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By PSTB at 9:07 am, Jul 23, 2020

July 22, 2020

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

Re: Final Monitor Well Installation and First Quarter Groundwater Monitoring Report
Former Y Station, 721 Commerce Way, Clovis, New Mexico
Facility #53742, Release ID #4746, WPID #4133

Dear Ms. Romero:

Daniel B. Stephens & Associates, Inc. (DBS&A) is pleased to submit this report documenting the site investigation activities conducted at the above-referenced site from May 13 through June 14, 2020, in accordance with work plan identification (WPID) number #4133. All work was completed in accordance with the requirements of Part 119 of the New Mexico Petroleum Storage Tank Regulations and DBS&A standard operating procedures.

DBS&A plans to invoice the full approved amount of $32,549.12 for Deliverable ID #4133-2 (including New Mexico gross receipts tax), as all planned work was completed.

Please contact us at (505) 822-9400 if you have any questions or require additional information.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

Thomas Golden, P.E.
Project Engineer

Amy Ewing, P.G.
Hydrogeologist

AE/ed
Attachments

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Final Well Installation and
First Quarter Groundwater Monitoring Report
Former Y Station
721 Commerce Way, Clovis, New Mexico
Facility ID #53742, Release ID #4746

Prepared for **New Mexico Environment Department**
Petroleum Storage Tank Bureau
Roswell, New Mexico

July 22, 2020

Daniel B. Stephens & Associates, Inc.

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Final Well Installation and First Quarter Groundwater Monitoring Report Former Y Station State Lead Site

721 Commerce Way, Clovis, New Mexico

Facility ID #53742, Release ID #4746

1. Introduction

Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this report documenting results of well installation and first quarter groundwater monitoring activities at the Former Y Station State Lead site (the site), located at 721 Commerce Way in Clovis, New Mexico (Figure 1). All field activities were performed in accordance with DBS&A standard operating procedures (SOPs) and work plan identification (WPID) #4133, which was approved by the New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (PSTB) on February 19, 2020 (NMED, 2020). The report was prepared in accordance with applicable sections of Part 119 of the Petroleum Storage Tank Regulations (PSTR).

1.1 Site Background

Initial site investigation activities completed by the previous consultant in 2011 were driven by the discovery of a release during a tank pull at the Allsup's No. 320 site (Allsup's), located at the corner of Prince and 21st Streets. Subsequent investigations from 2012 to 2016 revealed a large dissolved-phase hydrocarbon plume south of the Allsup's, 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 Shamrock-brand fueling station was formerly present on the southwest corner of this intersection, locally referred to as "the Y", and was reportedly active from the late 1950s through approximately 1981. The site is currently an optical retail center and is surrounded by a variety of other commercial land uses, such as big-box retailer stores, fast food restaurants, and existing gasoline service stations. Residential neighborhoods are adjacent to the commercial corridor to the west and east.

The previous consultant oversaw the 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). As of July 2016, the extent of groundwater contamination remained undefined to the south and east. Benzene was the constituent found at the highest concentrations and across 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.

On October 24, 2017, DBS&A submitted a proposal in response to the request for proposals for State Lead remediation services for the site. DBS&A was determined to be the most responsive bidder and entered into a contract with NMED executed on May 15, 2018. On May 30, 2019, DBS&A initiated an additional investigation program to install 9 new monitor and/or remediation wells at the site. One of the primary goals was to characterize soil and groundwater conditions directly under the site of the Former Y station.

DBS&A personnel first observed light nonaqueous-phase liquid (LNAPL) in monitor well BW-5 on March 6, 2019. The LNAPL thickness in BW-5 has been measured at approximately 9 inches during subsequent groundwater monitoring events. Based on the observed groundwater flow direction to the south-southeast, it is reasonable to assume that the LNAPL in BW-5 could have originated from a source area associated with the Former Y station. Based on the location of BW-5 relative to the presumptive release point, a significant volume of LNAPL is believed to exist within the soil column and at the water table under North Prince Street and Commerce Way.

DBS&A installed 5 new monitor wells (BW-7R and MW-11 through MW-14) and 4 new remediation wells (RW-1 through RW-4) and performed a baseline groundwater monitoring event in 2019. Based on the data collected during the event, concentrations of dissolved-phase COCs in excess of New Mexico Water Quality Control Commission (NMWQCC) standards extend at least 1,400 feet downgradient from the presumed release point. The dissolved-phase plume remained undefined primarily cross-gradient to the east, with multiple COCs detected above the NMWQCC standards in newly installed monitor wells MW-11 and MW-12.

Data collected during installation of remediation wells RW-1 through RW-4 confirmed the conceptual site model detailed in DBS&A's proposal for State Lead remediation services.

Significant contamination is present in the vadose zone adjacent to the release point; however, contamination in the smear zone in downgradient wells appeared to be less than previously believed.

Based on the 2019 investigation findings, DBS&A recommended that corrective action proceed as detailed in the DBS&A proposal for State Lead remediation services, with the remediation system prioritizing removal of source area mass (LNAPL and hydrocarbons in the vadose zone) using multi-zone remediation wells located near the known extent of LNAPL. DBS&A also recommended installing three new monitor wells, one downgradient well near the intersection of Ashton Street and Sheffield Drive, one cross-gradient well in the parking lot south of Albertsons Market, and one cross-gradient well east of MW-12 behind Brown's Shoe Fit. These wells were recommended to define the extent of contamination cross-gradient to the east, but do not affect the overall remediation plan for the site.

These three new monitor wells were installed during the current investigation. This report documents field activities and results of the 2020 well installation and first quarter groundwater monitoring at the site.

1.2 Scope of Work

The scope of work completed under Deliverable ID #4133-2 consisted of documenting the additional site investigation, which included installing 3 groundwater monitor and/or remediation wells, field screening soil samples, characterizing the subsurface geology, and conducting the first quarter groundwater sampling event. Details of the investigation activities and findings are provided in Section 2, and the first quarter monitoring event is discussed in Section 3. To ensure that project objectives were achieved, an authorized representative of DBS&A maintained direct supervisory control of all aspects of the project.

2. Drilling and Well Installation

The field investigation was performed under the oversight of DBS&A field scientists with direction from the DBS&A project manager and was conducted in accordance with the approved work plan (DBS&A, 2019) and DBS&A SOPs. DBS&A contracted with Yellow Jacket Drilling

(YJD) of Phoenix, Arizona to perform the drilling activities. Utility clearances were provided by New Mexico One Call following site visits to mark the proposed well locations. Prior to drilling, DBS&A contacted the affected property owners to ensure that existing access agreements were suitable for the proposed activities; no new agreements were obtained. Well permits were obtained from the New Mexico Office of the State Engineer (Appendix A).

