenzene	ND		1.0	ug/L			05/07/24 09:29	1
Bromodichloromethane	ND		1.0	ug/L			05/07/24 09:29	1
Dibromochloromethane	ND		1.0	ug/L			05/07/24 09:29	1
Bromoform	ND		1.0	ug/L			05/07/24 09:29	1
Bromomethane	ND		3.0	ug/L			05/07/24 09:29	1
Carbon disulfide	ND		10	ug/L			05/07/24 09:29	1
Carbon tetrachloride	ND		1.0	ug/L			05/07/24 09:29	1
Chlorobenzene	ND		1.0	ug/L			05/07/24 09:29	1
Chloroethane	ND		2.0	ug/L			05/07/24 09:29	1
Chloroform	ND		1.0	ug/L			05/07/24 09:29	1
Chloromethane	ND		3.0	ug/L			05/07/24 09:29	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			05/07/24 09:29	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			05/07/24 09:29	1
Dibromomethane	ND		1.0	ug/L			05/07/24 09:29	1
Dichlorodifluoromethane	ND		1.0	ug/L			05/07/24 09:29	1
Ethylbenzene	ND		1.0	ug/L			05/07/24 09:29	1
Hexachlorobutadiene	ND		1.0	ug/L			05/07/24 09:29	1
Isopropylbenzene	ND		1.0	ug/L			05/07/24 09:29	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			05/07/24 09:29	1
Methylene Chloride	ND		3.0	ug/L			05/07/24 09:29	1

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QC Sample Results

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

Job ID: 885-3785-1

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

Lab Sample ID: MB 885-4552/3

Matrix: Water

Analysis Batch: 4552

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
n-Butylbenzene	ND		3.0	ug/L			05/07/24 09:29	1
N-Propylbenzene	ND		1.0	ug/L			05/07/24 09:29	1
Naphthalene	ND		2.0	ug/L			05/07/24 09:29	1
sec-Butylbenzene	ND		1.0	ug/L			05/07/24 09:29	1
Styrene	ND		1.0	ug/L			05/07/24 09:29	1
tert-Butylbenzene	ND		1.0	ug/L			05/07/24 09:29	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			05/07/24 09:29	1
Toluene	ND		1.0	ug/L			05/07/24 09:29	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			05/07/24 09:29	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			05/07/24 09:29	1
Trichloroethene (TCE)	ND		1.0	ug/L			05/07/24 09:29	1
Trichlorofluoromethane	ND		1.0	ug/L			05/07/24 09:29	1
Vinyl chloride	ND		1.0	ug/L			05/07/24 09:29	1
Xylenes, Total	ND		1.5	ug/L			05/07/24 09:29	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	119		70 - 130		05/07/24 09:29	1
Toluene-d8 (Surr)	85		70 - 130		05/07/24 09:29	1
4-Bromofluorobenzene (Surr)	109		70 - 130		05/07/24 09:29	1
Dibromofluoromethane (Surr)	97		70 - 130		05/07/24 09:29	1

Lab Sample ID: LCS 885-4552/2

Matrix: Water

Analysis Batch: 4552

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.1	22.0		ug/L		110	70 - 130
Chlorobenzene	20.1	17.4		ug/L		87	70 - 130
Toluene	20.2	17.9		ug/L		89	70 - 130
Trichloroethene (TCE)	20.2	18.8		ug/L		93	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	119		70 - 130
Toluene-d8 (Surr)	86		70 - 130
4-Bromofluorobenzene (Surr)	113		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130

Lab Sample ID: MB 885-4652/3

Matrix: Water

Analysis Batch: 4652

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L			05/08/24 11:01	1
1,1,1-Trichloroethane	ND		1.0	ug/L			05/08/24 11:01	1
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L			05/08/24 11:01	1
1,1,2-Trichloroethane	ND		1.0	ug/L			05/08/24 11:01	1
1,1-Dichloroethane	ND		1.0	ug/L			05/08/24 11:01	1

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QC Sample Results

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

Job ID: 885-3785-1

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

Lab Sample ID: MB 885-4652/3

Matrix: Water

Analysis Batch: 4652

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1,1-Dichloroethene	ND		1.0	ug/L			05/08/24 11:01	1
1,1-Dichloropropene	ND		1.0	ug/L			05/08/24 11:01	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L			05/08/24 11:01	1
1,2,3-Trichloropropane	ND		2.0	ug/L			05/08/24 11:01	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L			05/08/24 11:01	1
1,2,4-Trimethylbenzene	ND		1.0	ug/L			05/08/24 11:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0	ug/L			05/08/24 11:01	1
1,2-Dibromoethane (EDB)	ND		1.0	ug/L			05/08/24 11:01	1
1,2-Dichlorobenzene	ND		1.0	ug/L			05/08/24 11:01	1
1,2-Dichloroethane (EDC)	ND		1.0	ug/L			05/08/24 11:01	1
1,2-Dichloropropane	ND		1.0	ug/L			05/08/24 11:01	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L			05/08/24 11:01	1
1,3-Dichlorobenzene	ND		1.0	ug/L			05/08/24 11:01	1
1,3-Dichloropropane	ND		1.0	ug/L			05/08/24 11:01	1
1,4-Dichlorobenzene	ND		1.0	ug/L			05/08/24 11:01	1
1-Methylnaphthalene	ND		4.0	ug/L			05/08/24 11:01	1
2,2-Dichloropropane	ND		2.0	ug/L			05/08/24 11:01	1
2-Butanone	ND		10	ug/L			05/08/24 11:01	1
2-Chlorotoluene	ND		1.0	ug/L			05/08/24 11:01	1
2-Hexanone	ND		10	ug/L			05/08/24 11:01	1
2-Methylnaphthalene	ND		4.0	ug/L			05/08/24 11:01	1
4-Chlorotoluene	ND		1.0	ug/L			05/08/24 11:01	1
4-Isopropyltoluene	ND		1.0	ug/L			05/08/24 11:01	1
4-Methyl-2-pentanone	ND		10	ug/L			05/08/24 11:01	1
Acetone	ND		10	ug/L			05/08/24 11:01	1
Benzene	ND		1.0	ug/L			05/08/24 11:01	1
Bromobenzene	ND		1.0	ug/L			05/08/24 11:01	1
Bromodichloromethane	ND		1.0	ug/L			05/08/24 11:01	1
Dibromochloromethane	ND		1.0	ug/L			05/08/24 11:01	1
Bromoform	ND		1.0	ug/L			05/08/24 11:01	1
Bromomethane	ND		3.0	ug/L			05/08/24 11:01	1
Carbon disulfide	ND		10	ug/L			05/08/24 11:01	1
Carbon tetrachloride	ND		1.0	ug/L			05/08/24 11:01	1
Chlorobenzene	ND		1.0	ug/L			05/08/24 11:01	1
Chloroethane	ND		2.0	ug/L			05/08/24 11:01	1
Chloroform	ND		1.0	ug/L			05/08/24 11:01	1
Chloromethane	ND		3.0	ug/L			05/08/24 11:01	1
cis-1,2-Dichloroethene	ND		1.0	ug/L			05/08/24 11:01	1
cis-1,3-Dichloropropene	ND		1.0	ug/L			05/08/24 11:01	1
Dibromomethane	ND		1.0	ug/L			05/08/24 11:01	1
Dichlorodifluoromethane	ND		1.0	ug/L			05/08/24 11:01	1
Ethylbenzene	ND		1.0	ug/L			05/08/24 11:01	1
Hexachlorobutadiene	ND		1.0	ug/L			05/08/24 11:01	1
Isopropylbenzene	ND		1.0	ug/L			05/08/24 11:01	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0	ug/L			05/08/24 11:01	1
Methylene Chloride	ND		3.0	ug/L			05/08/24 11:01	1
n-Butylbenzene	ND		3.0	ug/L			05/08/24 11:01	1
N-Propylbenzene	ND		1.0	ug/L			05/08/24 11:01	1
Naphthalene	ND		2.0	ug/L			05/08/24 11:01	1

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QC Sample Results

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

Job ID: 885-3785-1

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

Lab Sample ID: MB 885-4652/3
Matrix: Water
Analysis Batch: 4652

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
sec-Butylbenzene	ND		1.0	ug/L			05/08/24 11:01	1
Styrene	ND		1.0	ug/L			05/08/24 11:01	1
tert-Butylbenzene	ND		1.0	ug/L			05/08/24 11:01	1
Tetrachloroethene (PCE)	ND		1.0	ug/L			05/08/24 11:01	1
Toluene	ND		1.0	ug/L			05/08/24 11:01	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			05/08/24 11:01	1
trans-1,3-Dichloropropene	ND		1.0	ug/L			05/08/24 11:01	1
Trichloroethene (TCE)	ND		1.0	ug/L			05/08/24 11:01	1
Trichlorofluoromethane	ND		1.0	ug/L			05/08/24 11:01	1
Vinyl chloride	ND		1.0	ug/L			05/08/24 11:01	1
Xylenes, Total	ND		1.5	ug/L			05/08/24 11:01	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	116		70 - 130		05/08/24 11:01	1
Toluene-d8 (Surr)	85		70 - 130		05/08/24 11:01	1
4-Bromofluorobenzene (Surr)	109		70 - 130		05/08/24 11:01	1
Dibromofluoromethane (Surr)	97		70 - 130		05/08/24 11:01	1

Lab Sample ID: LCS 885-4652/2
Matrix: Water
Analysis Batch: 4652

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1-Dichloroethene	20.1	22.9		ug/L		114	70 - 130
Benzene	20.1	21.1		ug/L		105	70 - 130
Chlorobenzene	20.1	16.1		ug/L		80	70 - 130
Toluene	20.2	17.0		ug/L		84	70 - 130
Trichloroethene (TCE)	20.2	18.2		ug/L		90	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	115		70 - 130
Toluene-d8 (Surr)	84		70 - 130
4-Bromofluorobenzene (Surr)	110		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130

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

Lab Sample ID: MB 885-4543/5
Matrix: Water
Analysis Batch: 4543

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics [C6 - C10]	ND		0.050	mg/L			05/07/24 13:01	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	99		15 - 270		05/07/24 13:01	1

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QC Sample Results

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

Job ID: 885-3785-1

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

Lab Sample ID: LCS 885-4543/4
Matrix: Water
Analysis Batch: 4543

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	0.508		mg/L		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	211		15 - 270

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

Lab Sample ID: MB 885-4458/3-A
Matrix: Water
Analysis Batch: 4638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4458

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.010	ug/L		05/07/24 06:27	05/07/24 14:32	1

Lab Sample ID: LCS 885-4458/4-A
Matrix: Water
Analysis Batch: 4638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4458

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide	0.100	0.0943		ug/L		94	70 - 130

Lab Sample ID: MRL 885-4458/1-A
Matrix: Water
Analysis Batch: 4638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4458

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide	0.0100	0.0104		ug/L		104	60 - 140

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

Lab Sample ID: MB 885-4352/1-A
Matrix: Water
Analysis Batch: 4499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4352

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	mg/L		05/03/24 13:51	05/06/24 11:35	1
Motor Oil Range Organics [C28-C40]	ND		5.0	mg/L		05/03/24 13:51	05/06/24 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		46 - 159	05/03/24 13:51	05/06/24 11:35	1

Lab Sample ID: LCS 885-4352/2-A
Matrix: Water
Analysis Batch: 4499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4352

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	2.50	2.69		mg/L		108	57 - 147

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QC Sample Results

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

Job ID: 885-3785-1

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

Lab Sample ID: LCS 885-4352/2-A
 Matrix: Water
 Analysis Batch: 4499

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 4352

Surrogate	%Recovery	LCS Qualifier	LCS Limits
Di-n-octyl phthalate (Surr)	100		46 - 159

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-4379/12
 Matrix: Water
 Analysis Batch: 4379

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/L			05/03/24 08:30	1
Sulfate	ND		0.50	mg/L			05/03/24 08:30	1

Lab Sample ID: LCS 885-4379/13
 Matrix: Water
 Analysis Batch: 4379

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	4.57		mg/L		91	90 - 110
Sulfate	10.0	9.46		mg/L		95	90 - 110

Lab Sample ID: MRL 885-4379/11
 Matrix: Water
 Analysis Batch: 4379

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	0.512		mg/L		102	50 - 150
Sulfate	0.500	0.518		mg/L		104	50 - 150

Lab Sample ID: MB 885-4380/12
 Matrix: Water
 Analysis Batch: 4380

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.20	mg/L			05/03/24 08:30	1

Lab Sample ID: LCS 885-4380/13
 Matrix: Water
 Analysis Batch: 4380

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	2.39		mg/L		96	90 - 110
Nitrite as N	1.00	0.937		mg/L		94	90 - 110

Lab Sample ID: MRL 885-4380/11
 Matrix: Water
 Analysis Batch: 4380

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	0.0929	J	mg/L		93	50 - 150
Nitrite as N	0.0999	0.0976	J	mg/L		98	50 - 150

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QC Sample Results

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

Job ID: 885-3785-1

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

Lab Sample ID: MB 885-4314/1
Matrix: Water
Analysis Batch: 4314

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		50	mg/L			05/03/24 09:03	1

Lab Sample ID: LCS 885-4314/2
Matrix: Water
Analysis Batch: 4314

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



QC Association Summary

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

Job ID: 885-3785-1

GC/MS VOA

Analysis Batch: 4462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3785-1	FY Treated Eff	Total/NA	Groundwater	8260B	
885-3785-2	FY Raw	Total/NA	Groundwater	8260B	
885-3785-3	RW-2-2024-04-28	Total/NA	Groundwater	8260B	
885-3785-4	Trip Blank	Total/NA	Trip Blank	8260B	
MB 885-4462/3	Method Blank	Total/NA	Water	8260B	
LCS 885-4462/2	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 4552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3785-2	FY Raw	Total/NA	Groundwater	8260B	
MB 885-4552/3	Method Blank	Total/NA	Water	8260B	
LCS 885-4552/2	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 4652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3785-3	RW-2-2024-04-28	Total/NA	Groundwater	8260B	
MB 885-4652/3	Method Blank	Total/NA	Water	8260B	
LCS 885-4652/2	Lab Control Sample	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 4543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3785-1	FY Treated Eff	Total/NA	Groundwater	8015D	
885-3785-2	FY Raw	Total/NA	Groundwater	8015D	
MB 885-4543/5	Method Blank	Total/NA	Water	8015D	
LCS 885-4543/4	Lab Control Sample	Total/NA	Water	8015D	

GC Semi VOA

Prep Batch: 4352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3785-1	FY Treated Eff	Total/NA	Groundwater	3511	
885-3785-2	FY Raw	Total/NA	Groundwater	3511	
MB 885-4352/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-4352/2-A	Lab Control Sample	Total/NA	Water	3511	

Prep Batch: 4458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3785-1	FY Treated Eff	Total/NA	Groundwater	8011	
885-3785-2	FY Raw	Total/NA	Groundwater	8011	
885-3785-3	RW-2-2024-04-28	Total/NA	Groundwater	8011	
885-3785-4	Trip Blank	Total/NA	Trip Blank	8011	
MB 885-4458/3-A	Method Blank	Total/NA	Water	8011	
LCS 885-4458/4-A	Lab Control Sample	Total/NA	Water	8011	
MRL 885-4458/1-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 4499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3785-1	FY Treated Eff	Total/NA	Groundwater	8015D	4352
885-3785-2	FY Raw	Total/NA	Groundwater	8015D	4352
MB 885-4352/1-A	Method Blank	Total/NA	Water	8015D	4352

Eurofins Albuquerque

QC Association Summary

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

Job ID: 885-3785-1

GC Semi VOA (Continued)

Analysis Batch: 4499 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-4352/2-A	Lab Control Sample	Total/NA	Water	8015D	4352

Analysis Batch: 4638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3785-4	Trip Blank	Total/NA	Trip Blank	8011	4458
MB 885-4458/3-A	Method Blank	Total/NA	Water	8011	4458
LCS 885-4458/4-A	Lab Control Sample	Total/NA	Water	8011	4458
MRL 885-4458/1-A	Lab Control Sample	Total/NA	Water	8011	4458

Analysis Batch: 4639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3785-1	FY Treated Eff	Total/NA	Groundwater	8011	4458
885-3785-2	FY Raw	Total/NA	Groundwater	8011	4458
885-3785-3	RW-2-2024-04-28	Total/NA	Groundwater	8011	4458

HPLC/IC

Analysis Batch: 4379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3785-1	FY Treated Eff	Total/NA	Groundwater	300.0	
885-3785-1	FY Treated Eff	Total/NA	Groundwater	300.0	
885-3785-2	FY Raw	Total/NA	Groundwater	300.0	
885-3785-2	FY Raw	Total/NA	Groundwater	300.0	
MB 885-4379/12	Method Blank	Total/NA	Water	300.0	
LCS 885-4379/13	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-4379/11	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 4380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3785-1	FY Treated Eff	Total/NA	Groundwater	300.0	
885-3785-2	FY Raw	Total/NA	Groundwater	300.0	
MB 885-4380/12	Method Blank	Total/NA	Water	300.0	
LCS 885-4380/13	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-4380/11	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 4314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3785-1	FY Treated Eff	Total/NA	Groundwater	2540C	
885-3785-2	FY Raw	Total/NA	Groundwater	2540C	
MB 885-4314/1	Method Blank	Total/NA	Water	2540C	
LCS 885-4314/2	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: 885-3785-1