Field activities were conducted from May 13 through June 14, 2020. DBS&A and YJD completed the drilling and well installation activities in two shifts between May 13 and June 2, 2020 (working May 13 through 21 and May 27 through June 2). DBS&A and YJD performed well development tasks on June 10 and 11, 2020, and DBS&A staff sampled the site monitor wells on June 8 through June 14, 2020. Field notes documenting drilling and associated field activities are provided in Appendix B. Photographic documentation of the drilling and well installation tasks is included in Appendix C.

A total of 3 wells were installed during the additional investigation. Drilling and well installation were performed using a Speedstar 50K drilling rig equipped with air rotary casing hammer (ARCH)/downhole hammer drilling technology. Total depth for each borehole was determined in the field by the DBS&A field scientist. Due to the air based drilling method, soil samples were not submitted for laboratory analysis during this event, but soil analytical chemistry data from the 2019 well installations are included in Table 1. Well construction details are summarized in Table 2 and are described in Section 2.3. As-built diagrams for each new well installation are provided with the well diagrams in Appendix D.

2.1 Lithologic Logging

Lithologic logging was conducted with continuous observation during ARCH drilling, with descriptions noted at 5- to 10-foot intervals, or with prominent changes in lithology. Lithologic logs included descriptions of soil or rock type, moisture content, and hydrocarbon odors. Soil borings were advanced to depths of 358, 366, and 375 feet below ground surface (bgs) at the locations shown on Figure 2. Geologic materials encountered during drilling consisted primarily of sand and silty sand with minor clay and gravel. Caprock (partially-cemented calcium carbonate) was noted in all borings from approximately 10 feet bgs to varying depths of approximately 60 to 80 feet bgs. In addition, a clayey sand and gravel layer was noted in the

bottom of all borings, as was seen in the 2019 drilling investigation. This discovery helped explain the hydraulic conductivity values determined during previous laboratory and field aquifer testing, which were lower than published values.

2.2 Soil Sampling and Field Screening

Soil samples were collected continuously from the soil borings and were field-screened using a photoionization detector (PID) and the heated headspace method in accordance with DBS&A SOPs. At each borehole location, sub-samples were collected from each interval for field screening and geologic description. Due to the air based drilling method, soil samples were not submitted for laboratory analysis.

During field screening, the presence of contamination was assessed using PID readings, with values exceeding 100 parts per million by volume (ppmv) indicating the presence of petroleum-impacted soil. Results of field screening for total hydrocarbons are included on the well diagrams (Appendix D). All PID readings were less than 10 ppmv, indicating that petroleum impacts to soil were minimal in the soil borings (MW-15, MW-16, or MW-17).

2.3 Well Completion

The 3 soil borings were completed as 5-inch-diameter monitor wells (designated MW-15, MW-16, and MW-17). All wells were installed in accordance with 19.27.4.30 New Mexico Administrative Code (NMAC). General specifications adhered to during well installation were as follows:

- Wells were completed using Schedule 80 (SCH 80) polyvinyl chloride (PVC) well materials, including a 5-foot blank casing sump and end cap below the well screen, 70 feet of flush-threaded, machine-cut, 0.020-inch slot well screen, and blank, flush-threaded casing extending from the top of the screened interval to the surface.

- 12/20 silica sand was placed in the annulus around each screened interval from the bottom of the boring to about 3 feet above the top of the screen.

- A minimum 5-foot-thick bentonite chip seal was installed on top of the sand pack. The remaining annulus was filled with a high solids bentonite grout to approximately 20 feet bgs, then with cement/bentonite grout from there to the surface.

- Well screens were centered in the boring by affixing stainless steel centralizers at 20-foot intervals from total depth to 20 feet above the water table, and 60-foot intervals from 20 feet above the static water table to ground surface.

- Monitor wells were completed at the surface with a locking cap within a 12-inch-diameter, flush-mount, traffic-rated steel well vault. A 6-inch-thick concrete pad was poured around each well vault.

Target well screen placement in wells was approximately 40 feet above and 30 feet below the static water table. Depth to water was measured in the new wells on June 8, 2020 (Table 2), and values are shown on the well diagrams. As-built diagrams and specific completion details for each new well are provided with the well diagrams (Appendix D). Following well completion, a 10-foot- long steel pipe (dummy) of 4.5-inch outside diameter was run to the bottom to ensure the casing is plumb and a pump can be installed. Photograph 9 shows the dummy pipe being deployed in monitor well MW-16 (Appendix C).

The conceptual cross section is provided as Figure 3; however, it was not updated as part of the current investigation. Based on the project data, the fuel product infiltrated vertically at the point of release, through the caprock and unconsolidated sediments of the Ogallala Formation, with some lateral migration at depth. The extent of hydrocarbon contamination in the shallow vadose zone is limited to the vicinity of the release. Deep vadose zone soil contamination appears to be present across a smaller area than initially theorized.

2.4 Well Development

After completion, each well was developed by bailing and surging until suspended sediment was reduced and conditions were suitable for pumping. Pumping development continued until groundwater parameters stabilized and turbidity was reduced to the extent practicable, as determined by the DBS&A on-site scientist.

New monitor wells MW-15, MW-16, and MW-17 were developed on June 10 and 11, 2020, following completion of the drilling program. Photographic documentation of well development activities is provided in Appendix C. Development water was transferred to an on-site vacuum tank, which was hauled off-site for disposal by Gandy Marley, Inc. (GMI) of Roswell, New Mexico.

2.5 Investigation-Derived Waste

Investigation-derived waste (IDW) was stored in on-site mud boxes (roll-off bins) for disposal at a licensed facility by GMI. A total of 5 mud boxes of IDW were removed from the site between May 15 and June 3, 2020. Waste manifests are provided in Appendix E.

2.6 Survey

Spatial locations and measuring point elevations were surveyed to a common datum for a total of 3 wells by New Mexico-Licensed Professional Land Surveyor Lydick Engineers & Surveyors of Clovis, New Mexico. The well survey report is presented as Appendix F. The survey was based on New Mexico State Plane Coordinates, North American Datum of 1983 (NAD83), and the North American Vertical Datum of 1988 (NAVD88).

3. Groundwater Monitoring

DBS&A personnel conducted the first quarter groundwater monitoring event at the site on June 8 through 14, 2020. Activities conducted during the monitoring event included gauging water levels in and collecting groundwater samples from up to 22 site wells. LNAPL was recovered from any well containing LNAPL at a thickness of greater than ⅛ inch (0.01 foot). Groundwater wells without measurable LNAPL were sampled for laboratory analysis. Field notes recorded during sampling activities are included in Appendix B. The sampling protocol is provided in Appendix G.

3.1 Fluid Level Gauging

On June 8, 2020, DBS&A personnel used an electronic interface probe to gauge the depth to water (and LNAPL where present) in all existing monitor wells. Fluid level measurements from

this and previous groundwater monitoring events are summarized in Table 3. Based on information determined from LNAPL sampling performed during the June 2019 groundwater monitoring event, gasoline was shown to be the predominant LNAPL present at the site. Therefore, the potentiometric surface elevation for any well containing LNAPL was corrected using a specific gravity of 0.75. Fluid level data were used to prepare a potentiometric surface elevation map (Figure 4).

3.2 LNAPL Recovery

LNAPL was present in monitor well BW-5 at a thickness of 0.58 foot on June 8, 2020. LNAPL was recovered by hand bailing for approximately 50 minutes using a new, dedicated, disposable 3-inch polyethylene bailer. A total of 0.46 gallon of LNAPL was recovered, with a final LNAPL thickness of 0.01 foot. After starting at 1.92 feet in March 2019, initial LNAPL thickness has decreased with each subsequent LNAPL recovery event. LNAPL recovery is summarized in Table 4.

3.3 Groundwater Sampling

A total of 21 site wells were sampled on June 9 through June 14, 2020 following gauging on June 8, 2020. This included BW-1 through BW-4, BW-6, BW-7, BW-7R, BW-8, BW-9, BW-10, MW-11 through MW-17, and RW-1 through RW-4. The work plan called for sampling a reduced set of 18 wells (the approved work plan does not include sampling BW-1, BW-2, BW-3, or BW-6, as they are sampled for Allsup's under a different approved work plan). The four additional water quality samples were collected at no additional cost to the PSTB.

The 21 site wells were purged and sampled using a DBS&A-owned Bennett pump. The Bennett pump is a piston fluid pump with two motor pistons capable of lifts of up to 1,000 feet. Nitrogen gas is conveyed to the pump to operate the piston, which returns groundwater to the surface. The pump and associated tubing coils on and off a reel operated by a 50-ampacity motor. The tubing bundle, reel, and motor are all mounted on a flatbed trailer.

During Bennett pump purging, extracted groundwater water was pumped into a calibrated, 5-gallon bucket to assess the presence of LNAPL and measure purge volume. Purge water

from the Bennett pump was handled in accordance with the sampling protocol (Appendix G). Groundwater field parameters, including dissolved oxygen (DO), oxygen/reduction potential (ORP), electrical conductivity (EC), pH, and temperature, were measured in the field during purging and recorded in the field notes (Appendix B).

In addition to being sampled using the Bennett pump, monitor wells BW-8, MW-11, and MW-14 were also sampled using HydraSleeve no-purge groundwater sampling systems, in order to compare the data collected using the two sampling methodologies. DBS&A deployed two HydraSleeve samplers in each well, one 5 feet below the static water surface and a second 5 feet above the bottom of the well screen. Following HydraSleeve deployment, the samplers were left in the wells for at least 24 hours to allow the water level to return to static. HydraSleeves remain closed due to water pressure until they are retrieved. The upward motion of retrieval opens the HydraSleeve's check valve, and the bag fills from the top. When the HydraSleeve sample bag is full, the check valve closes, allowing the sample to be collected from a discrete depth, reducing turbidity of the sample, and preventing water above (or below) the desired sample zone from entering the sample bag. The sample bag is pierced with a straw to transfer the sample to laboratory provided sample bottles.

Groundwater samples collected from the wells were transferred directly from the Bennett pump tubing or HydraSleeve into laboratory-prepared sample containers containing the appropriate preservatives. The samples were labeled and preserved on ice in an insulated cooler for delivery to Hall Environmental Analysis Laboratory (HEAL) for analysis; samples were accompanied by full chain of custody documentation at all times. Groundwater samples were analyzed for volatile organic compounds, (e.g., benzene, toluene, ethylbenzene, and total xylenes [BTEX], methyl-tertiary butyl ether [MTBE], 1,2-dichloroethane (EDC), and total naphthalenes [naphthalene plus methyl-naphthalenes])using U.S. Environmental Protection Agency (EPA) method 8260B (full list) and for 1,2-dibromoethane (EDB) using EPA method 504.1. The complete laboratory analytical report for collected groundwater samples is included in Appendix H.

3.4 Results

Results from groundwater monitoring activities during the June 2020 groundwater monitoring event are discussed below.

3.4.1 Fluid Level Measurements

Fluid levels measured on June 8, 2020, are summarized in Table 3 and were used to construct the potentiometric surface map provided in Figure 4. Due to variation in surface topography, groundwater is encountered under the site at depths that range from approximately 318 to 330 feet 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 that noted during previous monitoring events. Since 2014, groundwater elevations have decreased approximately 3.2 feet, resulting in an average annual decrease of 0.5 foot per year (Appendix I).

3.4.2 Groundwater Analysis

Groundwater samples from the 21 existing monitor wells that do not contain a measurable thickness of LNAPL were submitted to HEAL for analysis as described in Section 3.3. The full laboratory analytical report is provided in Appendix H; results are summarized in Table 5 and on Figure 5. Benzene, EDC, and EDB isoconcentration maps were prepared to show the extent of dissolved-phase contamination associated with the site (Figures 6 through 8). Graphs showing historical trends in monitor well contaminant concentrations are provided in Appendix I.

During the current monitoring event, concentrations of COCs were below laboratory reporting limits or applicable NMWQCC standards in groundwater samples collected from monitor wells BW-1 through BW-3, BW-6, BW-9, BW-10, MW-15, and MW-17. The sample collected from monitor well BW-4 had an EDC concentration equal to the applicable standard (5.0 micrograms per liter [µg/L]). The samples collected from BW-7, BW-7R, BW-8, MW-11 through MW-14, MW-16, and RW-1 through RW-4 contained multiple COCs at concentrations exceeding NMWQCC standards. Monitor well BW-5 has been reported to contain LNAPL since February 2019, but DBS&A first measured LNAPL with an interface probe in March 2019. Notable changes or trends include:

- BW-4: Concentrations of COCs have significantly fluctuated in the historic record. Except for EDC, COC concentrations have been below applicable groundwater standards for three consecutive groundwater monitoring events. Benzene has previously been detected at concentrations as high as 1,100 µg/L in this well, but the detected concentration (2.2 µg/L) was below the applicable standard during the current monitoring event. Due to a relatively high soil vapor extraction (SVE) radius of influence (ROI) at the site, contamination may have been drawn to BW-4 during vapor sampling activities conducted by the previous consultant. DBS&A will monitor trends associated with this well closely, because it is upgradient from the presumed release at the Former Y Station.