Client Sample ID: FY Treated Eff

Lab Sample ID: 885-3785-1

Date Collected: 04/28/24 16:50

Matrix: Groundwater

Date Received: 05/01/24 14:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	4462	JR	EET ALB	05/06/24 18:29
Total/NA	Analysis	8015D		1	4543	JP	EET ALB	05/07/24 23:36
Total/NA	Prep	8011			4458	MB	EET ALB	05/07/24 06:27
Total/NA	Analysis	8011		5	4639	MB	EET ALB	05/08/24 14:32
Total/NA	Prep	3511			4352	JU	EET ALB	05/03/24 13:51
Total/NA	Analysis	8015D		1	4499	JU	EET ALB	05/06/24 12:22
Total/NA	Analysis	300.0		1	4379	JT	EET ALB	05/03/24 09:03
Total/NA	Analysis	300.0		20	4379	JT	EET ALB	05/03/24 09:15
Total/NA	Analysis	300.0		5	4380	JT	EET ALB	05/03/24 20:22
Total/NA	Analysis	2540C		1	4314	KS	EET ALB	05/03/24 09:03

Client Sample ID: FY Raw

Lab Sample ID: 885-3785-2

Date Collected: 04/28/24 16:45

Matrix: Groundwater

Date Received: 05/01/24 14:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	4462	JR	EET ALB	05/06/24 18:57
Total/NA	Analysis	8260B		50	4552	JR	EET ALB	05/07/24 09:57
Total/NA	Analysis	8015D		1	4543	JP	EET ALB	05/07/24 23:59
Total/NA	Prep	8011			4458	MB	EET ALB	05/07/24 06:53
Total/NA	Analysis	8011		100	4639	MB	EET ALB	05/08/24 14:49
Total/NA	Prep	3511			4352	JU	EET ALB	05/03/24 13:51
Total/NA	Analysis	8015D		1	4499	JU	EET ALB	05/06/24 12:46
Total/NA	Analysis	300.0		1	4379	JT	EET ALB	05/03/24 09:28
Total/NA	Analysis	300.0		20	4379	JT	EET ALB	05/03/24 09:40
Total/NA	Analysis	300.0		5	4380	JT	EET ALB	05/03/24 20:35
Total/NA	Analysis	2540C		1	4314	KS	EET ALB	05/03/24 09:03

Client Sample ID: RW-2-2024-04-28

Lab Sample ID: 885-3785-3

Date Collected: 04/28/24 16:13

Matrix: Groundwater

Date Received: 05/01/24 14:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	4462	JR	EET ALB	05/06/24 19:26
Total/NA	Analysis	8260B		50	4652	JR	EET ALB	05/08/24 11:30
Total/NA	Prep	8011			4458	MB	EET ALB	05/07/24 06:53
Total/NA	Analysis	8011		200	4639	MB	EET ALB	05/08/24 15:06

Client Sample ID: Trip Blank

Lab Sample ID: 885-3785-4

Date Collected: 04/28/24 00:00

Matrix: Trip Blank

Date Received: 05/01/24 14:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	4462	JR	EET ALB	05/06/24 19:54

Eurofins Albuquerque

Lab Chronicle

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

Job ID: 885-3785-1

Client Sample ID: Trip Blank

Lab Sample ID: 885-3785-4

Date Collected: 04/28/24 00:00

Matrix: Trip Blank

Date Received: 05/01/24 14:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8011			4458	MB	EET ALB	05/07/24 06:53
Total/NA	Analysis	8011		1	4638	MB	EET ALB	05/07/24 15:58

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.
 Project/Site: Former Y Station State Lead Site

Job ID: 885-3785-1

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		Groundwater	Total Dissolved Solids
300.0		Groundwater	Chloride
300.0		Groundwater	Nitrate Nitrite as N
300.0		Groundwater	Sulfate
8011	8011	Groundwater	Ethylene Dibromide
8011	8011	Trip Blank	Ethylene Dibromide
8015D		Groundwater	Gasoline Range Organics [C6 - C10]
8015D	3511	Groundwater	Diesel Range Organics [C10-C28]
8015D	3511	Groundwater	Motor Oil Range Organics [C28-C40]
8260B		Groundwater	1,1,1,2-Tetrachloroethane
8260B		Groundwater	1,1,1-Trichloroethane
8260B		Groundwater	1,1,2,2-Tetrachloroethane
8260B		Groundwater	1,1,2-Trichloroethane
8260B		Groundwater	1,1-Dichloroethane
8260B		Groundwater	1,1-Dichloroethene
8260B		Groundwater	1,1-Dichloropropene
8260B		Groundwater	1,2,3-Trichlorobenzene
8260B		Groundwater	1,2,3-Trichloropropane
8260B		Groundwater	1,2,4-Trichlorobenzene
8260B		Groundwater	1,2,4-Trimethylbenzene
8260B		Groundwater	1,2-Dibromo-3-Chloropropane
8260B		Groundwater	1,2-Dibromoethane (EDB)
8260B		Groundwater	1,2-Dichlorobenzene
8260B		Groundwater	1,2-Dichloroethane (EDC)
8260B		Groundwater	1,2-Dichloropropane
8260B		Groundwater	1,3,5-Trimethylbenzene
8260B		Groundwater	1,3-Dichlorobenzene
8260B		Groundwater	1,3-Dichloropropane
8260B		Groundwater	1,4-Dichlorobenzene
8260B		Groundwater	1-Methylnaphthalene
8260B		Groundwater	2,2-Dichloropropane
8260B		Groundwater	2-Butanone
8260B		Groundwater	2-Chlorotoluene
8260B		Groundwater	2-Hexanone
8260B		Groundwater	2-Methylnaphthalene
8260B		Groundwater	4-Chlorotoluene
8260B		Groundwater	4-Isopropyltoluene
8260B		Groundwater	4-Methyl-2-pentanone
8260B		Groundwater	Acetone
8260B		Groundwater	Benzene
8260B		Groundwater	Bromobenzene
8260B		Groundwater	Bromodichloromethane
8260B		Groundwater	Bromoform
8260B		Groundwater	Bromomethane
8260B		Groundwater	Carbon disulfide

Accreditation/Certification Summary

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

Job ID: 885-3785-1

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
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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		Groundwater	Carbon tetrachloride
8260B		Groundwater	Chlorobenzene
8260B		Groundwater	Chloroethane
8260B		Groundwater	Chloroform
8260B		Groundwater	Chloromethane
8260B		Groundwater	cis-1,2-Dichloroethene
8260B		Groundwater	cis-1,3-Dichloropropene
8260B		Groundwater	Dibromochloromethane
8260B		Groundwater	Dibromomethane
8260B		Groundwater	Dichlorodifluoromethane
8260B		Groundwater	Ethylbenzene
8260B		Groundwater	Hexachlorobutadiene
8260B		Groundwater	Isopropylbenzene
8260B		Groundwater	Methylene Chloride
8260B		Groundwater	Methyl-tert-butyl Ether (MTBE)
8260B		Groundwater	Naphthalene
8260B		Groundwater	n-Butylbenzene
8260B		Groundwater	N-Propylbenzene
8260B		Groundwater	sec-Butylbenzene
8260B		Groundwater	Styrene
8260B		Groundwater	tert-Butylbenzene
8260B		Groundwater	Tetrachloroethene (PCE)
8260B		Groundwater	Toluene
8260B		Groundwater	trans-1,2-Dichloroethene
8260B		Groundwater	trans-1,3-Dichloropropene
8260B		Groundwater	Trichloroethene (TCE)
8260B		Groundwater	Trichlorofluoromethane
8260B		Groundwater	Vinyl chloride
8260B		Groundwater	Xylenes, Total
8260B		Trip Blank	1,1,1,2-Tetrachloroethane
8260B		Trip Blank	1,1,1-Trichloroethane
8260B		Trip Blank	1,1,2,2-Tetrachloroethane
8260B		Trip Blank	1,1,2-Trichloroethane
8260B		Trip Blank	1,1-Dichloroethane
8260B		Trip Blank	1,1-Dichloroethene
8260B		Trip Blank	1,1-Dichloropropene
8260B		Trip Blank	1,2,3-Trichlorobenzene
8260B		Trip Blank	1,2,3-Trichloropropane
8260B		Trip Blank	1,2,4-Trichlorobenzene
8260B		Trip Blank	1,2,4-Trimethylbenzene
8260B		Trip Blank	1,2-Dibromo-3-Chloropropane
8260B		Trip Blank	1,2-Dibromoethane (EDB)
8260B		Trip Blank	1,2-Dichlorobenzene
8260B		Trip Blank	1,2-Dichloroethane (EDC)
8260B		Trip Blank	1,2-Dichloropropane
8260B		Trip Blank	1,3,5-Trimethylbenzene
8260B		Trip Blank	1,3-Dichlorobenzene

Accreditation/Certification Summary

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

Job ID: 885-3785-1

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		Trip Blank	1,3-Dichloropropane
8260B		Trip Blank	1,4-Dichlorobenzene
8260B		Trip Blank	1-Methylnaphthalene
8260B		Trip Blank	2,2-Dichloropropane
8260B		Trip Blank	2-Butanone
8260B		Trip Blank	2-Chlorotoluene
8260B		Trip Blank	2-Hexanone
8260B		Trip Blank	2-Methylnaphthalene
8260B		Trip Blank	4-Chlorotoluene
8260B		Trip Blank	4-Isopropyltoluene
8260B		Trip Blank	4-Methyl-2-pentanone
8260B		Trip Blank	Acetone
8260B		Trip Blank	Benzene
8260B		Trip Blank	Bromobenzene
8260B		Trip Blank	Bromodichloromethane
8260B		Trip Blank	Bromoform
8260B		Trip Blank	Bromomethane
8260B		Trip Blank	Carbon disulfide
8260B		Trip Blank	Carbon tetrachloride
8260B		Trip Blank	Chlorobenzene
8260B		Trip Blank	Chloroethane
8260B		Trip Blank	Chloroform
8260B		Trip Blank	Chloromethane
8260B		Trip Blank	cis-1,2-Dichloroethene
8260B		Trip Blank	cis-1,3-Dichloropropene
8260B		Trip Blank	Dibromochloromethane
8260B		Trip Blank	Dibromomethane
8260B		Trip Blank	Dichlorodifluoromethane
8260B		Trip Blank	Ethylbenzene
8260B		Trip Blank	Hexachlorobutadiene
8260B		Trip Blank	Isopropylbenzene
8260B		Trip Blank	Methylene Chloride
8260B		Trip Blank	Methyl-tert-butyl Ether (MTBE)
8260B		Trip Blank	Naphthalene
8260B		Trip Blank	n-Butylbenzene
8260B		Trip Blank	N-Propylbenzene
8260B		Trip Blank	sec-Butylbenzene
8260B		Trip Blank	Styrene
8260B		Trip Blank	tert-Butylbenzene
8260B		Trip Blank	Tetrachloroethene (PCE)
8260B		Trip Blank	Toluene
8260B		Trip Blank	trans-1,2-Dichloroethene
8260B		Trip Blank	trans-1,3-Dichloropropene
8260B		Trip Blank	Trichloroethene (TCE)
8260B		Trip Blank	Trichlorofluoromethane
8260B		Trip Blank	Vinyl chloride
8260B		Trip Blank	Xylenes, Total

Accreditation/Certification Summary

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

Job ID: 885-3785-1

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
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	Groundwater	Ethylene Dibromide
8011	8011	Trip Blank	Ethylene Dibromide



Chain-of-Custody Record

Client: Daniel B. Stephens and 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

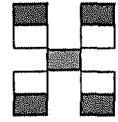
Sampler: B. Constand ; R. Villanueva

On Ice: Yes No

of Coolers: 1 *mostly*

Cooler Temp (including CP): 0.6-0.65°C

Container Type and # Preservative Type HEAL No.



HALL ENVIRONMENTAL ANALYSIS LAB

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 871

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



885-3785 coc

Analysis Request

Page 32 of 33

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPL/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)	Sulfate/Chloride 300.0	Nitrate (as N) 300.0	TDS 5MA2540C
4/28/24	16:50	GW	FY Treated Eff	Varies	Varies			X		X				X			X	X	X
	16:45		FY Raw					X		X				X			X	X	X
	16:13		RW-2-2024-0428							X				X					
			Trip Blank																

Date: 5/1/24 Time: 14:41 Relinquished by: [Signature]

Received by: [Signature] Via: CDU Date: 5/1/24 Time: 14:41

Remarks:

Date: 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

5/16/2024



Login Sample Receipt Checklist

Client: Daniel B. Stephens & Associates Inc.

Job Number: 885-3785-1

Login Number: 3785

List Number: 1

Creator: Lowman, Nick

List Source: Eurofins Albuquerque

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.	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	

Appendix E
Mass Removal
Calculations

Project Name Former Y Station State Lead Site Project Number DB18.1157

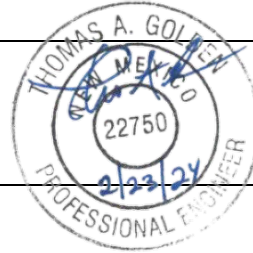
Calculation Number 001 Discipline Environmental No. of Sheets 8

PROJECT:

Former Y Station State Lead Site

SITE:

1905 N Prince St, Clovis, NM 88101



SUBJECT:

Hydrocarbon Mass Removal Calculation

SOURCES OF DATA:

- A. System operations summary data recorded by DBS&A staff
- B. Summary of Analytical Organic Chemistry Data for Soil Vapor, DBS&A. (Results reported by Hall Environmental Analysis Laboratory)
- C. Fundamentals of Fluid Mechanics - Munson et al, 2006
- D. "Conversion Unmasked" - Rong and Yu, 1996

SOURCES OF FORMULAE & REFERENCES:

- 1. Rotameter Flow Measurement, January 29, 2010
- 2. Alnor HVAC Handbook, 2007

Preliminary Calculation Final Calculation Supersedes Calculation No. _____

Rev. No.	Revision	Calculation By	Date	Checked By	Date	Approved By	Date
0	Startup / As-Built Report	ANT	12/06/2023	TG	12/08/2023	TG	12/27/2023
1	1 st GWM Report	TG	2/12/2024	GMH	2/16/2024	TG	2/16/2024

Project No. DB18.1157 Date 12/6/2023
Subject Hydrocarbon Mass Removal Calculation Sheet 1 of 7
By A. Nuñez-Thompson Checked By T. Golden Calculation No. 001

1. Purpose

- Calculate the total mass of hydrocarbons removed by the remediation system, including the soil vapor extraction (SVE) and groundwater extraction components
- Calculate the hydrocarbon destruction efficiency of the SVE system
- Calculate the hydrocarbon emission rates from the SVE system

2. Given

- System operations data recorded by technical staff, including air flow rate in cubic feet per minute [cfm] or standard cfm and totalized water flow in gallons; blower effluent temperature, vacuum, hours of operation; and influent and effluent concentrations as measured with a PID ^A
- Total petroleum hydrocarbons as gasoline and diesel range organics (TPH GRO and DRO) concentrations from laboratory analyses of soil vapor and groundwater samples ^B
- Absolute atmospheric pressure, P_{atm} , in Clovis, NM at an elevation of 4,280 feet above mean sea level (ft msl) is 12.53 pounds per square inch (psi) (linearly interpolated from the reference) ^C
- Conversion factor of 4.16 from gasoline concentrations measured in parts per million by volume (ppmv) to micrograms per liter ($\mu\text{g/L}$) ^D

3. Method

Methods for calculating air flow rates and hydrocarbon mass removal, destruction efficiency, and emission rates are provided below.

Project No. DB18.1157

Date 12/6/2023

Subject Hydrocarbon Mass Removal Calculation

Sheet 2 of 7

By A. Nuñez-Thompson Checked By T. Golden

Calculation No. 001

3.1 Air Flow Rates

The combined influent flow rate for the SVE system is reported in standard cubic feet per minute (scfm). Calculate the actual (Q_{acfm}) system air flow rates based on the standard system flow and the actual pressure and temperature relative to standard conditions (14.7 psi and 530 degrees Rankine) using equations 1 and 2. ¹

$$Q_{acfm} = Q_{scfm} \cdot \frac{P_{std}}{P_{actual}} \cdot \frac{T_{actual}}{T_{std}} \quad (1)$$

3.2 Mass Removal by Laboratory Analysis

The first mass removal calculation is performed using laboratory analyses of concentrations of total petroleum hydrocarbons as gasoline range organics (TPH GRO) in $\mu\text{g/L}^B$ and the air flow rate. Laboratory concentrations (C_{lab} , mass per volume) are first converted to a volume of air under standard conditions, C_{std} (Hall Environmental Analysis Laboratory stated that concentrations are reported under actual laboratory conditions):

$$C_{std} = C_{lab} \cdot \left(\frac{P_{std}}{P_{lab}} \cdot \frac{T_{lab}}{T_{std}} \right) \quad (2)$$

The combined well influent air flow rate (measured in the same point in the process as the laboratory samples) is recorded by the MPE system in standard cfm using an averaging pitot tube.² The standard combined well influent concentration of TPH (GRO), mass per volume, is multiplied by the standard air flow, volume per time, and the equipment run time to obtain the mass of hydrocarbons removed.

Laboratory analysis of groundwater is used with similar methodology to calculate mass removal from the groundwater extraction component of the remediation system. The groundwater concentration, mass per volume, is multiplied by a measured volume of groundwater extracted over the period of operation. Mass of both TPH and gasoline constituents of benzene, toluene, ethylbenzene, and total xylenes (BTEX) are evaluated to estimate approximate mass of gasoline-equivalent hydrocarbons in the groundwater medium, with the maximum of the two values taken.

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3.3 Mass Removal by PID Analysis

A second mass removal calculation is performed using PID field screening readings^A measured in ppmv and the air flow rate. PID readings are first converted from volumetric concentrations (ppmv) to mass-based concentrations ($\mu\text{g/L}$) using a factor of 4.16^D. The combined well influent air flow rate (measured in the same point in the process as the PID samples) is recorded by the SVE system in standard cfm using an averaging pitot tube.⁴ The standard combined well influent PID reading is multiplied by the standard air flow and the equipment run time to obtain the mass of hydrocarbons removed, similar to the method above.