- BW-7: The total BTEX concentration decreased from 739.3 to 240 µg/L since the previous monitoring event in September 2019 and is significantly lower than the historically high values measured in 2015 and 2016. During the current monitoring event, benzene (240 µg/L), EDB (0.86 µg/L), and EDC (65 µg/L) were detected at concentrations exceeding the respective NMWQCC standards. The screen interval for BW-7 was confirmed to be damaged during the 2019 site investigation, which precipitated the installation of BW-7R, but COC concentrations are similar to those measured in new well BW-7R. Similar to BW-4, the spike in COC concentrations in 2015 and 2016 may be related to vapor sampling activities conducted by the previous consultant.

- BW-7R: The total BTEX concentration increased slightly from 71.1 to 182.6 µg/L since the previous monitoring event in September 2019. During the current monitoring event, benzene (160 µg/L), EDB (0.36 µg/L), and EDC (50 µg/L) were detected at concentrations exceeding the respective NMWQCC standards. COC concentrations are similar to existing well BW-7.

- BW-8: COC concentrations have not varied significantly since the well was installed in 2016. The total BTEX concentration increased from 11,120 to 18,100 µg/L since the previous monitoring event in September 2019. During the current monitoring event, benzene (7,000 µg/L), toluene (7,900 µg/L), total xylenes (2,500 µg/L), EDB (0.72 µg/L),

EDC (190 µg/L), and total naphthalenes (180 µg/L) were detected at concentrations exceeding the respective NMWQCC standards.

- MW-11: COC concentrations have not changed significantly since the well was installed in September 2019. During the current monitoring event, benzene (3,400 µg/L), total xylenes (620 µg/L), EDB (2.9 µg/L), EDC (150 µg/L), and total naphthalenes (39 µg/L) were detected at concentrations exceeding the respective NMWQCC standards.

- MW-12: COC concentrations have not changed significantly since the well was installed in September 2019. During the current monitoring event, benzene (1,400 µg/L), EDB (0.5 µg/L), and EDC (85 µg/L) were detected at concentrations exceeding the respective NMWQCC standards.

- MW-13: COC concentrations indicate this well is on the western edge of the dissolved-phase plume. Benzene (79 µg/L) and EDC (6.6 µg/L) were detected just above the respective NMWQCC standards.

- MW-14: COCs were not detected at concentrations above laboratory reporting limits during the current monitoring event. Detections during the September 2019 monitoring event, including an EDB concentration at the NMWQCC standard of 0.05 µg/L, may have been an artifact of well development. Trends will be monitored closely in this well.

Results for newly installed groundwater monitor wells include:

- MW-15: No COCs were detected at concentrations above laboratory reporting limits.

- MW-16: Benzene (520 µg/L), EDB (0.82 µg/L), and EDC (35 µg/L) were detected at concentrations exceeding the respective NMWQCC standards. All other COC concentrations were either below the NMWQCC standards or the laboratory reporting limits.

- MW-17: No COCs were detected at concentrations above laboratory reporting limits.

Water quality samples collected from monitor wells BW-8, MW-11, and MW-14 using HydraSleeve no-purge groundwater sampling systems were submitted to HEAL for analysis, as discussed in Section 3.3. Data for all samples are included in Table 5, and on Figure 9. Notable comparisons include:

- BW-8: The most significant deviation in the HydraSleeve samples was the absence of EDC, despite a detection of 190 µg/L in the Bennett pump sample. EDB in the HydraSleeve samples was also slightly less than the Bennett pump sample, although all three samples were less than 1 µg/L. Concentrations of BTEX constituents in all three samples were statistically similar.

- MW-11: Concentrations of total BTEX were similar in the three samples, although the ratio of individual constituents was different. HydraSleeve samples contained a larger percentage of benzene and a significantly smaller percentage of total xylenes. Concentrations of other COCs, including EDB, EDC, and total naphthalenes were similar in the three samples.

- MW-14: No COCs were detected at concentrations above laboratory reporting limits in the three samples.

Initial HydraSleeve samples have correlated well with corresponding Bennett pump samples. We recommend additional samples be collected during the next quarterly monitoring event to evaluate the deviations identified above; however, these deviations could be related to relatively large purge volumes required to collect samples using the Bennett pump. For BW-8, EDB and EDC are relatively soluble and could be mobilized from source area mass located immediately east of the well location. For MW-11, purge volumes could be diluting benzene concentrations and drawing in total xylenes. Trends will be monitored closely.

4. Conclusions and Recommendations

Based on data collected during recent well installations and groundwater monitoring events, concentrations of dissolved-phase COCs in excess of NMWQCC standards extend more than 1,000 feet downgradient from the presumed release. COC concentrations in newly installed

monitor wells MW-15 and MW-17 were below laboratory reporting limits, and define the dissolved-phase plume east of MW-12 and MW-14. The dissolved-phase plume remains undefined cross-gradient to the east of newly installed monitor well MW-16, but that will not affect the overall remediation plan for the site.

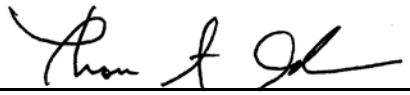
LNAPL has been consistently present in monitor well BW-5 since at least February 2019. Based on the location of BW-5 relative to the release point, a significant volume of LNAPL is believed to exist under North Prince Street and Commerce Way. Remediation wells RW-1 through RW-4 do not currently contain a measurable thickness of LNAPL; however, more time may be needed for LNAPL to accumulate in the wells.

Based on these findings, DBS&A recommends that corrective action proceed as detailed in the DBS&A proposal for State Lead remediation services. The remediation system should prioritize removal of source area mass (LNAPL and hydrocarbons in the vadose zone) using multi-zone remediation wells located near the known extent of LNAPL. Single-zone wells can be used for dissolved-phase plume containment. Deep vadose zone contamination was found in the multi-zone remediation wells, but not in single-zone wells south of RW-4, so well locations appear to have been chosen appropriately for the distribution of contamination.

DBS&A recommends that quarterly groundwater monitoring continue at the site to establish trends in contaminant concentrations prior to and following implementation of a corrective action system. No additional monitor wells are needed at this time.

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: Project Engineer

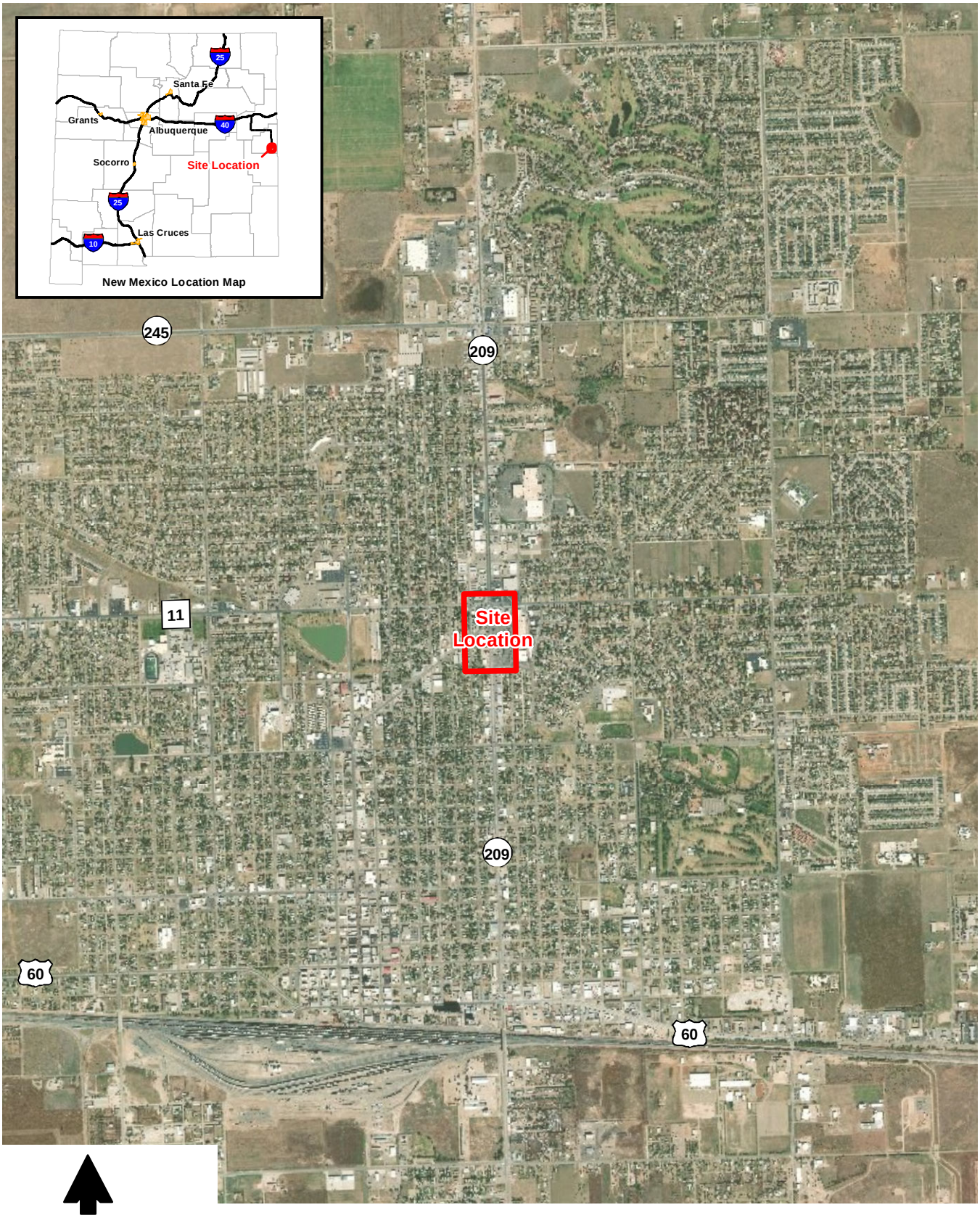
Date: July 22, 2020

References

Daniel B. Stephens & Associates, Inc. (DBS&A). 2019. *Work plan for site investigation, groundwater monitoring, and final remediation plan development, Former Y Station State Lead Site, 721 Commerce Way, Clovis, New Mexico.* Submitted to the New Mexico Environment Department Petroleum Storage Tank Bureau. December 20, 2019.

New Mexico Environment Department (NMED). 2020. Letter from Dana Bahar to Thomas Golden, Daniel B. Stephens & Associates, Inc., regarding Phase 1 fixed-price workplan approval for Former Y Station, 721 Commerce Way, Clovis, New Mexico. February 19, 2020.

Figures



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FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Area Map

Daniel B. Stephens & Associates, Inc.
6/3/2019
JN DB18.1157.00

Figure 1

V:\Marketing\Proposals in Progress\DB17.1228.PR_NMED_Former_Y_Station_RA\GIS\MXD

Figure 2

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

Daniel B. Stephens & Associates, Inc.
6/16/2020 JN DB18.1157.00

A
NW

A'
SE

BW-4 RW-1 Gasoline storage tanks Former Y Shamrock RW-2 BW-8 BW-7 BW-7R MW-13 MW-11

4280
4210
4140
4070
4000
3930
3860

Caprock

Ogallala Formation

Silty sand

Gasoline impacted soil

389.4
110.9
284.6
>15,000
>15,000
>15,000
>15,000
>15,000
5,100
53,300
55,000
82,500
23,600
15.5
19.2
3.5

Approximate 1950's water table

Approximate 2019 water table

Dissolved-phase plume

Bedrock (Dockum Formation)

0' 70'

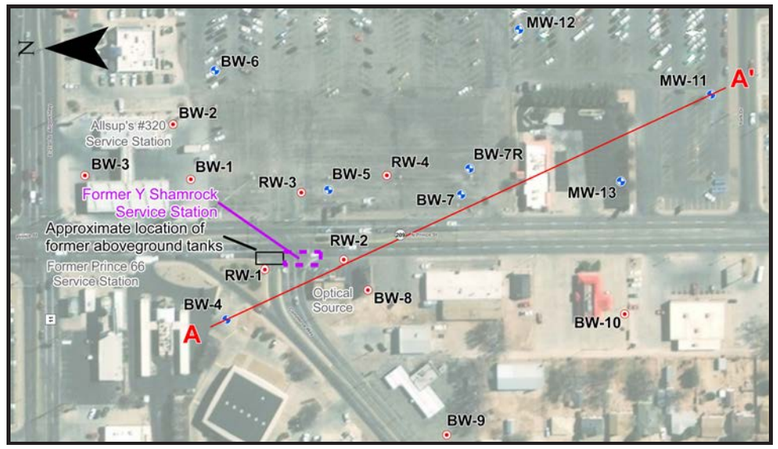
Explanation

- Single completion monitor well
- Nested monitor well
- Cross section A - A'
- 389.4 Field vapor concentration (ppmv)
- 23,600 TPH vapor concentration (µg/L)
- Approximate historical water table
- Approximate 2019 water table
- Hydrocarbon impacted area
- Contaminant flow direction
- Groundwater flow direction

- Monitor well
- Well screen
- Former gasoline storage tank
- Underground storage tank (UST)
- Building

Geology

- Caprock (Ogallala Formation)
- Ogallala Formation
- Clayey sand and gravel
- Bedrock (Dockum Formation)