3.4 Destruction Efficiency

System destruction efficiency (DE) is computed based on the system influent and effluent laboratory concentrations (C_{inf} and C_{eff}):

$$DE = (C_{\text{inf}} - C_{\text{eff}}) / (C_{\text{inf}}) \quad (3)$$

3.5 Emission Rates

Estimated hydrocarbon emission rates are calculated based on the oxidizer standard effluent concentration of TPH (GRO) and an assumed oxidizer standard effluent air flow rate. The effluent concentration is converted to a volume of air under standard conditions using equation 2. The effluent air flow rate will include well flow, dilution air, combustion air, and tertiary (cooling) air, where applicable. The SVE system is estimated conservatively to have a discharge air flow rate of 1,000 scfm.

4. Solution

Sample calculations are provided below for a period between November 1 and November 9 (laboratory samples collected on November 1 and November 9), with calculations summarized in attached spreadsheets. Removal by the groundwater treatment system is calculated based on a laboratory sample collected on November 9, 2023.

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Subject Hydrocarbon Mass Removal Calculation

Sheet 4 of 7

By A. Nuñez-Thompson Checked By T. Golden

Calculation No. 001

4.1 Air Flow Rates

The standard combined well influent flow rate, Q_{scfm} , during the period of 138 hours is 750 scfm, combined well vacuum, P_{vac} , is 50 inches of water column (" H₂O). Calculate the actual system flow rate, Q_{acfm} , using equation 1.

Calculate the actual pressure, P_{actual} , at the system flow meter based on atmospheric pressure (P_{atm}) and the applied well vacuum (P_{vac}):

$$P_{vac} = 49'' \text{ H}_2\text{O}$$

$$P_{actual} = P_{atm} - P_{vac} = 12.5 \text{ psi} - \frac{50'' \text{ H}_2\text{O}}{1} * \frac{1' \text{ H}_2\text{O}}{12'' \text{ H}_2\text{O}} * \frac{1 \text{ psi}}{2.31' \text{ H}_2\text{O}} = 10.70 \text{ psi}$$

$$Q_{acfm} = Q_{scfm} * \frac{P_{std}}{P_{actual}} * \frac{T_{actual}}{T_{std}} = 750 \text{ scfm} * \frac{14.7 \text{ psi}}{10.70 \text{ psi}} * \frac{530 \text{ R}}{530 \text{ R}} = 1,028 \text{ acfm}$$

4.2 Mass Removal by Laboratory Analysis

The standard combined well influent flow rate, Q_{scfm} , during the period of 138 hours is 750 scfm, and TPH (GRO) laboratory concentration, C_{lab} , is 13,800 micrograms per liter ($\mu\text{g/L}$)^B. Calculate the TPH (GRO) concentration under standard conditions, C_{std} , using equation 3 and assuming the absolute pressure and temperature at the laboratory (5000 ft msl) are 12.23 psi and 70° F, respectively:

$$C_{std} = C_{lab} * \left(\frac{P_{std}}{P_{lab}} * \frac{T_{lab}}{T_{std}} \right) = 13,800 \mu\text{g/L} * \left(\frac{14.7}{12.23} * \frac{530}{530} \right) = 16,587 \mu\text{g/L}$$

$$\text{Mass} = Q_{scfm} * C_{std} * \text{time} = 750 \text{ scfm} * 16,587 \mu\text{g/L} * 138 \text{ hr} * (28.317 \text{ L/ft}^3) * (60 \text{ min/hr}) *$$

$$(1 \text{ pound} / 454 \text{ grams}) * (1 \text{ gram} / 10^6 \mu\text{g}) = \text{Mass} = \mathbf{6,430 \text{ lb gasoline}}$$

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 Subject Hydrocarbon Mass Removal Calculation Sheet 5 of 7
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Calculate the daily mass removal and total mass removed by the groundwater treatment system based on concentrations of TPH (GRO), TPH (DRO), and BTEX of 6.1, 2.4, and 2.9 mg/L, respectively, for the samples collected on November 9, 2023. The sum total of TPH is 8.5 mg/L, which is greater than the BTEX concentrations. The effluent totalizing flow meter read 133,800 gallons on November 9 and 42,000 gallons on November 3, so approximately 91,800 gallons were processed during this time period. Calculate the mass removed using the concentration and volumetric flow for the period:

$$\text{Mass removed} = V_{\text{period}} * C_{\text{lab}} =$$

$$91,800 \text{ gal} * (8.5 \text{ mg/L}) * 2.20 \times 10^{-6} \text{ lb/mg} * 3.8 \text{ L/gal} = \text{Mass} = \mathbf{6.5 \text{ lb gasoline}}$$

Total mass removed from both air and water phases of contamination:

$$\text{Mass} = 6,430 + 6.5 = 6,437 \text{ lb} / 6 \text{ lb/gal} = \text{Mass} = \mathbf{1,073 \text{ gallons gasoline-equivalent}}$$

Conversions from mass to gallons are provided only as a frame of reference. Some constituents in gasoline may not readily volatilize or may be oxidized by natural processes. Complete results are provided on attached spreadsheets.

4.3 Mass Removal by PID Analysis

The standard combined well influent flow rate, Q_{scfm} , during the period of 138 hours is 750 scfm, and the PID reported a volumetric concentration of 847 ppmv^A. Convert the volumetric concentration to a mass-based concentration at standard conditions:

$$C_{\text{std}} = 847 \text{ ppmv} * (4.16 \text{ } \mu\text{g/L per ppmv}) = 3,524 \text{ } \mu\text{g/L}$$

$$\text{Mass} = Q_{\text{scfm}} * C_{\text{std}} * \text{time} = 750 \text{ scfm} * 3,524 \text{ } \mu\text{g/L} * 138 \text{ hr} * (28.317 \text{ L/ft}^3) * (60 \text{ min/hr}) *$$

$$(1 \text{ pound} / 454 \text{ grams}) * (1 \text{ gram} / 10^6 \text{ } \mu\text{g}) = \text{Mass} = \mathbf{1,366 \text{ lb gasoline}}$$

Mass removal estimates obtained using PID data were lower than laboratory results. However, concentration estimates measured in the field using a portable PID are considered to be for screening purposes only and won't necessarily correlate with mass concentrations measured with laboratory data.

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Sheet 6 of 7

By A. Nuñez-Thompson Checked By T. Golden

Calculation No. 001

4.4 Destruction Efficiency

Calculate destruction efficiency using equation 3, assuming TPH (GRO) influent and effluent laboratory concentrations of 13,800 and 2,700 $\mu\text{g/L}^B$, respectively, from the November 9 sampling event:

$$DE = (C_{inf} - C_{eff}) / (C_{inf}) = (13,800 \mu\text{g/L} - 2,700 \mu\text{g/L}) / 13,800 \mu\text{g/L} = \mathbf{DE = 80.4\%}$$

Calculate destruction efficiency using equation 3, assuming TPH (GRO) influent and effluent laboratory concentrations of 9,800 and 220 $\mu\text{g/L}^B$, respectively, from the November 28 sampling event:

$$DE = (C_{inf} - C_{eff}) / (C_{inf}) = (9,800 \mu\text{g/L} - 220 \mu\text{g/L}) / 9,800 \mu\text{g/L} = \mathbf{DE = 97.8\%}$$

Destruction efficiency has improved as the system has continued to operate. Based on how the remediation system operated during the startup period, it is likely that process air was initially oxygen deficient. In this state, hydrocarbons were not oxidized as completely, despite normal operation of the thermal oxidizer. Normal operation of the oxidizer has created subsurface circulation and is increasing subsurface oxygen content over time. This has translated to improved oxidizer efficiency, as observed in the laboratory data.

4.5 Emission Rates

Calculate the oxidizer effluent TPH (GRO) concentration under standard conditions, C_{std} , using equation 2 and assuming the absolute pressure and temperature at the laboratory (5000 ft msl) are 12.23 psi and 70° F, respectively:

$$C_{std} = C_{lab} * \left(\frac{P_{std}}{P_{lab}} * \frac{T_{lab}}{T_{std}} \right) = 2,700 \mu\text{g/L} * \left(\frac{14.7}{12.23} * \frac{530}{530} \right) = 3,245 \mu\text{g/L}$$

Calculate emissions rates in pounds per hour (lb/hr) and tons per year (ton/yr) assuming a system discharge air flow rate, Q_{out} , of 1000 scfm (including combustion blower air):

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$$\text{Emissions} = Q_{\text{out}} * C_{\text{std}} = 1,000 \text{ scfm} * 3,245 \text{ } \mu\text{g/L} * (28.317 \text{ L/ft}^3) * (60 \text{ min/hr}) *$$

$$(1 \text{ pound} / 454 \text{ grams}) * (1 \text{ gram} / 10^6 \text{ } \mu\text{g}) = \text{Emissions} = \mathbf{12.16 \text{ lb/hr}}$$

$$\text{Emissions} = 12.16 \text{ lb/hr} * (8760 \text{ hr/yr}) * (1 \text{ ton}/2000 \text{ lb}) = \text{Emissions} = \mathbf{53.24 \text{ ton/yr}}$$

Time weighted average emission rates involve summing the product of the emission rate and run time for each individual period and dividing by the total run time.

Total period average emission rates involve summing the product of the emission rate and run time for each individual period and dividing by the current calendar time since startup.

As discussed above, oxidizer emission rates have improved as the oxidizer has continued to operate. Since November 16, 2023, TPH emission rates have been below 2 lb/hr and 9 ton/yr. Emissions of regulated constituents of gasoline, such as benzene, have been less than 0.2 lb/hr and 0.9 ton/yr. Emission rates will continue to improve as oxidizer efficiency increases and contaminant concentrations decrease with optimized mass removal.

Former Y Station, Clovis New Mexico
 Mass removal calculation (PID results)
 System start date November 1, 2023

The sample point is the combined influent sample port. Air flow is measured by the SVE system.

Date	Time	Total Oxidizer Hours (hr)	Run Time during period (hr)	Run Time during period (min)	Combined Well Vacuum (in Hg)	Combined Well Vacuum (in H ₂ O)	Standard Combined Well Flow (scfm)	Actual Combined Well Flow (acfm)	PID Concentration (ppmv)	PID Concentration (µg/L)*	Total Well Flow (scf)	Mass Removed During Period (lb)	Cumulative Mass Removed (lb)	Mass Removal Rate (lb/hr)	Cumulative Mass Removal Rate (lb/hr)
11/1/2023	10:00	5													
System started															
11/1/2023	13:56	9	4	240	3.1	42	761	1,016	15,000	62,400	182,640	711	711	177.9	177.9
11/3/2023	15:08	58	49	2,940	3.5	47	762	1,034	1,446	6,015	2,240,280	841	1,553	17.2	29.3
11/9/2023	8:30	196	138	8,280	3.7	50	750	1,028	847	3,524	6,210,000	1,366	2,919	9.9	15.3
11/16/2023	14:10	368	172	10,320	3.5	48	766	1,043	1,368	5,691	7,905,120	2,808	5,727	16.3	15.8
11/21/2023	15:08	485	117	7,020	3.9	53	762	1,055	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	1,059	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	1,082	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	1,084	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	1,096	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	1,081	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	1,059	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	1,068	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															

Notes

µg/L = micrograms per liter
 lb= pounds
 cfm = cubic feet per minute
 acfm = actual cfm
 scfm = standard cfm
 scf = standard cubic feet
 STP = standard temperature and pressure

hr = hours
 min = minutes
 in H₂O = inches water column
 psi = pounds per square inch
 °F = degrees Fahrenheit
 °R = degrees Rankine
 ft msl = feet above mean sea level

Conversions

* micrograms per liter = milligrams per cubic meter.
 454 gram / lb
 1.00E+06 ug / gram
 60 min / hr
 28.317 liter / cubic foot
 1000 liter / cubic meter
 35.315 cubic feet / cubic meter
 4.16 ug/L per ppmv for gasoline at STP

Flow Conversions

12.5 absolute air pressure at 4280 ft msl
 14.7 absolute air pressure at 0 ft msl
 13.6 Inches water per inches Hg
 12 inches per foot water
 2.31 feet of water (head) per psi
 70 °F, standard temperature
 70 °F, assumed lab temperature
 460 °R

Former Y Station, Clovis New Mexico
 Mass removal calculation (laboratory results)
 System start date November 1, 2023

The sample point is the combined influent sample port. Air flow is measured by the SVE system.

Date	Time	Total Oxidizer Hours (hr)	Run Time (hr)	Run Time (min)	Combined Well Vacuum (in Hg)	Combined Well Vacuum (in H ₂ O)	Standard Combined Well Flow (scfm)	Actual Combined Well Flow (acfm)	Lab Results TPH GRO (µg/L)*	Lab Results TPH GRO at STP (µg/L)*	Total Well Flow (scf)	Mass Removed During Period (lb)	Cumulative Mass Removed (lb)	Mass Removal Rate (lb/hr)	Cumulative Mass Removal Rate (lbs/hr)
11/1/2023	10:00	5													
System Started															
11/1/2023	13:56	9	4	240	3	42	761	1016	36,000	43,271	182,640	493	493	123.3	123.3
11/3/2023	15:08	58	49	2,940	3	47	762	1034	34,000	40,867	2,240,280	5,715	6,209	116.6	117.1
11/9/2023	8:30	196	138	8,280	4	50	750	1028	13,800	16,587	6,210,000	6,430	12,639	46.6	66.2
11/16/2023	14:10	368	172	10,320	4	48	766	1043	16,000	19,231	7,905,120	9,491	22,130	55.2	61.0
11/21/2023	15:08	485	117	7,020	4	53	762	1055	12,000	14,424	5,349,240	4,817	26,947	41.2	56.1
11/27/2023	16:01	633	148	8,880	4	53	765	1059	9,800	11,779	6,793,200	4,995	31,942	33.8	50.9
12/12/2023	8:00	963	330	19,800	4	55	775	1082	7,800	9,375	15,345,000	8,981	40,923	27.2	42.7
1/3/2024	7:30	1,463	500	30,000	4	56	775	1084	7,700	9,255	23,250,000	13,433	54,356	26.9	37.3
1/16/2024	12:30	1,756	293	17,580	4	57	781	1096	7,700	9,255	13,729,980	7,933	62,289	27.1	35.6
1/31/2024	8:27	2,109	353	21,162	4	59	764	1081	6,500	7,813	16,167,768	7,886	70,175	22.4	33.4
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															
3/26/2024															
4/17/2024															
4/28/2024															
SVE System Off due to Thermal Oxidizer Fault															

Notes

µg/L = micrograms per liter
 lb= pounds
 cfm = cubic feet per minute
 acfm = actual cfm
 scfm = standard cfm
 scf = standard cubic feet
 STP = standard temperature and pressure
 half the detection limit is used

hr = hours
 min = minutes
 in H₂O = inches water column
 psi = pounds per square inch
 °F = degrees Fahrenheit
 °R = degrees Rankine
 ft msl = feet above mean sea level

Conversions

* micrograms per liter = milligrams per cubic meter.
 454 gram / lb
 1.00E+06 ug / gram
 60 min / hr
 28.317 liter / cubic foot
 1000 liter / cubic meter
 35.315 cubic feet / cubic meter
 12 inches per foot water

Flow Conversions

12.5 absolute air pressure at 4280 ft msl, psi
 12.2 absolute air pressure at 5000 ft msl, psi
 14.7 absolute air pressure at 0 ft msl, psi
 13.6 Inches water per inches Hg
 2.31 feet of water (head) per psi
 70 °F, standard temperature
 70 °F, assumed lab temperature
 460 °R

Former Y Station, Clovis New Mexico
 Mass removal calculation (GW lab results)
 System start date November 1, 2023
 Raw water samples are collected prior to the oil-water separator

Date	Time	Effluent Totalizer (gal)	Effluent per period (gal)	Lab Results TPH GRO (mg/L)	Lab Results TPH DRO (mg/L)	Lab Results BTEX (mg/L)	Mass Removed During Period (lb)	Cumulative Mass Removed (lb)	Mass Removal Rate (lbs/day)	Cumulative Mass Removal Rate (lbs/day)	Cumulative Mass Removed (gal)	
11/1/2023		0	System Started									
11/1/2023	13:56	3,300	3,300	3.8	NA	1.1	0.11	0	0.6	0.6	0.02	
11/3/2023	15:08	42,000	38,700	6.9	NA	2.4	2.24	2	1.1	1.2	0.39	
11/9/2023	8:30	133,800	91,800	6.1	2.4	2.9	6.50	9	1.1	1.1	1.47	
11/16/2023	14:10	221,900	88,100	7.8	2.8	3.1	7.82	17	1.1	1.1	2.78	
11/21/2023	15:08	300,900	79,000	7.0	1.1	2.7	5.36	22	1.1	1.1	3.67	
11/27/2023	16:01	385,800	84,900	8.2	<1.0	3.6	5.83	28	1.0	1.1	4.64	
12/12/2023	8:00	566,000	180,200	11	2.5	4.6	20.4	48	1.4	1.2	8.04	
1/3/2024	7:30	780,000	214,000	5.3	2.3	1.8	13.63	62	0.6	1.0	10.31	
1/16/2024	12:30	892,000	112,000	5.6	1.3	1.9	6.47	68	0.5	0.9	11.39	
1/31/2024	8:27	1,024,824	132,824	4.1	<1.0	0.07	4.56	73	0.3	0.8	12.15	
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	