FORMER Y STATION
STATE LEAD SITE
CLOVIS, NEW MEXICO

Geologic Cross Secton

Figure 3

Daniel B. Stephens & Associates, Inc.
11/14/2019 DB18.1157

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V:\Marketing\Proposals in Progress\DB17.1228.PR_NMED_Former_Y_Station_RA\GIS\MXD

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Potentiometric Surface Elevations
June 8, 2020

Figure 4

Daniel B. Stephens & Associates, Inc.
6/18/2020 JN DB18.1157.00

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BW-3			6/9/2020
<1.0	1.2	<1.0	<1.5
1.2	<0.0094	<1.0	<10
<1.0			

BW-1			6/9/2020
<1.0	<1.0	<1.0	<1.5
<4.5	<0.0093	<1.0	<10
<1.0			

BW-2			6/9/2020
<1.0	<1.0	<1.0	<1.5
<4.5	<0.0094	<1.0	<10
<1.0			

BW-4			6/10/2020
2.2	<1.0	<1.0	<1.5
2.2	<0.0093	5	<10
<1.0			

BW-6			6/9/2020
<1.0	<1.0	<1.0	<1.5
<4.5	<0.0095	<1.0	<10
<1.0			

Approximate location of former aboveground tanks

Former Y Shamrock Service Station

RW-1			6/13/2020
340	39	18	51
448	0.22	<5.0[a]	10
<5.0			

RW-3			6/13/2020
3,800	2,300	290	2,100
8,490	49	180	76
<20			

RW-2			6/14/2020
1,800	1,100	130	470
3,500	4.8	<20[a]	<200[a]
<20			

BW-5
LNAPL=0.58'

BW-8			6/13/2020
7,000	7,900	700	2,500
18,100	0.72	190	180
<20			

RW-4			6/12/2020
1,500	410	110	360
2,380	13	100	20
<5.0			

BW-7			6/12/2020
240	<2.0	<2.0	<3.0
240	0.86	65	<20
<2.0			

BW-7R			6/11/2020
160	2.5	7.1	13
182.6	0.36	50	4.1
<1.0			

BW-9			6/9/2020
<1.0	<1.0	<1.0	<1.5
<4.5	<0.0093	<1.0	<10
<1.0			

MW-12			6/12/2020
1,400	<10	10	130
1,540	0.50	85	<100[a]
<10			

MW-17			6/11/2020
<1.0	<1.0	<1.0	<1.5
<4.5	<0.0094	<1.0	<10
<1.0			

BW-10			6/10/2020
<1.0	<1.0	<1.0	<1.5
<4.5	<0.0093	<1.0	<10
<1.0			

MW-13			6/12/2020
79	<2.0	4.4	13
96.4	0.035	6.6	<20
<2.0			

MW-11			6/13/2020
3,400	8.9	300	620
4,328.9	2.9	150	39
<10			

MW-16			6/11/2020
520	8.7	42	140
710.7	0.82	35	3.2
<1.0			

MW-15			6/11/2020
<1.0	<1.0	<1.0	<1.5
<4.5	<0.0094	<1.0	<10
<1.0			

MW-14			6/10/2020
<1.0	<1.0	<1.0	<1.5
<4.5	<0.0094	<1.0	<10
<1.0			

E 21st St Airport Hwy
Commerce Way
Huntington Way
N Prince St
Ross St
Stratford Ln
Sheffield Dr
York Dr
Ashton St
N Lea St
Prince St
Hickory St
209
11

N
0 75 150 Feet

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.

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Distribution of Dissolved-Phase Contaminants - June 2020

Figure 5

Daniel B. Stephens & Associates, Inc.
7/14/2020 JN DB18.1157.00

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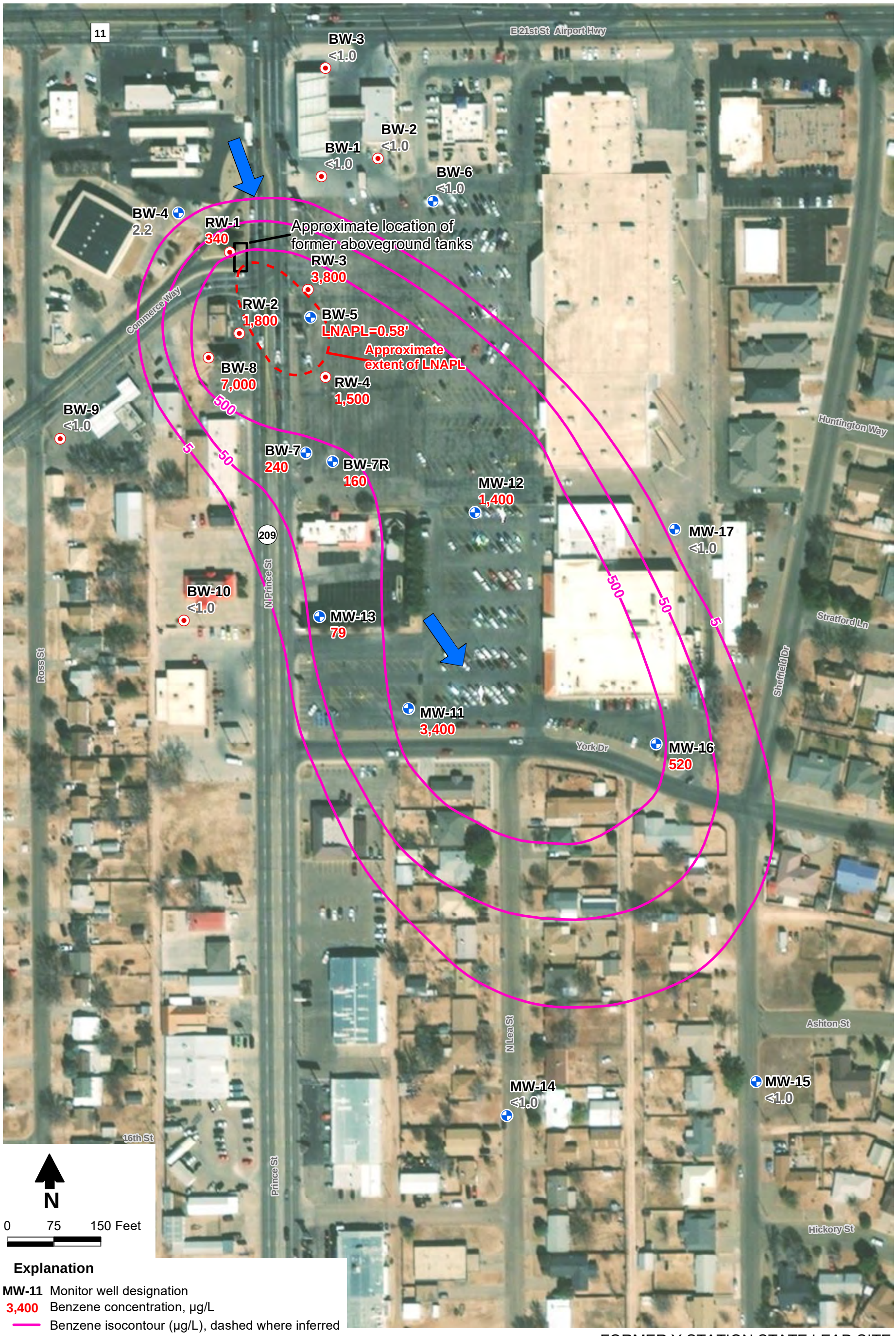

Explanation

MW-11 Monitor well designation

3,400 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.