Notes

mg/L = milligrams per liter
 lb= pounds
 NA= Not analyzed

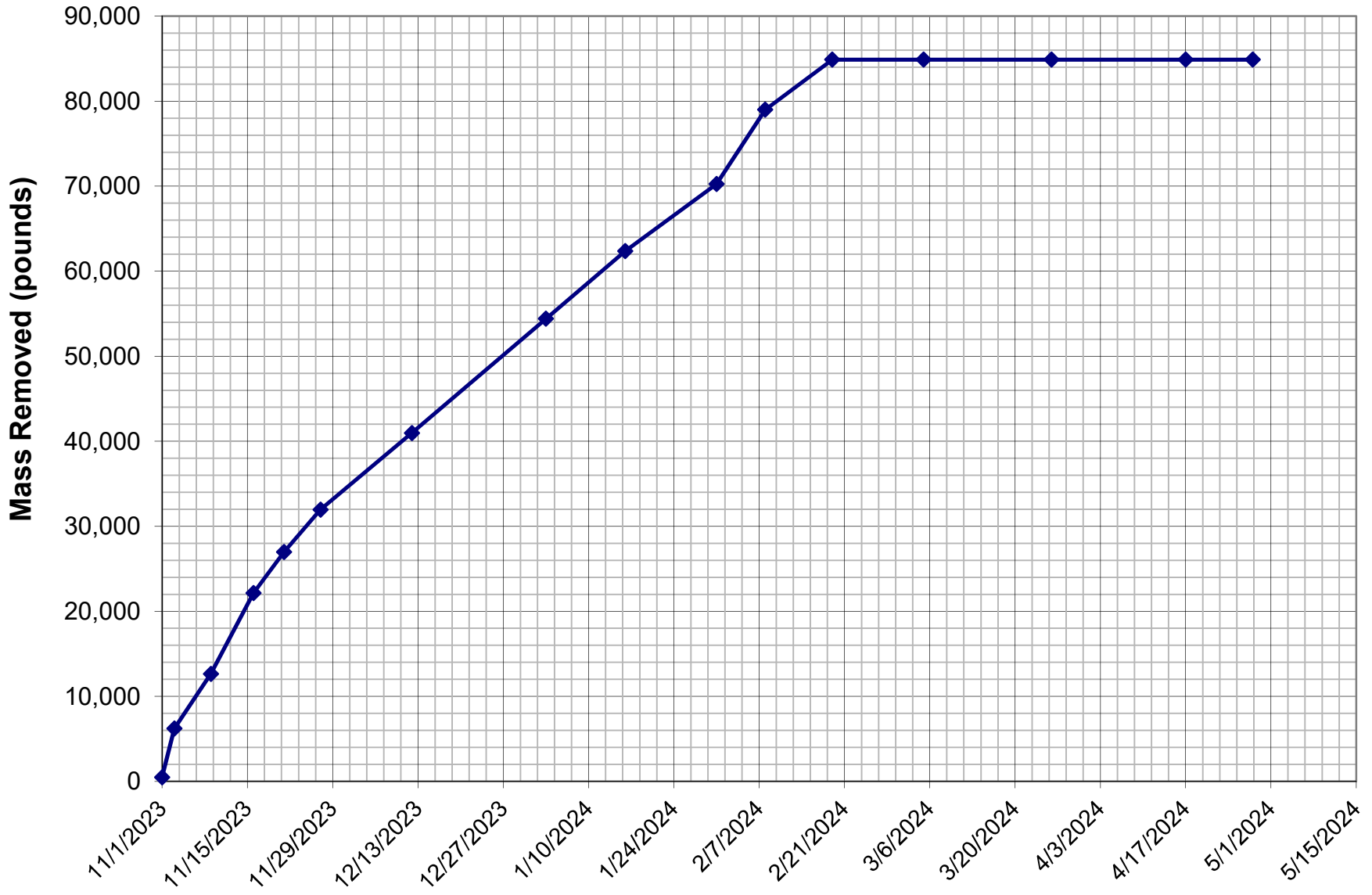
Conversions

2.20E-06 lb / mg
 3.8 L / gallon
 6 lb/ gallon (gasoline)

Date	Cumulative Mass Removed (Lab air TPH) (lb)	Cumulative Mass Removed (Lab water TPH+BTEX) (lb)	TOTAL MASS REMOVED (lb)	TOTAL MASS REMOVED (gal)
11/1/2023	493	0	493	82
11/3/2023	6,209	2	6,211	1,035
11/9/2023	12,639	9	12,648	2,108
11/16/2023	22,130	17	22,147	3,691
11/21/2023	26,947	22	26,969	4,495
11/27/2023	31,942	28	31,970	5,328
12/12/2023	40,923	48	40,971	6,829
1/3/2024	54,356	62	54,418	9,070
1/16/2024	62,289	68	62,358	10,393
1/31/2024	70,175	73	70,248	11,708
2/8/2024	78,917	76	78,993	13,165
2/19/2024	84,810	78	84,888	14,148
3/5/2024	84,810	78	84,888	14,148
3/26/2024	84,810	79	84,889	14,148
4/17/2024	84,810	81	84,891	14,149
4/28/2024	84,810	83	84,893	14,149

Conversions
6 lb/ gallon (gasoline)

Mass Removal in Vapor and Groundwater Phases



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											
Run time weighted average:		0.083	0.363	0.141	0.619	0.031	0.137	0.060	0.261	1.49	6.54
Total period average ^a :			0.147		0.195		0.028		0.163		2.25

TPH = Total petroleum hydrocarbons
 GRO = Gasoline range organics
Italic = Laboratory result below reporting limit - emissions value calculated using half of the laboratory reporting limit

hr = hour
 lb/hr = Pounds per hour
 ton/yr = Tons per year

^a Total period = 1/3/2024 to 04/28/24 (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***

BRUCE R. MUNSON

DONALD F. YOUNG

Department of Aerospace Engineering and Engineering Mechanics

THEODORE H. OKIISHI

Department of Mechanical Engineering

Iowa State University

Ames, Iowa, USA



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

linear interpolation
7,000 → 11.38 psi

^aData abridged from *U.S. Standard Atmosphere*, 1976, U.S. Government Printing Office, Washington, D.C.

Conversion unmasked

What is the relationship between $\mu\text{g/L}$ and ppmv ?

By Yue Rong, Ph.D. and Samuel C.T. Yu, D. Env

Soil vapor samples are often analyzed to monitor variation of contaminant concentration and evaluate the effect of vapor extraction. Soil vapor sample results can be reported in either micrograms per liter ($\mu\text{g/L}$) or parts per million by volume (ppmv). What is the relationship between these two units of vapor concentration?

Basic laws:

A. Definition: One mole of a substance is its formula weight in grams, i.e., $\text{MW} \cdot n = g$ (equation one)

B. Ideal Gas Law: $p \cdot V = n \cdot R \cdot T$ (equation two)

Yue Rong, Ph.D., is environmental specialist with the California Regional Water Quality Control Board, Los Angeles Region, and Samuel Yu, D. Env., is project engineer in the Safety and Environmental Protection Office of the Hong Kong University of Science and Technology, Hong Kong.

Where: MW is molecular weight (gram per mold), n is numbers of mole, g is gram, P is total gas pressure (atmosphere unit, or atm), V is volume in liters, R is the gas constant (Liter \cdot atm/ $^{\circ}\text{K} \cdot$ mole), and T is gas temperature ($^{\circ}\text{K}$) ($^{\circ}\text{K} = ^{\circ}\text{C} + 273.15$).

By definition, $\text{ppmv} = \mu\text{V}/\text{V} = \mu\text{L}/\text{L}$.

We are looking for relationship between mass (g) and volume (L). Substitute equation two into one for n:

$g = \text{MW} \cdot (P \cdot V / R \cdot T)$ (equation three)

Given $R = 0.08205 \text{ L} \cdot \text{atm}/^{\circ}\text{K} \cdot \text{mole}$, $T = 293.15^{\circ}\text{K}$ (@ 20°C), $P = 1 \text{ atm}$, equation three becomes:

$g = \text{MW} \cdot V \cdot [P/(R \cdot T)] = \text{MW} \cdot V \cdot [1 / (0.08205 \times 293.15)]$

$= \text{MW} \cdot V / 24.05$ (equation four)

Check units in equation four:

$g = (\text{g}/\text{mole}) \cdot \text{L} \cdot [\text{atm} / ((\text{L} \cdot \text{atm}/^{\circ}\text{K} \cdot \text{mole}) \cdot \text{K}^{\circ})]$

VOC	MW	Conversion Factor (MW/24.05)
GASOLINE	100	4.16
Benzene	78	3.2
Carbon tetrachloride	154	6.4
Chloroform	120	5.0
Dichlorobenzene	147	6.1
Dichlorodifluoromethane (Freon 12)	120	5.0
Dichloroethane (DCA) (all isomers)	99	4.1
Dichloroethylene (DCE) (all isomers)	97	4.0
Methylene chloride	85	3.5
Tetrachloroethylene (PCE)	166	6.9
Trichloroethane (TCA) (all isomers)	134	5.6
Trichloroethylene (TCE)	132	5.5
Trichlorofluoromethane (Freon 11)	137	5.7
Trichlorotrifluoroethane (Freon 113)	186	7.7
Vinyl chloride	63	2.6

Figure 1

Notice V is in liters (L), equation four can be expressed as:

$$g = (\text{MW}/24.05) \cdot L$$

$$\mu\text{g} = (\text{MW}/24.05) \cdot \mu\text{L}$$

$$\mu\text{g}/\text{L} = (\text{MW}/24.05) \cdot \mu\text{L}/\text{L}$$

i.e., $\mu\text{g}/\text{L} = (\text{MW}/24.05) \cdot \text{ppmv}$ (equation five)

Let X = concentration in ppmv and Y = concentration in $\mu\text{g}/\text{L}$, and equation five becomes:

$$Y (\mu\text{g}/\text{L}) = (\text{MW}/24.05) \cdot X (\text{ppmv}) \text{ (equation six)}$$

ppb

Equation six converts soil vapor concentration from ppmv to $\mu\text{g}/\text{L}$, or vice versa. In order to use this equation, it is necessary to know molecular weight of a particular compound. Figure one, above, shows the conversion factor of (MW/24.05) in equation six for some common VOCs. For example, if vapor concentration is measured in 100 ppmv for PCE, then PCE concentration is also equal to $6.9 \times 100 = 690 \mu\text{g}/\text{L}$.



MEMORANDUM

TO: Gundar Peterson, PE

FROM: Tom Golden, Kelly Isaacson

DATE: January 29, 2010

SUBJECT: Rotameter flow measurement

In response to Katherine MacNeil's email, we researched the apparent discrepancy between standard cubic feet per minute (SCFM) measurements given by a rotameter and the SCFM calculated by AcuVac in their soil vapor extraction (SVE) pilot test reports. The results of our research are summarized below

Definition of variables

ACFM: actual cubic feet per minute (cfm) at a given temperature, pressure (elevation), and operating conditions

CFM_{meter}: cubic feet per minute (cfm) measured by a rotameter. In the documentation provided, this is also called observed cfm and indicated scfm.

SCFM: equivalent flow in cubic feet per minute (cfm) at STP

STP: standard temperature and pressure, 70°F and 14.7 psi.

ρ : density of a fluid, given in mass per unit volume

Problem statement

In the AMEC calculation provided regarding cfm measured with a rotameter, the author reports that the correct reporting unit from a rotameter calibrated for STP is SCFM. The AcuVac documentation refers to the flow rate measured with a rotameter as ACFM and converts this value to SCFM in the field. Does the value measured on the rotameter by AcuVac need to be converted to SCFM?

Solution

The need for the definition of three different types of CFM arises from the difference in calibration versus operation temperature and pressure conditions.

An analysis of the free body diagram of the float in a rotameter is given by Wellin¹, which shows that Q is dependent on the area of flow and density of air:

$$Q = K \cdot \frac{A}{\sqrt{\rho}} \quad (1)$$

When a rotameter is calibrated at STP, $\sqrt{\rho}$ is absorbed into the value of K , because ρ (air) is defined. When the density of the air is changed (i.e. elevation of the rotameter is changed), the



calibrated rotameter no longer yields flow rate in SCFM, but instead what we will call CFM_{meter}.

The Dwyer technical documentation² for the VFC series rotameter used by AcuVac acknowledges this fact in the third paragraph under “Operation”, which states,

“the flowmeter is calibrated to operate at a specific set of conditions, and deviation from those standard conditions will require correction for the calibration to be valid. In practice, the reading taken from the flowmeter scale must be corrected back to standard conditions to be used with the scale units. The correct location to measure the actual pressure and temperature is at the exit of the flowmeter, except under vacuum applications where they should be measured at the flowmeter inlet.”

The conversion given to convert CFM_{meter} to SCFM^{1,2} is a non linear relationship:

$$Q(SCFM) = CFM_{meter} \sqrt{\frac{P_{actual}}{P_{calibration}} \cdot \frac{T_{calibration}}{T_{actual}}} \quad (2)$$

It can be noted that the calibration temperature and pressure are generally STP; however, calibration information should be provided by the flowmeter manufacturer

The relationship between SCFM and ACFM is linear:

$$ACFM = SCFM \frac{P_{standard}}{P_{actual}} \cdot \frac{T_{actual}}{T_{standard}} \quad (3)$$

For completeness, the relationship between ACFM and CFM_{meter} is given by

$$ACFM = CFM_{meter} \sqrt{\frac{P_{standard}}{P_{actual}} \cdot \frac{T_{actual}}{T_{standard}}} \quad (4)$$

Supporting documentation

Two Dwyer specification sheets for rotameters² (including the VFC Series Visi-Float used by AcuVac) are attached, which include the calculation of SCFM from the meter reading. This calculation is also discussed in Wellin¹

The correct conversion from SCFM to ACFM is included in the documentation with the AMEC calculation (page 3 of 4 from King Correction Formulae & Sizing)³, as well as in Wellin¹.

Implications

The primary problem here is one of terminology, although there are implications if formulas in either the AcuVac or AMEC documents were used to back-calculate ACFM/SCFM values. Although it may not be intuitive, ACFM is not the value read straight from the meter, rather the



calculated actual volumetric flow rate through the meter.

Page 2 of the AMEC calculation gives an equation to calculate ACFM. This non-linear equation is the correct way to calculate ACFM from CFM_{meter} . It is not the correct way to calculate SCFM from ACFM or vice versa.

For most SVE applications in New Mexico (i.e. 3000-7000 feet elevation, air temperature of 50-70°F), the value of CFM_{meter} falls between the ACFM and SCFM, such that $ACFM > CFM_{\text{meter}} > SCFM$.

In the design equation given in the AMEC calculation

$$Q = kA(gh)^{0.5} \quad (5)$$

the fluid density, $\rho(\text{air})$, is included in the calibration coefficient, k , a fact which is not acknowledged by the AMEC calculation. While the equation is valid for the calibration conditions, the flow rate read from the meter must be corrected as indicated above in equation 2 to reflect the correct SCFM.

Conclusions

In the problem statement of the AMEC calculation regarding CFM used in SVE systems, the correct answer to the question “What is the correct reporting unit directly read off the scale; SCFM, ACFM, or other?” is “other”, and in this discussion is termed CFM_{meter} .

Additionally, AcuVac is correct in converting the CFM value read on the flowmeter to SCFM to adjust for changes in temperature and pressure, with the non-linear relationship given above, although what they call ACFM in their sample calculation is actually CFM_{meter} .

In summary, both the SCFM value in the AMEC calculation⁴ and the ACFM value in the AcuVac report⁵ refer to the value measured at the flowmeter, CFM_{meter} , therefore, both equations provided are true, but do not represent the actual relationship between true SCFM and ACFM.

Alnor® HVAC Handbook
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Appendix G—Density Correction

Velocity is generally expressed in one of two ways. actual (true) velocity or standard velocity. Actual velocity is the average speed at which the molecules are traveling. Standard velocity is referenced to standard conditions (using a reference of 70°F [21.1°C] and 29.92 in. Hg [101.4 kPa]) and is equal to the actual velocity of the air only when the air is at standard density. The Alnor calibration facilities adjust the actual velocity so that the same number of molecules per unit time are passing over the probe, as if the density were standard density. This makes the instruments display standard velocity.

As a practical matter, many users do not concern themselves with standard versus actual air velocity corrections unless the density of air in their application is more than 10 percent different from standard air density.

Density Correction for Thermo-Anemometers

Thermo-anemometer sensors measure mass air flow velocity which is a measurement of the air mass moving past the sensor and is displayed as standard velocity. Air mass is what gives air its heat holding capacity. Since thermal anemometers measure air mass and display it as standard velocity, many people doing measurements on indoor air are more concerned with standard air velocity.

Standard readings can be converted to actual air velocity to compensate for temperature and barometric pressures. Actual or standard measurements will give the same readings at standard conditions (using a reference of 70°F [21.1°C] and 29.92 in. Hg [101.4 kPa]), but not if pressure or temperature stray from standard conditions.

To calculate actual air velocity, multiply the standard velocity reading indicated by the thermo-anemometer by the following density correction factor:

$$\text{Actual Velocity} = (\text{Standard Velocity}) [(460 + T) / (460 + 70)] \times 29.92 / P_m$$

or

$$\text{Actual Velocity} = (\text{Standard Velocity}) [(273 + T_m) / (273 + 21.1)] \times 101.4 / P$$

Where:

- T = Ambient temperature in degrees Fahrenheit
- P_m = Ambient pressure in inches of Hg.
- T_m = Ambient temperature in degrees Centigrade
- P = Ambient pressure in kPa

Density Correction for Pressure Based Manometers or Deflecting Vane Anemometers

Manometers and deflecting vane anemometers read a nominal velocity that is neither standard nor actual, but a combination of both. This is the velocity read by any Pitot tube and pressure device that does not perform a density correction.

When Bernoulli's equation is applied to the Pitot-static probe, the resultant equation has the form $\text{fpm} = 4005 \sqrt{\Delta P (\text{in. H}_2\text{O})}$ ($\text{m/s} = 1.29 \sqrt{\Delta P (\text{Pa})}$) when the density of the air is 0.075 lb/ft³ (0.366 kgs/m³). The velocity values displayed by the pressure instrument are the actual velocities *only* if the density where the Pitot probe measurements are being taken is 0.075 lb/ft³ (0.366 kgs/m³). Otherwise, a correction step must be performed to obtain a correct value.

Nominal velocity is a velocity reading that is between actual and standard velocity. It is a good estimation of the actual or standard velocity. Nominal measurements are made using a pitot tube.

Actual velocity is the velocity at which a molecule would be traveling in the air stream.

Standard velocity is the velocity as if the measurement was taken with a thermal anemometer at standard temperature and barometric pressure.

Appendix F

Sampling Protocol

Appendix F. Sampling Protocol

Fluid Level and Parameter Measurements

Prior to collection of groundwater samples, a Solinst interface probe or equivalent device will be used to determine depths to water and nonaqueous-phase liquid (NAPL), if present. Water level data will be used to construct a site potentiometric surface map. A YSI 556 Multi-Probe System (MPS) water quality meter or equivalent device will be used to measure specific conductivity, pH, temperature, dissolved oxygen (DO), and oxidation/reduction potential (ORP). Field parameters are measured one time during sample collection via HydraSleeve or via sample port at the wellhead.

Groundwater Monitor Well Sampling

Samples from remediation wells equipped with pumps are sampled using the sample tap at the wellhead while the remediation pump is running. All other wells are sampled using dedicated, disposable HydraSleeves with dedicated tethers and weights. HydraSleeves are installed in wells and are removed after 24 hours. To minimize volatilization and ensure sample integrity, the sample bag is pierced with a straw to transfer groundwater samples from the bailers to the appropriate sample containers.

Samples analyzed for volatile organic analytes (VOAs) will be collected in 40-milliliter (mL) glass vials containing hydrochloric acid preservative and capped with Teflon septa caps. Samples analyzed for 1,2-dibromoethane (EDB) are collected in two 40-milliliter (mL) glass vials containing sodium thiosulfate preservative and capped with Teflon septa caps. VOA containers will be filled in a manner that prevents headspace in the vials.

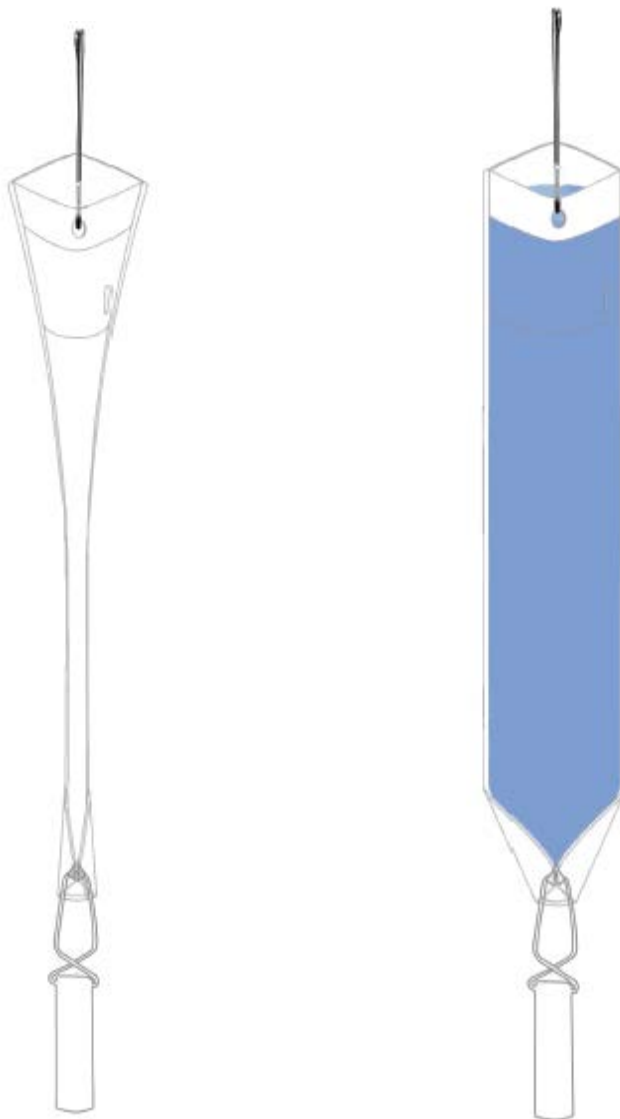
Immediately after collection, the sample containers will be placed on ice in an insulated cooler for delivery to the laboratory for analyses. Groundwater samples will be accompanied by full chain of custody documentation at all times.

HYDRASleeve™

Simple by Design

US Patent No. 6,481,300; No. 6,837,120; No. 9,726,013; others pending

Standard Operating Procedure: Sampling Groundwater with a HydraSleeve



This guide should be used in addition to field manuals and instructions appropriate to the chosen sampling device (i.e., HydraSleeve, SpeedBag or Super/Skinny Sleeve and W3 HybridSleeve).

Find the appropriate field manual and instructions on the HydraSleeve website at <http://www.hydrasleeve.com>.

For more information about the HydraSleeve, or if you have questions, contact:
GeoInsight, P.O. Box 1266, Mesilla Park, NM 88047
800-996-2225, info@hydrasleeve.com.

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Introduction

The HydraSleeve is classified as a no-purge (passive) grab sampling device, meaning that it is used to collect groundwater samples directly from the screened interval of a well without having to purge the well prior to sample collection. When it is used as described in this Standard Operating Procedure (SOP), the HydraSleeve causes no drawdown in the well (until the sample is withdrawn from the water column) and only minimal disturbance of the water column, because it has a very thin cross section and it displaces very little water (<100 ml) during deployment in the well. The HydraSleeve collects a sample from within the screen only. It excludes water from any other part of the water column in the well through the use of a self-sealing check valve at the top of the sampler. It is a single-use (disposable) sampler that is not intended for reuse, so there are no decontamination requirements for the sampler itself.

The use of no-purge sampling as a means of collecting representative groundwater samples depends on the natural movement of groundwater (under ambient hydraulic head) from the formation adjacent to the well screen through the screen. Robin and Gillham (1987) demonstrated the existence of a dynamic equilibrium between the water in a formation and the water in a well screen installed in that formation, which results in formation-quality water being available in the well screen for sampling at all times. No-purge sampling devices like the HydraSleeve collect this formation-quality water as the sample, under undisturbed (non-pumping) natural flow conditions. Samples collected in this manner generally provide more conservative (i.e., higher concentration) values than samples collected using well-volume purging, and values equivalent to samples collected using low-flow purging and sampling (Parsons, 2005).

Applications of the HydraSleeve

The HydraSleeve can be used to collect representative samples of groundwater for all analytes (volatile organic compounds [VOCs], semi-volatile organic compounds [SVOCs], common metals, trace metals, major cations and anions, dissolved gases, total dissolved solids, radionuclides, pesticides, PCBs, explosive compounds, and all other analytical parameters). Designs are available to collect samples from wells from 1" inside diameter and larger. The HydraSleeve can collect samples from wells of any yield, but it is especially well-suited to collecting samples from low-yield wells, where other sampling methods can't be used reliably because their use results in dewatering of the well screen and alteration of sample chemistry (McAlary and Barker, 1987).

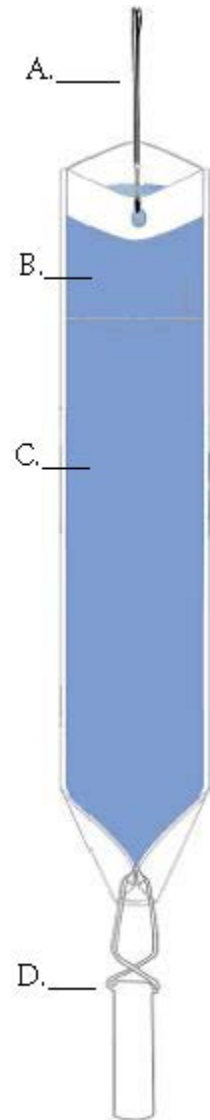
The HydraSleeve can collect samples from wells of any depth, and it can be used for single-event sampling or long-term groundwater monitoring programs. Because of its thin cross section and flexible construction, it can be used in narrow, constricted or damaged wells where rigid sampling devices may not fit. Using multiple HydraSleeves deployed in series along a single suspension line or tether, it is also possible to conduct in-well vertical profiling in wells in which contaminant concentrations are thought to be stratified.

As with all groundwater sampling devices, HydraSleeves should not be used to collect groundwater samples from wells in which separate (non-aqueous) phase hydrocarbons (i.e., gasoline, diesel fuel or jet fuel) are present because of the possibility of incorporating some of the separate-phase hydrocarbon into the sample.

Description of the HydraSleeve

The basic HydraSleeve (Figure 1) consists of the following components*:

- A suspension line or tether (A.), attached to the spring clip or directly to the top of the sleeve to deploy the device into and recover the device from the well. Tethers with depth indicators marked in 1-foot intervals are available from the manufacturer.
- A long, flexible, 4-mil thick lay-flat polyethylene sample sleeve (C.) sealed at the bottom (this is the sample chamber), which comes in different sizes, as discussed below with a self-sealing reed-type flexible polyethylene check valve built into the top of the sleeve (B.) to prevent water from entering or exiting the sampler except during sample acquisition.
- A reusable stainless-steel weight with clip (D.), which is attached to the bottom of the sleeve to carry it down the well to its intended depth in the water column. Bottom weights available from the manufacturer are 0.75" OD and are available in a variety of sizes. An optional top weight may be attached to the top of the HydraSleeve to carry it to depth and to compress it at the bottom of the well (not shown in Figure 1);
- A discharge tube that is used to puncture the HydraSleeve after it is recovered from the well so the sample can be decanted into sample bottles (not shown).
- Just above the self-sealing check valve at the top of the sleeve are two holes which provide attachment points for the spring clip and/or suspension line or tether. At the bottom of the sample sleeve are two holes which provide attachment points for the weight clip and weight.



*Other configurations such as top weighted assemblies, Super/SkinnySleeves, Speedbags, and W3 Hybrids are available.

Note: The sample sleeve and the discharge tube are designed for one-time use and are disposable. The spring clip, weight and weight clip may be reused after thorough cleaning. Suspension cord is generally disposed after one use although, if it is dedicated to the well, it may be reused at the discretion of the sampling personnel.

Selecting the HydraSleeve Size to Meet Site-Specific Sampling Objectives

It is important to understand that each HydraSleeve is able to collect a finite volume of sample because, after the HydraSleeve is deployed, you only get one chance to collect an undisturbed sample. Thus, the volume of sample required to meet your site-specific sampling and analytical requirements will dictate the size of HydraSleeve you need to meet these requirements.

Table 1. Dimensions and Volumes of HydraSleeve Models.

Diameter	Volume	Length	Lay-Flat Width	Filled Dia.
<i>2-Inch HydraSleeves</i>				
Standard 600 mls HydraSleeve	~600mls	30"	2.5"	1.4"
Standard 1-liter HydraSleeve	~1 Liter	38"	3"	1.9"
Super/SkinnySleeve 1-liter	~1 Liter	38"	2.5"	1.5"*
Super/SkinnySleeve 1.5-liter	~1.5 Liters	52"	2.5"	1.5"*
Super/SkinnySleeve 2-liter	~2 Liters	66"	2.5"	1.5"*
<i>4-Inch HydraSleeves</i>				
Standard 2.5 liter	~2 Liters	38"	4"	2.7"

* outside diameter on the Heavy Duty Universal Super/SkinnySleeves is 1.5" however when using with schedule 40 hardware the O.D. of the assembly will be 1.9"

It's also recommended that you size the diameter of the HydraSleeve according to the diameter of the well (i.e. use 2-inch HydraSleeves in 2-inch wells). Using smaller sleeves in larger diameter wells (i.e. 2-inch HydraSleeves in 4-inch wells) will result in a longer fill rate and will require special retrieval instructions (explained later).

The volume of sample collected by the HydraSleeve varies with the diameter and length of the HydraSleeve. Dimensions and volumes of available HydraSleeve models are detailed in Table 1.

HydraSleeves can be custom-fabricated by GeoInsight in varying diameters and lengths to meet specific volume requirements. HydraSleeves can also be deployed in series (i.e., multiple HydraSleeves attached to one tether) to collect additional sample to meet specific volume requirements, as described below.

If you have questions regarding the availability of sufficient volume of sample to satisfy laboratory requirements for analysis, it is recommended that you contact the laboratory to discuss the minimum volumes needed for each suite of analytes. Laboratories often require only 10% to 25% of the volume they specify to complete analysis for specific suites of analytes, so they can often work with much smaller sample volumes that can easily be supplied using a HydraSleeve.

HydraSleeve Deployment

Information Required Before Deploying a HydraSleeve

Before installing a HydraSleeve in any well, you will need to know the following:

- The inside diameter of the well
- The length of the well screen
- The water level in the well
- The position of the well screen in the well
- The total depth of the well

The inside diameter of the well is used to determine the appropriate HydraSleeve diameter for use in the well. The other information is used to determine the proper placement of the HydraSleeve in the well to collect a representative sample from the screen (see HydraSleeve Placement, below), and to determine the appropriate length of tether to attach to the HydraSleeve to deploy it at the appropriate position in the well.

Most of this information (with the exception of the water level) should be available from the well log; if not, it will have to be collected by some other means. The inside diameter of the well can be measured at the top of the well casing, and the total depth of the well can be measured by sounding the bottom of the well with a weighted tape. The position and length of the well screen may have to be determined using a down-hole camera if a well log is not available. The water level in the well can be measured using any commonly available water-level gauge.

HydraSleeve Placement

The HydraSleeve is designed to collect a sample directly from the well screen. It fills by pulling it up through the screen a distance equivalent to the length of the sampler when correctly sized to the well diameter. This upward motion causes the top check valve to open, which allows the device to fill. To optimize sample recovery, it is recommended that the HydraSleeve be placed in the well so that the bottom weight rests on the bottom of the well and the top of the HydraSleeve is as close to the bottom of the well screen as possible. This should allow the sampler to fill before the top of the device reaches the top of the screen as it is pulled up through the water column, and ensure that only water from the screen is collected as the sample. In short-screen wells, or wells with a short water column, it may be necessary to use a top-weight on the HydraSleeve to compress it in the bottom of the well so that, when it is recovered, it has room to fill before it reaches the top of the screen.

Example

2" ID PVC well, 50' total depth, 10' screen at the bottom of the well, with water level above the screen (the entire screen contains water).

Correct Placement (figure 2): Using a standard HydraSleeve for a 2" well (2.5" flat width/1.5" filled OD x 30" long, 600 ml volume), deploy the sampler so the weight (a 5 oz., 2.5" long weight with a 2" long clip) rests at the bottom of the well. The top of the sleeve is thus set at ~34" above the bottom of the well. When the sampler is recovered, it will be pulled upward approximately 30" before it is filled; therefore, it is full (and the top check valve closes) at approximately 64" (5.3 feet) above the bottom of the well, which is well before the sampler reaches the top of the screen. In this example, only water from the screen is collected as a sample.

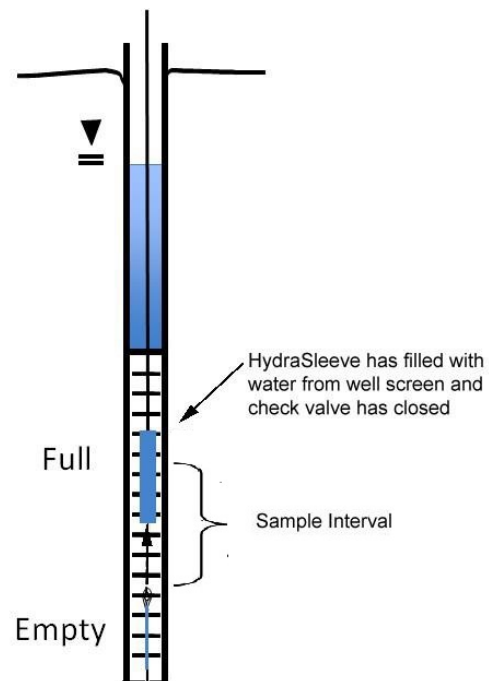


Figure 2. Correct Placement of HydraSleeve.

Incorrect Placement (figure 3): If the well screen in this example was only 5' long, and the HydraSleeve was placed as above, it would not fill before the top of the device reached the top of the well screen, so the sample would include water from above the screen, which may not have the same chemistry.

The solution? Deploy the HydraSleeve with a top weight, so that it is collapsed to within 6" of the bottom of the well. When the HydraSleeve is recovered, it will fill within 36" (3 feet) from the bottom of the well, or 2-feet before the sampler reaches the top of the screen, so it collects only water from the screen as the sample.

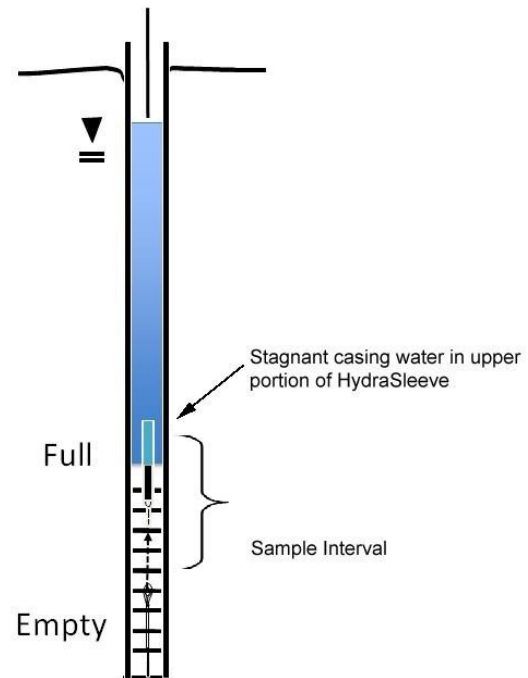


Figure 3. Incorrect placement of HydraSleeve.

This example illustrates one of many types of HydraSleeve placements. More complex placements are discussed in a later section.

NOTE: Using smaller diameter HydraSleeves (2-inch) in larger diameter wells (4-inch) causes a slower fill rate. Special retrieval methods are necessary if this is your set up (shown later in this document).