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Benzene Isoconcentration Map
June 2020

Figure 6

Daniel B. Stephens & Associates, Inc.
7/7/2020 JN DB18.1157.00

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Explanation

MW-11 Monitor well designation

150 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

Daniel B. Stephens & Associates, Inc.

7/15/2020 JN DB18.1157.00

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

EDC Isoconcentration Map
June 2020

Figure 7

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Explanation

MW-11 Monitor well designation

2.9 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.

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

EDB Isoconcentration Map
June 2020

Figure 8

Daniel B. Stephens & Associates, Inc.
7/15/2020 JN DB18.1157.00

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Bennett Pump Sample			
BW-8			6/13/2020
7,000	7,900	700	2,500
18,100	0.72	190	180
<20			

HydraSleeve Samples			
BW-8 (Shallow)			6/13/2020
6,300	8,500	670	2,600
18,070	0.25	<20[a]	130
<20			
BW-8 (Deep)			6/13/2020
7,000	8,400	570	2,400
18,370	0.26	<10[a]	120
<10			

Bennett Pump Sample			
MW-11			6/13/2020
3,400	8.9	300	620
4,328.9	2.9	150	39
<10			

HydraSleeve Samples			
MW-11 (Shallow)			6/13/2020
3,900	<10	250	86
4,236	1.4	190	28
<10			
MW-11 (Deep)			6/13/2020
4,200	<10	370	150
4,720	2.1	190	50
<10			

Bennett Pump Sample			
MW-14			6/10/2020
<1.0	<1.0	<1.0	<1.5
<4.5	<0.0094	<1.0	<10
<1.0			

HydraSleeve Samples			
MW-14 (Shallow)			6/10/2020
<1.0	<1.0	<1.0	<1.5
<4.5	<0.0093	<1.0	<10
<1.0			
MW-14 (Deep)			6/10/2020
<1.0	<1.0	<1.0	<1.5
<4.5	<0.0094	<1.0	<10
<1.0			

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.

Figure 9

FORMER Y STATION STATE LEAD SITE
CLOVIS, NEW MEXICO

Water Quality Comparison
Bennett Pump versus HydraSleeve

Daniel B. Stephens & Associates, Inc.
7/14/2020 JN DB18.1157.00

Tables

Table 1. Summary of Soil Analytical Organic Chemistry Data
Former Y Station State Lead Site, Clovis, New Mexico

Sample ID	Date Sampled	Sample Depth (ft bgs)	Concentration [a] (mg/kg)							
			Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDC	EDB	Naphthalene
BW-7R	07/21/19	95	<0.014	<0.027	<0.027	<0.055	<0.027	<0.027	<0.027	<0.055
	07/22/19	145	<0.015	<0.030	<0.030	<0.061	<0.030	<0.030	<0.030	<0.061
	07/30/19	275	<0.017	<0.035	<0.035	<0.070	<0.035	<0.035	<0.035	<0.070
	07/31/19	330	<0.015	<0.030	<0.030	<0.059	<0.030	<0.030	<0.030	<0.059
MW-11	05/30/19	20-30	<0.018	<0.036	<0.036	<0.072	<0.036	<0.036	<0.036	<0.072
	05/31/19	110-120	<0.013	<0.026	<0.026	<0.052	<0.026	<0.026	<0.026	<0.052
	06/03/19	280-290	<0.019	<0.037	<0.037	<0.075	<0.037	<0.037	<0.037	<0.075
	06/04/19	332	0.67	<0.026	0.055	0.22	<0.026	0.031	<0.026	<0.052
MW-12	07/09/19	80-85	<0.019	<0.039	<0.039	<0.077	<0.039	<0.039	<0.039	<0.077
	07/12/19	160-165	<0.018	<0.037	<0.037	<0.073	<0.037	<0.037	<0.037	<0.073
	07/13/19	200-205	<0.019	<0.039	<0.039	<0.078	<0.039	<0.039	<0.039	<0.078
	07/16/19	325-330	0.043	<0.031	<0.031	<0.062	<0.031	<0.031	<0.031	<0.062
MW-13	08/04/19	65	<0.020	<0.040	<0.040	<0.080	<0.040	<0.040	<0.040	<0.080
	08/07/19	195	<0.015	<0.030	<0.030	<0.061	<0.030	<0.030	<0.030	<0.061
	08/08/19	295	<0.019	<0.038	<0.038	<0.077	<0.038	<0.038	<0.038	<0.077
	08/09/19	327	0.043	<0.063	<0.063	<0.13	<0.063	<0.063	<0.063	<0.13
MW-14	09/12/19	45	<0.017	<0.034	<0.034	<0.068	<0.034	<0.034	<0.034	<0.068
	09/13/19	170-175	<0.021	<0.042	<0.042	<0.084	<0.042	<0.042	<0.042	<0.084
	09/15/19	290-295	<0.017	<0.034	<0.034	<0.068	<0.034	<0.034	<0.034	<0.068
	09/15/19	320	<0.016	<0.033	<0.033	<0.065	<0.033	<0.033	<0.033	<0.065
RW-1	06/20/19	90-100	<0.016	<0.033	<0.033	<0.065	<0.033	<0.033	<0.033	<0.066
	06/21/19	190-200	<0.016	<0.033	<0.033	<0.065	<0.033	<0.033	<0.033	<0.065
	06/25/19	265-270	<0.018	<0.036	<0.036	<0.071	<0.036	<0.036	<0.036	<0.071
	06/26/19	320-330	<0.017	<0.034	<0.034	<0.068	<0.034	<0.034	<0.034	<0.068
RW-2	06/16/19	85	<0.014	<0.029	<0.029	<0.058	<0.029	<0.029	<0.029	<0.058
	06/16/19	175	<0.019	<0.038	<0.038	<0.076	<0.038	<0.038	<0.038	<0.076