Procedures for Sampling with the HydraSleeve

Collecting a groundwater sample with a HydraSleeve is usually a simple one-person operation.

Note: Before deploying the HydraSleeve in the well, collect the depth-to-water measurement that you will use to determine the preferred position of the HydraSleeve in the well. This measurement may also be used with measurements from other wells to create a groundwater contour map. If necessary, also measure the depth to the bottom of the well to verify actual well depth to confirm your decision on placement of the HydraSleeve in the water column.

Measure the correct amount of tether needed to suspend the HydraSleeve in the well so that the weight will rest on the bottom of the well (or at your preferred position in the well). Make sure to account for the need to leave a few feet of tether at the top of the well to allow recovery of the sleeve.

Note: Always wear sterile gloves when handling and discharging the HydraSleeve.

I. Assembling the Basic HydraSleeve*

1. Remove the HydraSleeve from its packaging, unfold it, and hold it by its top.
2. Crimp the top of the HydraSleeve by folding the hard polyethylene reinforcing strips at the holes.
3. Attach the spring clip to the holes to ensure that the top will remain open until the sampler is retrieved.
4. Attach the tether to the spring clip by tying a knot in the tether.

Note: Alternatively, if spring clips are not being utilized, attach the tether to one (NOT both) of the holes at the top of the Hydrasleeve by tying a knot in the tether.

5. Fold the flaps with the two holes at the bottom of the HydraSleeve together to align the holes and slide the weight clip through the holes.
6. Attach a weight to the bottom of the weight clip to ensure that the HydraSleeve will descend to the bottom of the well.

*See Super/SkinnySleeve assembly manual and HydraSleeve Field Manual for other assembly instructions.

II. Deploying the HydraSleeve

1. Using the tether, carefully lower the HydraSleeve to the bottom of the well, or to your preferred depth in the water column

During installation, hydrostatic pressure in the water column will keep the self-sealing check valve at the top of the HydraSleeve closed, and ensure that it retains its flat, empty profile for an indefinite period prior to recovery.

Note: Make sure that it is not pulled upward at any time during its descent. If the HydraSleeve is pulled upward at a rate greater than 0.5'/second at any time prior to recovery, the top check valve will open and water will enter the HydraSleeve prematurely.

2. Secure the tether at the top of the well by placing the well cap on the top of the well casing and over the tether.

Note: Alternatively, you can tie the tether to a hook on the bottom of the well cap (you will need to leave a few inches of slack in the line to avoid pulling the sampler up as the cap is removed at the next sampling event).

III. Equilibrating the Well

The equilibration time is the time it takes for conditions in the water column (primarily flow dynamics and contaminant distribution) to restabilize after vertical mixing occurs (caused by installation of a sampling device in the well).

- **Situation:** The HydraSleeve is deployed for the first time or for only one time in a well

The basic HydraSleeve is very thin in cross section and displaces very little water (<100 ml) during deployment so, unlike most other sampling devices, it does not disturb the water column to the point at which long equilibration times are necessary to ensure recovery of a representative sample.

In some cases, like when using the SpeedBags, the HydraSleeve can be recovered immediately (with no equilibration time) or within a few hours. In regulatory jurisdictions that impose specific requirements for equilibration times prior to recovery of no-purge sampling devices, these requirements should be followed.

NOTE: If using top weights additional equilibration time is needed to allow the top weight time to compress the HydraSleeve into the bottom of the well.

- **Situation:** The HydraSleeve is being deployed for recovery during a future sampling event.

In periodic (i.e., quarterly, semi-annual, or annual) sampling programs, the sampler for the current sampling event can be recovered and a new sampler (for the next sampling event) deployed immediately thereafter, so the new sampler remains in the well until the next sampling event.

Thus, a long equilibration time is ensured and, at the next sampling event, the sampler can be recovered immediately. This means that separate mobilizations, to deploy and then to recover the sampler, are not required. HydraSleeves can be left in a well for an indefinite period of time without concern.

IV. HydraSleeve Recovery and Sample Collection

1. Hold on to the tether while removing the well cap.
2. Secure the tether at the top of the well while maintaining tension on the tether (but without pulling the tether upwards)
3. Measure the water level in the well.
4. Use one of the following 3 retrieval methods. In all 3 scenarios, when the HydraSleeve is full, the top check valve will close. You should begin to feel the weight of the HydraSleeve on the tether and it will begin to displace water. The closed check valve prevents loss of sample and entry of water from zones above the well screen as the HydraSleeve is recovered.
 - a. In one smooth motion, pull the tether up 30"-60" (the length of the sampler) at a rate of about 1 foot per second (or faster). The motion will open the top check valve and allow the HydraSleeve to fill (it should fill in about 1:1 ratio or the length of the HydraSleeve if the sleeve is sized to fit the well). This is analogous to coring the water column in the well from the bottom up.
 - b. There are times it is recommended that the HydraSleeve be oscillated in the screen zone to ensure it is full before leaving the screen area. Pull up 1-3 feet, let the sleeve assembly drop back down and repeat 3-5 times before pulling the sleeve to the surface. The collection zone will be the oscillation zone. ***When in doubt use this retrieval method.***
 - c. SpeedBags require check valve activation and oscillation during recovery: When retrieving the SpeedBag, pull up hard 1-2 feet to open the check valve; let the assembly drop back down to the starting point; REPEAT THIS PROCESS 4 TIMES; and then quickly recover the SpeedBag through the well screen to the surface.
5. Continue pulling the tether upward until the HydraSleeve is at the top of the well.
6. Discard the small volume of water trapped in the Hydrasleeve above the check valve by pinching it off at the top under the stiffeners (above the check valve).

v. Sample Discharge

NOTE: Sample collection should be done immediately after the HydraSleeve has been brought to the surface to preserve sample integrity.

Be sure you have discarded the water sitting above the check valve – see step #6 above.

1. Remove the discharge tube from its sleeve.
2. Hold the HydraSleeve at the check valve
3. Puncture the HydraSleeve at least 3-4 inches below the reinforcement strips with the pointed end of the discharge tube. NOTE: For some contaminants (VOC's/sinkers) the best location for discharge is the middle to bottom of the sampler. This would be representative of the deeper portion of the well screen.
4. Discharge water from the HydraSleeve into your sample containers. Control the discharge from the HydraSleeve by either raising the bottom of the sleeve, by squeezing it like a tube of toothpaste, or both.
5. Continue filling sample containers until all are full.

Measurement of Field Indicator Parameters

Field indicator parameter measurement is generally done during well purging and sampling to confirm when parameters are stable and sampling can begin. Because no-purge sampling does not require purging, field indicator parameter measurement is not necessary for the purpose of confirming when purging is complete.

If field indicator parameter measurement is required to meet a specific non-purging regulatory requirement, it can be done by taking measurements from water within a HydraSleeve that is not used for collecting a sample to submit for laboratory analysis (i.e., a second HydraSleeve installed in conjunction with the primary sample collection HydraSleeve [see Multiple Sampler Deployment below]).

Alternate Deployment Strategies

Deployment in Wells with Limited Water Columns

For wells in which only a limited water column needs to be sampled, the HydraSleeve can be deployed with an optional top weight in addition to a bottom weight. The top weight will collapse the HydraSleeve to a very short (approximately 6" to 24") length, depending on the length and volume of the sampler. This allows the HydraSleeve to fill in a water column only 3' to 10' in height (again) depending on the sampler size. Note the SuperSleeves accomplish the same thing but provide greater sample volume at a lower per sample cost.

Multiple Sampler Deployment

Multiple sampler deployment in a single well screen can accomplish two purposes:

1. It can collect additional sample volume to satisfy site or laboratory-specific sample volume requirements.
2. It can be used to collect samples from multiple intervals in the screen to allow identification of possible contaminant stratification.

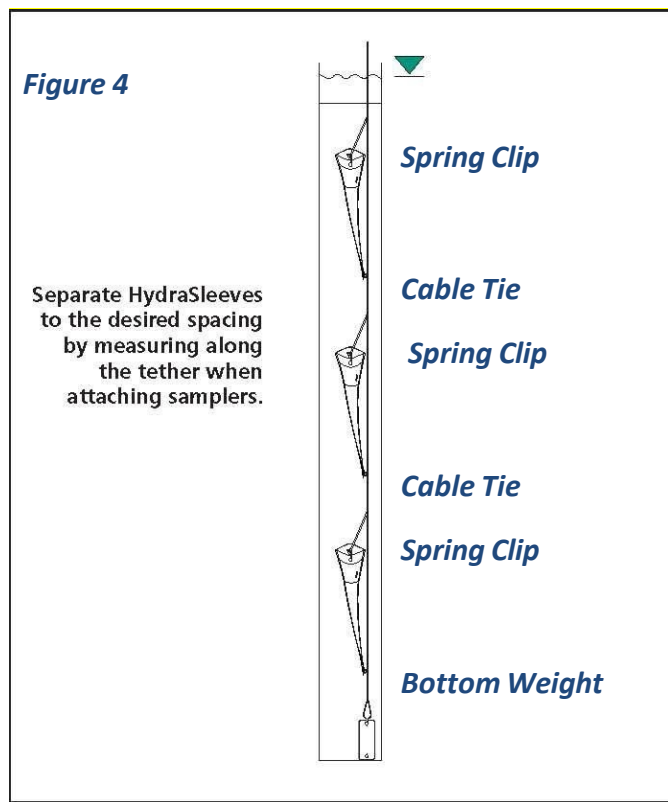


Figure 5. Multiple HydraSleeve deployment

If there is a need for only 2 samplers, they can be installed as follows. The first sampler can be attached to the tether as described above, a second attached to the bottom of the first using your desired length of tether between the two and the weight attached to the bottom of the second sampler (figure 6). This method can only be used with 2 samplers; 3 or more HydraSleeves in tandem need to be attached as described above.

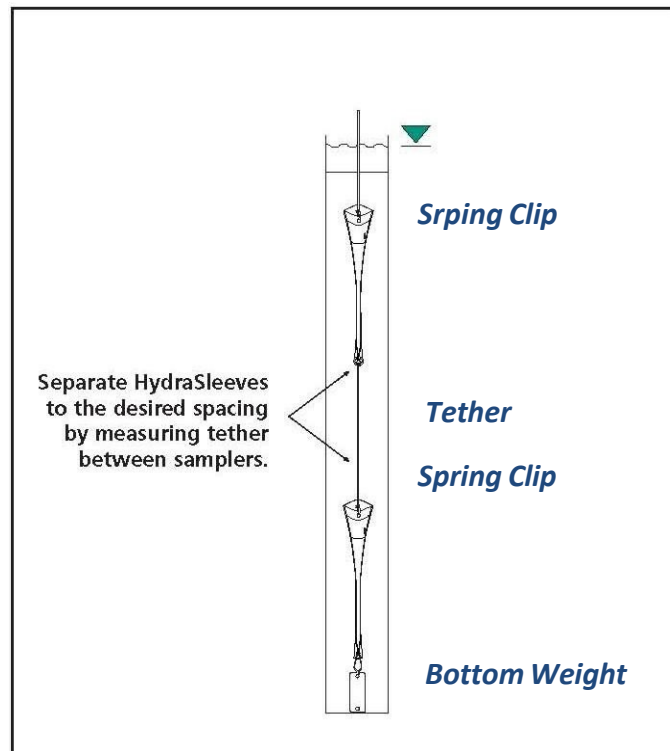


Figure 5. Alternative method for deploying multiple HydraSleeves.

In either case, when attaching multiple HydraSleeves in series, more weight will be required to hold the samplers in place in the well than would be required with a single sampler. Recovery of multiple samplers and collection of samples is done in the same manner as for single sampler deployments.

Post-Sampling Activities

The recovered HydraSleeve and the sample discharge tubing should be disposed as per the solid waste management plan for the site. To prepare for the next sampling event, a new HydraSleeve can be deployed in the well (as described previously) and left in the well until the next sampling event, at which time it can be recovered.

The weight and weight clip can be reused on this sampler after they have been thoroughly cleaned as per the site equipment decontamination plan. The tether may be dedicated to the well and reused or discarded at the discretion of sampling personnel.

References

McAlary, T. A. and J. F. Barker, 1987, Volatilization Losses of Organics During groundwater Sampling From Low-Permeability Materials, groundwater Monitoring Review, Vol. 7, No. 4, pp. 63-68

Parsons, 2005, Results Report for the Demonstration of No-Purge groundwater Sampling Devices at Former McClellan Air Force Base, California; Contract F44650-99-D-0005, Delivery Order DKO1, U.S. Army Corps of Engineers (Omaha District), U.S. Air Force Center for Environmental Excellence, and U.S. Air Force Real Property Agency

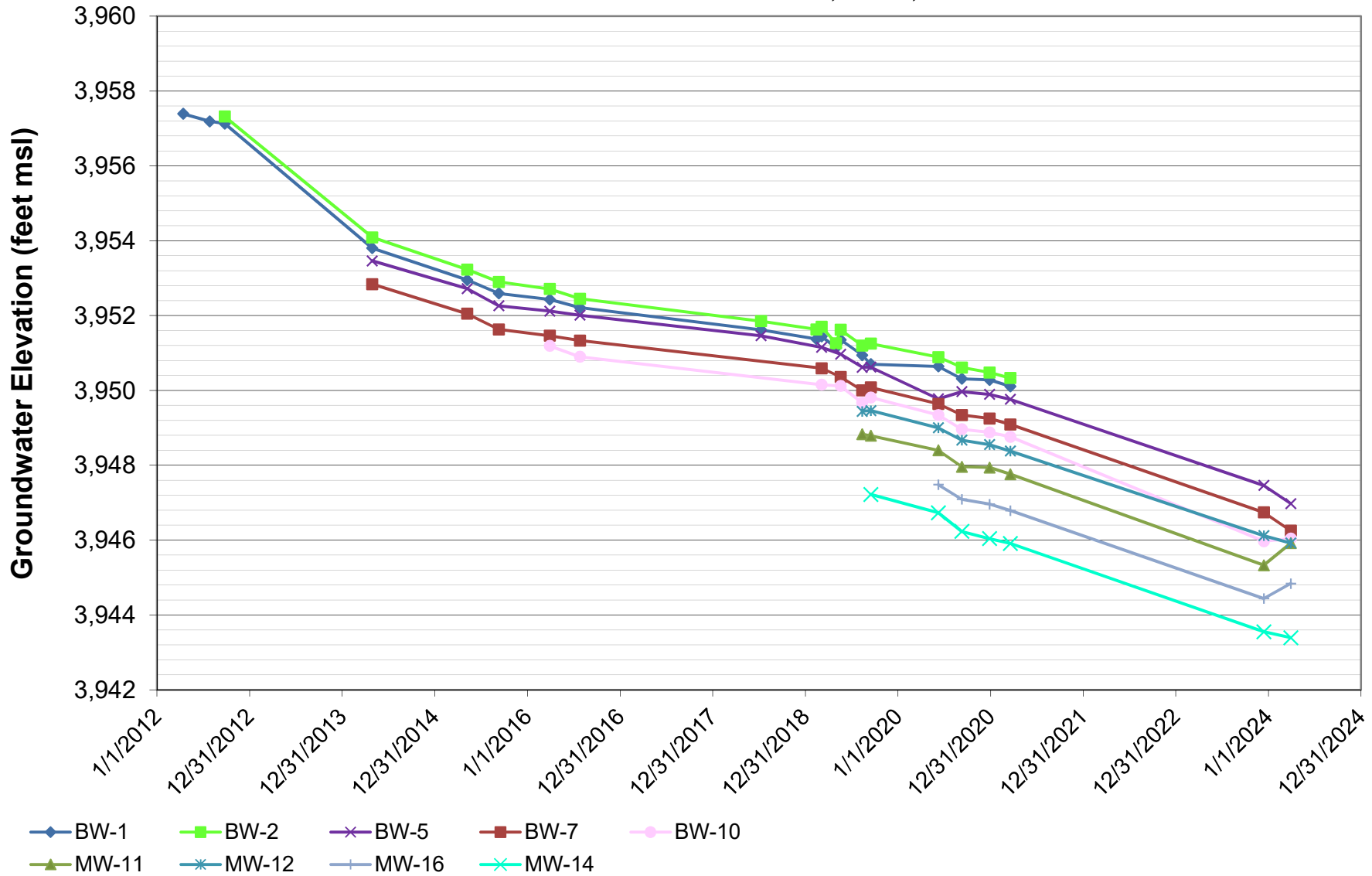
Robin, M. J. L. and R. W. Gillham, 1987, Field Evaluation of Well Purging Procedures, groundwater Monitoring Review, Vol. 7, No. 4, pp. 85-93

Appendix G

Graphs

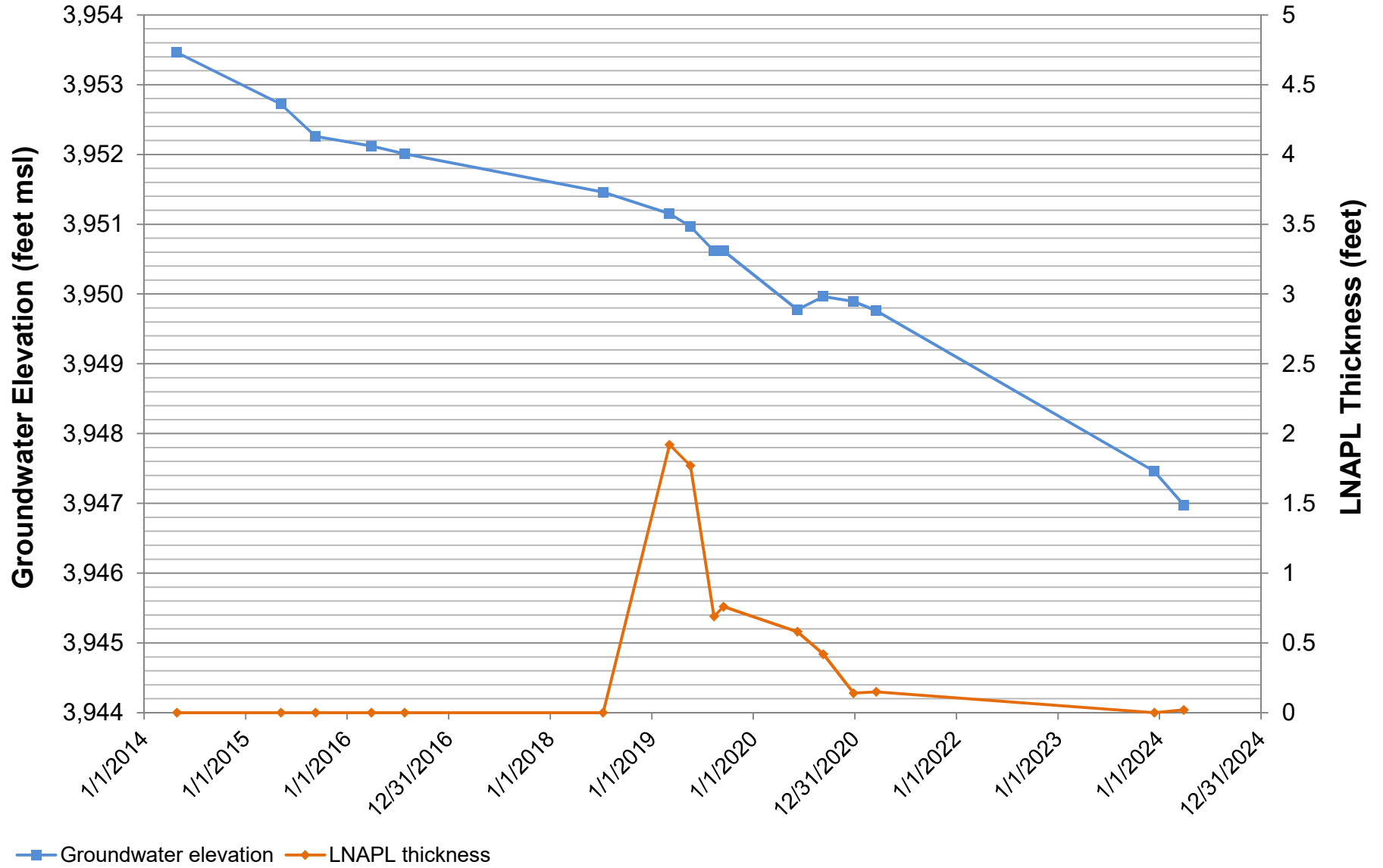
Groundwater Elevations

Former Y Station State Lead Site, Clovis, New Mexico



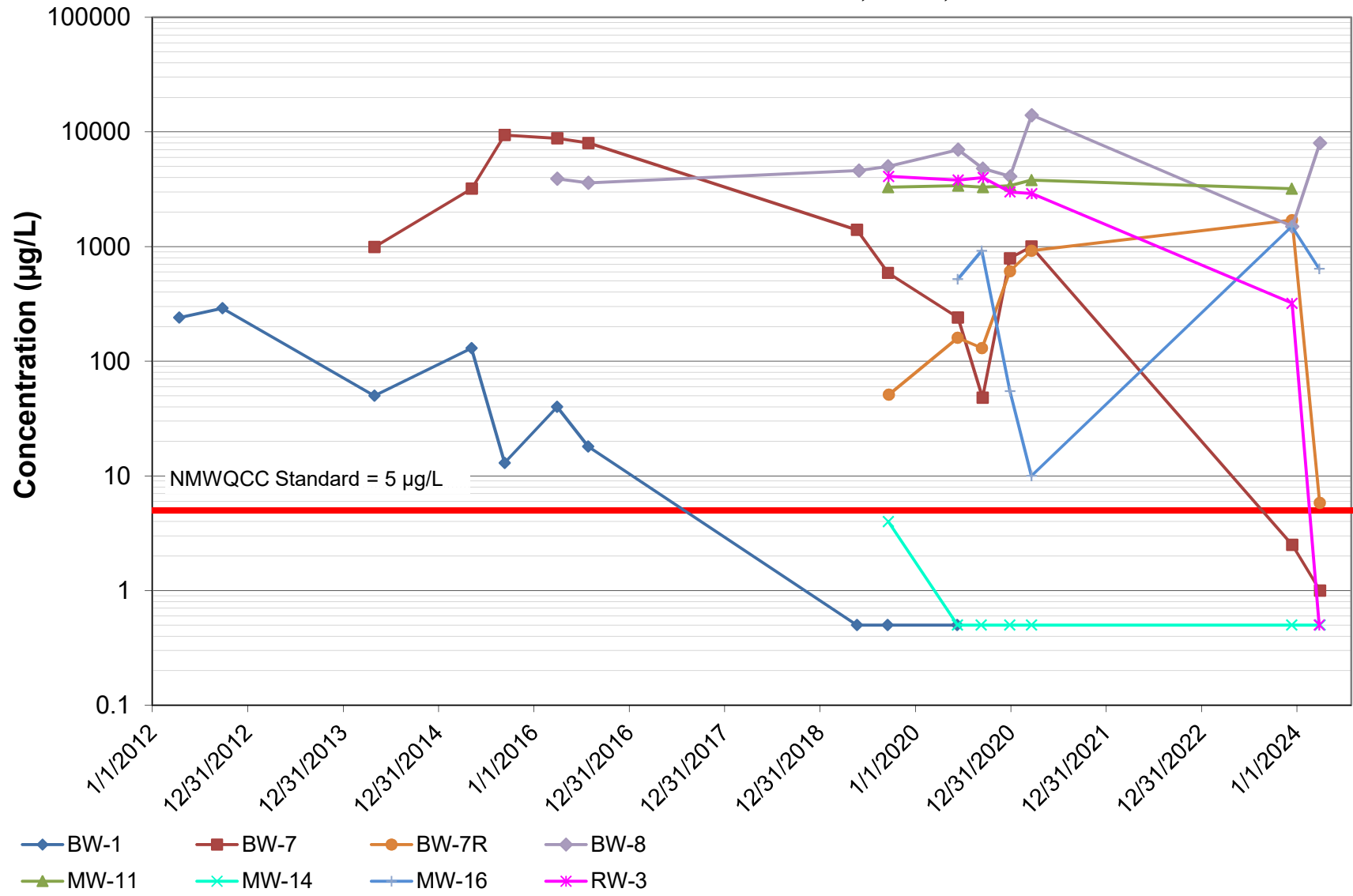
BW-5 Fluid Levels

Former Y Station State Lead Site, Clovis, New Mexico



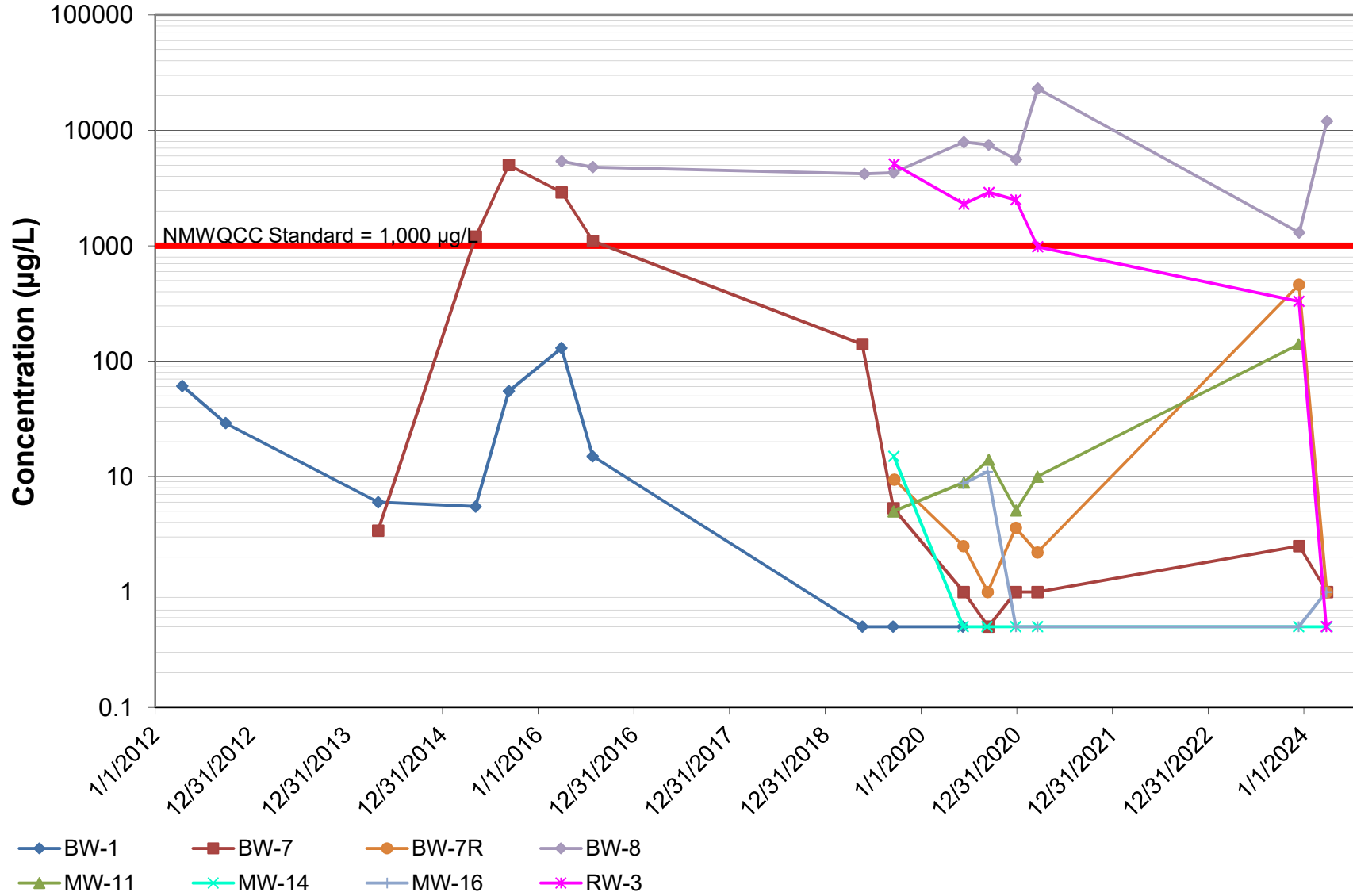
Benzene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



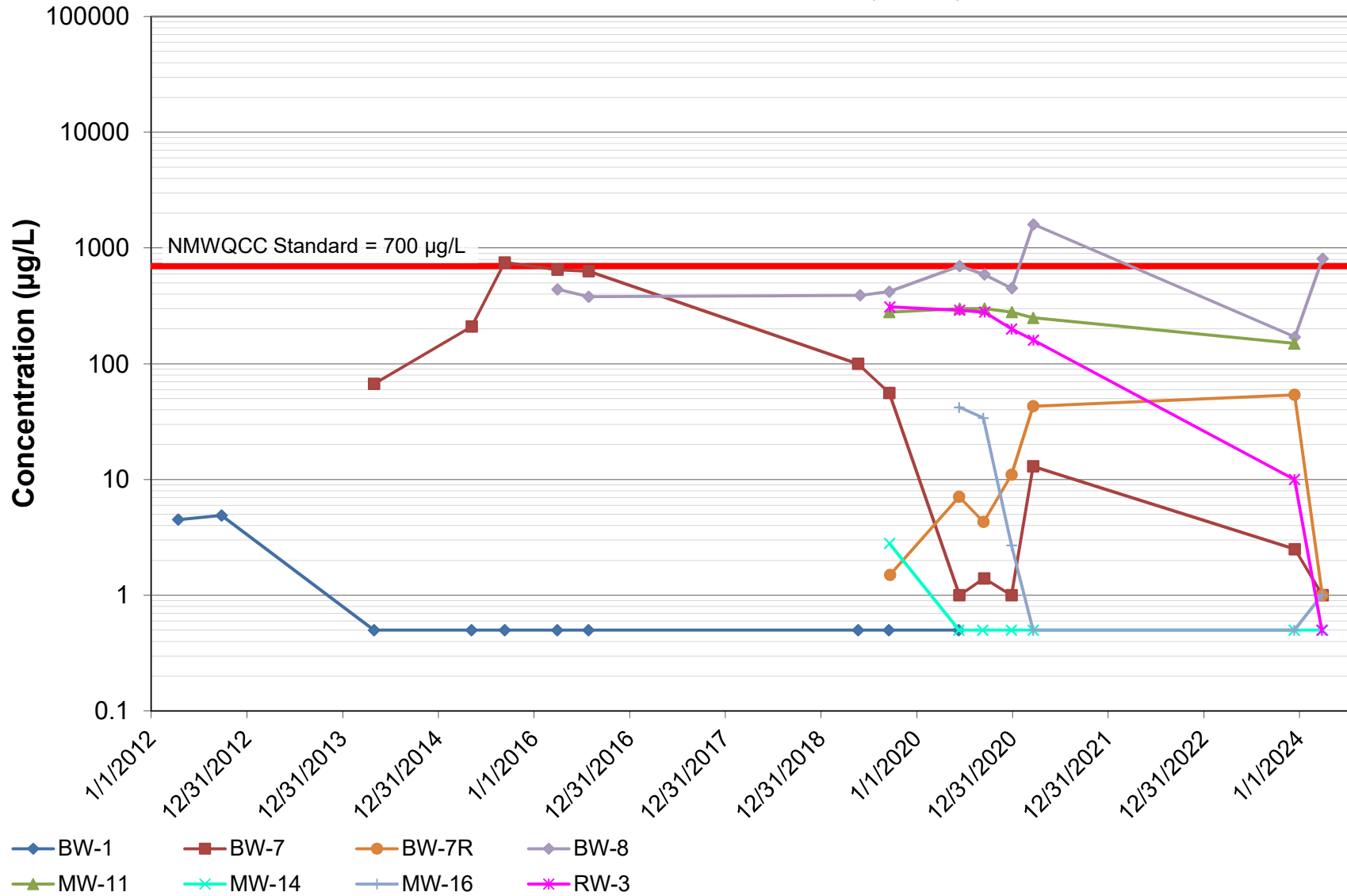
Toluene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



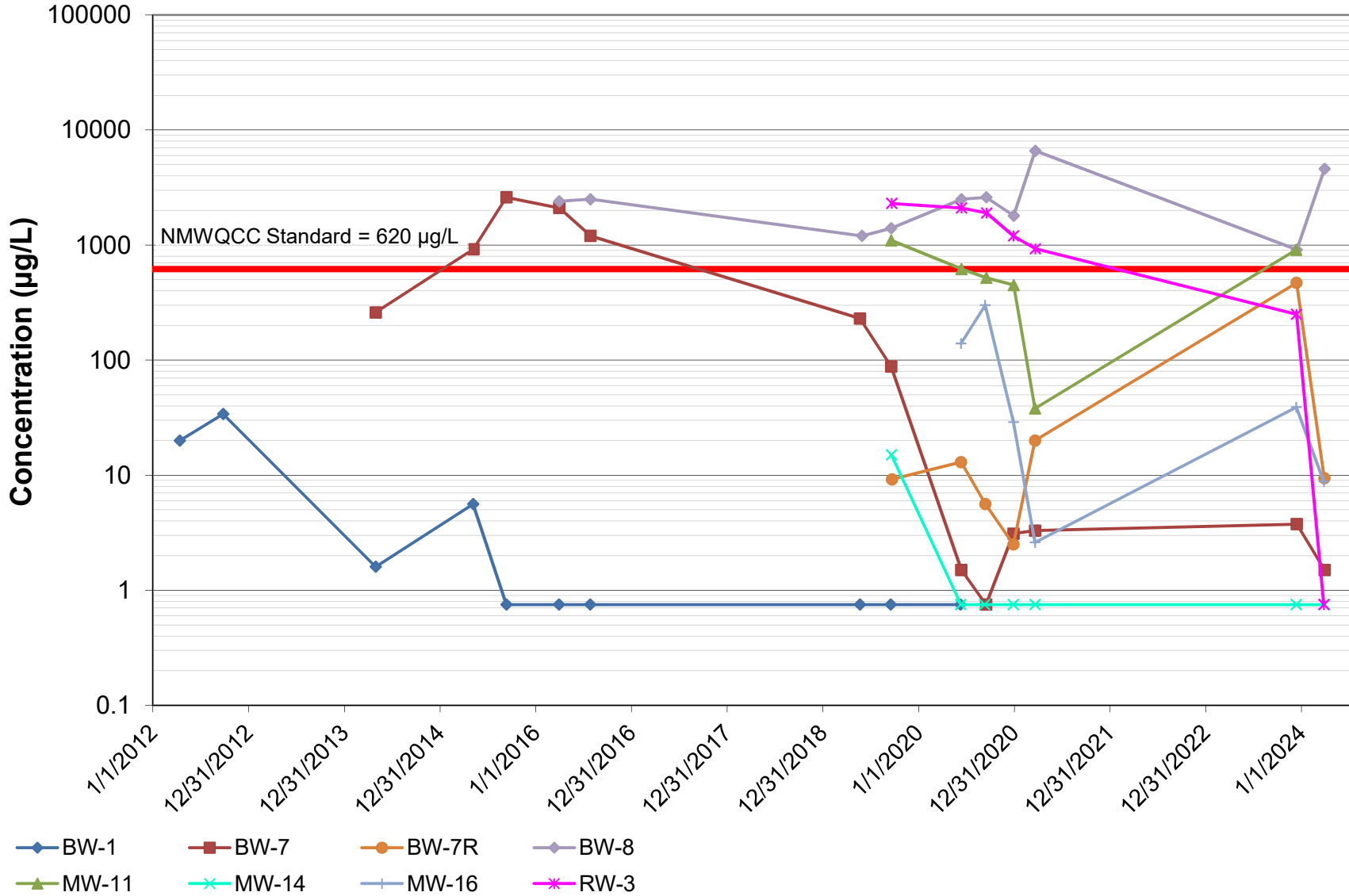
Ethylbenzene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



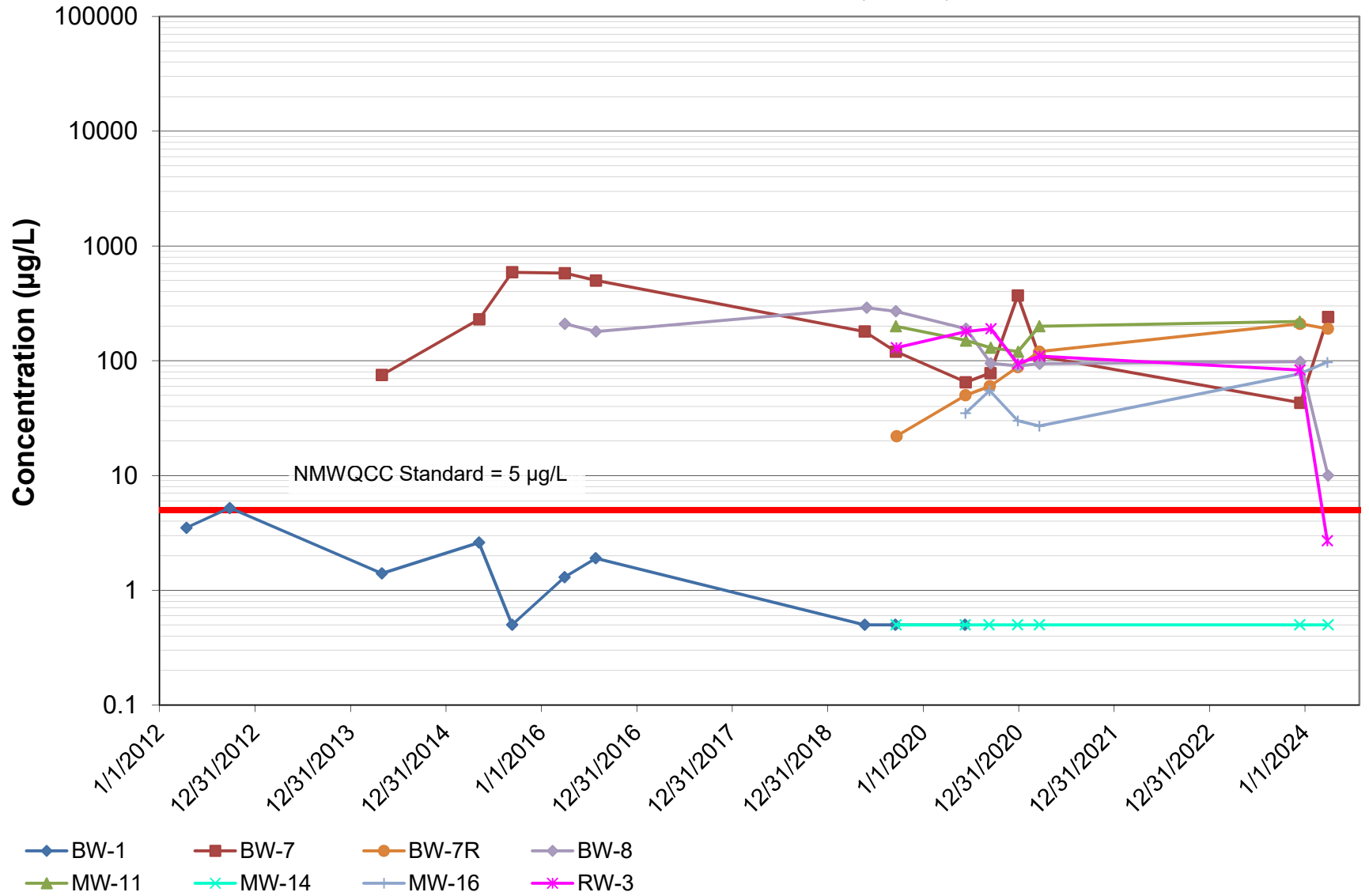
Total Xylene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



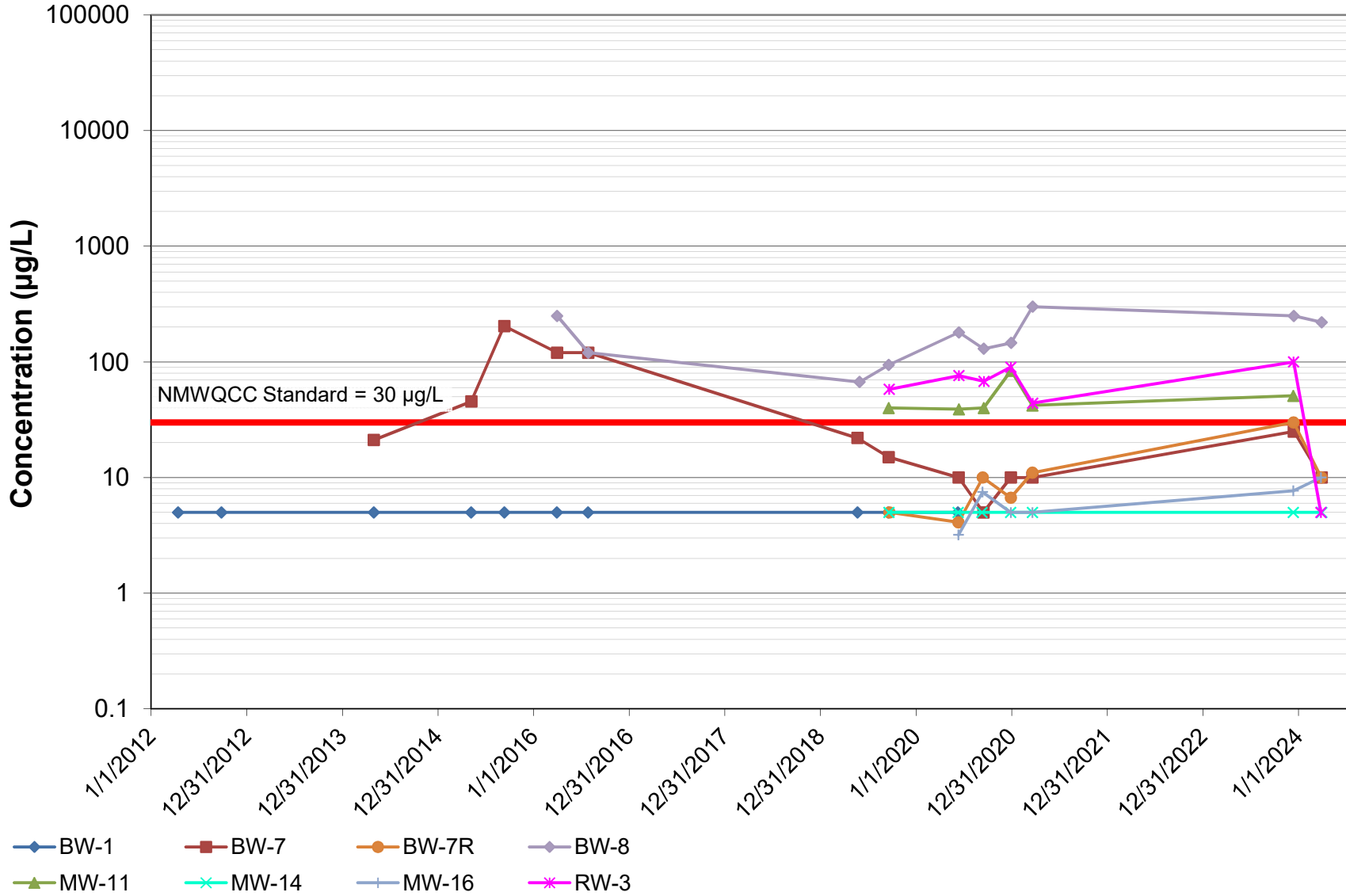
EDC Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



Total Naphthalene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico

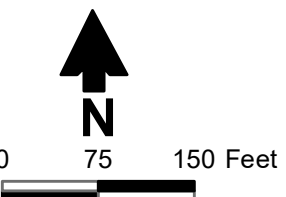


Appendix H

Baseline Plume Maps



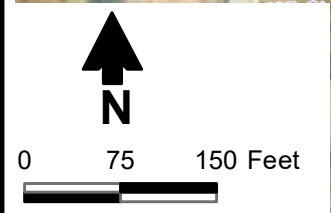
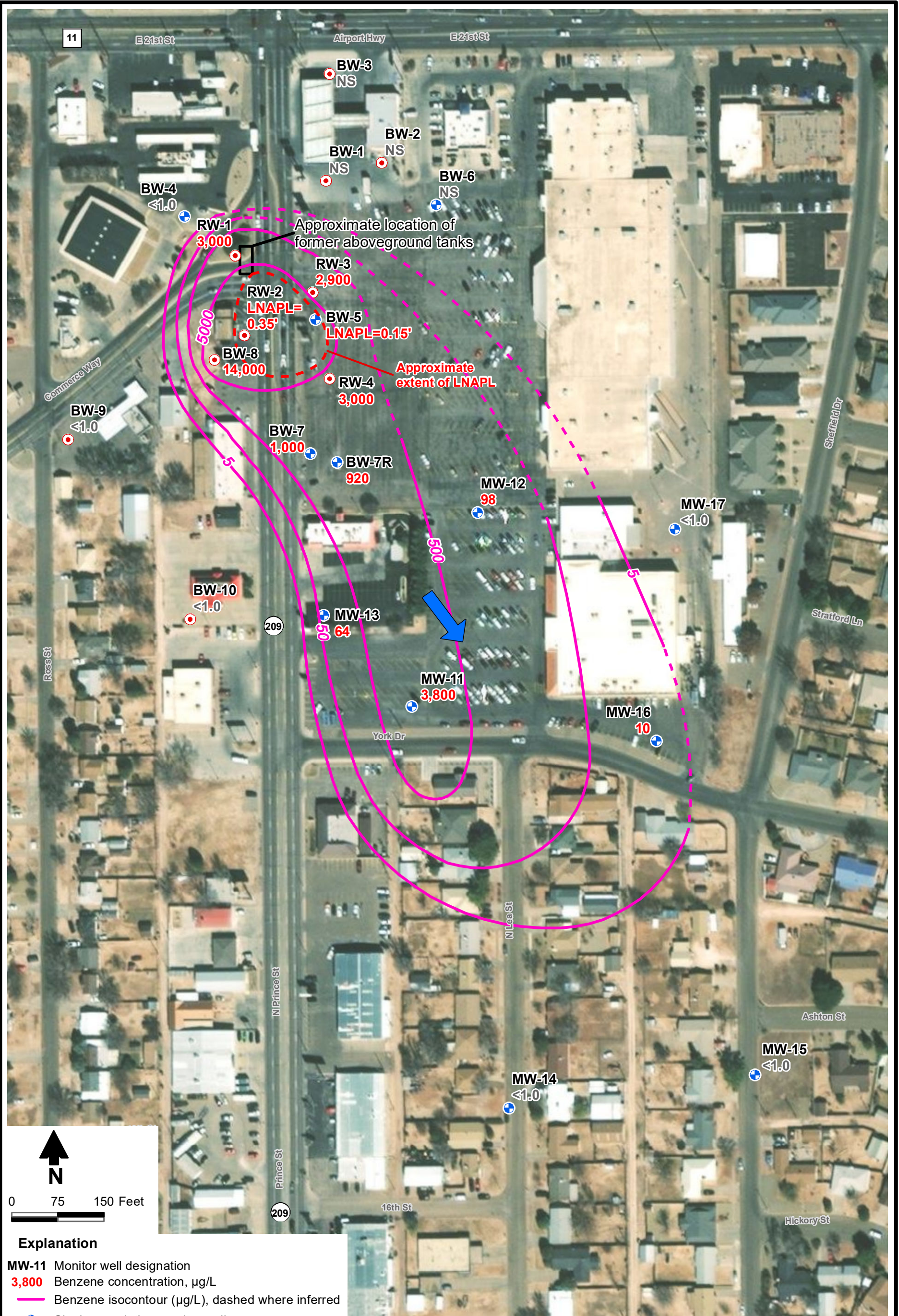
FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
**Distribution of Dissolved-Phase
 Contaminants - March 2021**



- Explanation**
- Single completion monitor well
 - Nested monitor well

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

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



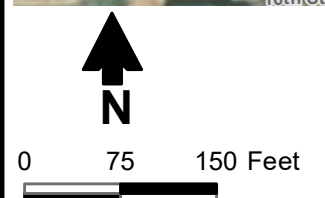
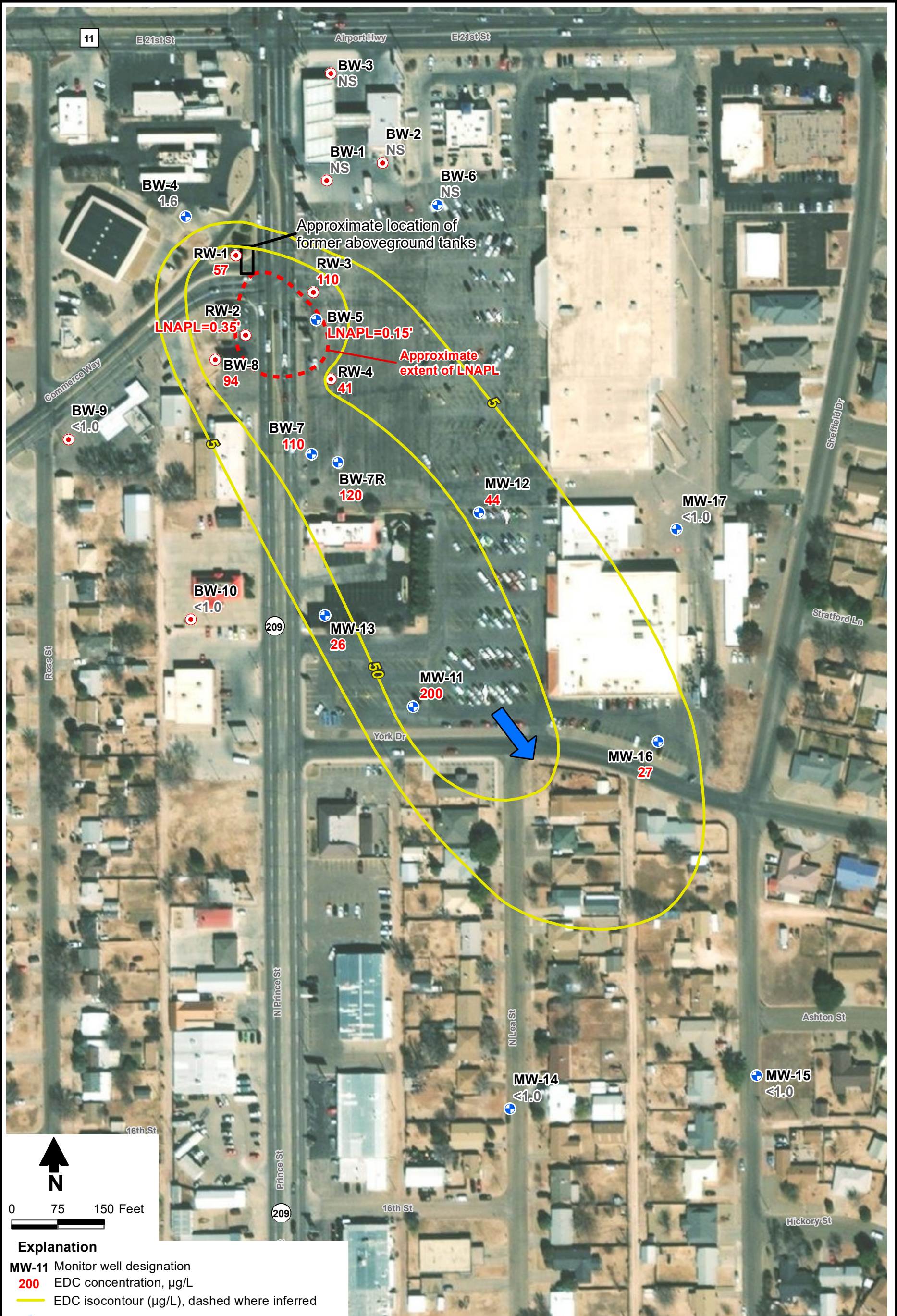
Explanation

- MW-11 Monitor well designation
- 3,800 Benzene concentration, µg/L
- Benzene isocontour (µg/L), dashed where inferred
- ⊕ Single completion monitor well
- ⊙ Nested monitor well

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

FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
Benzene Isoconcentration Map
March 2021





Explanation

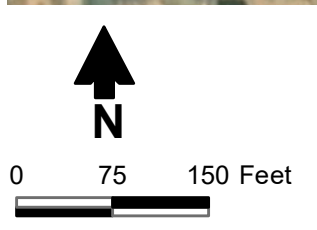
- MW-11 Monitor well designation
- 200** EDC concentration, µg/L
- EDC isocontour (µg/L), dashed where inferred
- ⊕ Single completion monitor well
- ⊙ Nested monitor well

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

EDC Isoconcentration Map
March 2021





Explanation

- MW-11 Monitor well designation
- 0.14 EDB concentration, $\mu\text{g/L}$
- EDB isoconcentration ($\mu\text{g/L}$), dashed where inferred
- ⊕ Single completion monitor well
- ⊙ Nested monitor well

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

FORMER Y STATION STATE LEAD SITE
 CLOVIS, NEW MEXICO
EDB Isoconcentration Map
 March 2021