Table 1. Summary of Soil Analytical Organic Chemistry Data
Former Y Station State Lead Site, Clovis, New Mexico

Sample ID	Date Sampled	Sample Depth (ft bgs)	Concentration [a] (mg/kg)							
			Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDC	EDB	Naphthalene
RW-2 (cont.)	06/17/19	235	<0.017	<0.033	<0.033	<0.066	<0.033	<0.033	<0.033	<0.066
	06/18/19	329	51	330	73	410	<0.74	0.98	1.9	21
RW-3	08/21/19	50-55	<0.018	<0.037	<0.037	<0.074	<0.037	<0.037	<0.037	<0.074
	08/21/19	120	0.027	0.32	0.074	0.43	<0.030	<0.030	<0.030	<0.060
	08/25/19	294	<0.017	0.33	0.13	0.92	<0.033	<0.033	<0.033	0.091
	08/26/19	325-330	<0.017	<0.034	<0.034	<0.068	<0.034	<0.034	<0.034	<0.068
RW-4	09/05/19	6	<0.14	<0.29	<0.29	<0.57	<0.29	<0.29	<0.29	<0.57
	09/06/19	182	<0.017	<0.035	<0.035	<0.069	<0.035	<0.035	<0.035	<0.069
	09/07/19	292	<0.019	<0.038	<0.038	<0.075	<0.038	<0.038	<0.038	<0.075
	09/08/19	330	<0.016	<0.033	<0.033	<0.066	<0.033	<0.033	<0.033	<0.066

[a] Samples analyzed in accordance with U.S. Environmental Protection Agency (EPA) method 8260B.

mg/kg = Milligrams per kilogram

MTBE = Methyl tertiary-butyl ether

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

Table 2. Well Construction Summary
Former Y Station State Lead Site, Clovis, New Mexico

Well	Well Diameter (inches) [a]	Screen Interval (feet bgs)	Depth to Water (feet btoc)	Total Depth (feet bgs)
MW-15	5	282–352.3	322.86	357.75
MW-16	5	288.61–358.88	328.75	364.32
MW-17	5	289–359	329.19	364.36

bgs = Below ground surface
btoc = Below top of casing
[a] Schedule 80 polyvinyl chloride (PVC) well material

Table 3. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation [a] (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (ft msl)
BW-1	295–345	4279.88 [c]	04/13/12	322.49	—	0.00	3957.39
			07/27/12	322.69	—	0.00	3957.19
			09/24/12	322.75	—	0.00	3957.13
		4279.55	04/29/14	325.75	—	0.00	3953.80
			05/08/15	326.60	—	0.00	3952.95
			09/10/15	326.96	—	0.00	3952.59
			03/29/16	327.12	—	0.00	3952.43
			07/26/16	327.34	—	0.00	3952.21
			07/10/18 [d]	327.93	—	0.00	3951.62
			02/14/19 [d]	328.18	—	0.00	3951.37
			03/06/19	328.11	—	0.00	3951.44
			05/02/19 [d]	328.41	—	0.00	3951.14
			05/20/19	328.20	—	0.00	3951.35
			08/13/19	328.61	—	0.00	3950.94
			09/16/19	328.85	—	0.00	3950.70
			06/08/20	328.91	—	0.00	3950.64
BW-2	287–347	4280.53 [c]	10/26/09	323.12	—	0.00	3957.41
			09/24/12	323.21	—	0.00	3957.32
		4280.23	04/29/14	326.14	—	0.00	3954.09
			05/08/15	327.00	—	0.00	3953.23
			09/10/15	327.33	—	0.00	3952.90
			03/29/16	327.52	—	0.00	3952.71
			07/26/16	327.78	—	0.00	3952.45
			07/10/18 [d]	328.38	—	0.00	3951.85
			02/14/19 [d]	328.60	—	0.00	3951.63

Table 3. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation [a] (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (ft msl)
BW-2 (cont.)	287–347	4280.23	03/06/19	328.53	—	0.00	3951.70
			05/02/19 [d]	328.97	—	0.00	3951.26
			05/20/19	328.61	—	0.00	3951.62
			08/13/19	329.03	—	0.00	3951.20
			09/17/19	328.98	—	0.00	3951.25
			06/08/20	329.34	—	0.00	3950.89
BW-3	287–347	4280.17 [c]	10/26/09	322.36	—	0.00	3957.81
			09/24/12	322.44	—	0.00	3957.73
		4279.91	04/29/14	325.38	—	0.00	3954.53
			05/08/15	326.20	—	0.00	3953.71
			09/10/15	326.56	—	0.00	3953.35
			03/29/16	326.71	—	0.00	3953.20
			07/26/16	326.94	—	0.00	3952.97
			07/10/18 [d]	327.52	—	0.00	3952.39
			02/14/19 [d]	327.76	—	0.00	3952.15
			03/06/19	327.75	—	0.00	3952.16
			05/02/19 [d]	328.00	—	0.00	3951.91
			05/20/19	327.79	—	0.00	3952.12
			08/13/19	328.19	—	0.00	3951.72
			09/16/19	328.11	—	0.00	3951.80
			06/08/20	328.49	—	0.00	3951.42
BW-4	275–345	4280.02	04/29/14	326.04	—	0.00	3953.98
			05/08/15	326.80	—	0.00	3953.22
			09/10/15	327.23	—	0.00	3952.79
			03/29/16	327.27	—	0.00	3952.75

Table 3. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation [a] (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (ft msl)
BW-4 (cont.)	275–345	4280.02	07/26/16	327.52	—	0.00	3952.50
			07/10/18 [d]	327.95	—	0.00	3952.07
			02/14/19 [d]	328.29	—	0.00	3951.73
			03/06/19	328.20	—	0.00	3951.82
			05/02/19 [d]	328.59	—	0.00	3951.43
			05/20/19	328.36	—	0.00	3951.66
			08/13/19	328.74	—	0.00	3951.28
			09/17/19	328.59	—	0.00	3951.43
			06/08/20	329.04	—	0.00	3950.98
BW-5	273.5–348.5	4278.99	04/29/14	325.53	—	0.00	3953.46
			05/08/15	326.27	—	0.00	3952.72
			09/10/15	326.73	—	0.00	3952.26
			03/29/16	326.87	—	0.00	3952.12
			07/26/16	326.98	—	0.00	3952.01
			07/10/18 [d]	327.53	—	0.00	3951.46
			02/14/19 [d]	329.46	NA	NA	NA
			03/06/19	329.28	327.36	1.92	3951.15
			05/02/19 [d]	329.70	NA	NA	NA
			05/20/19	329.35	327.58	1.77	3950.97
			08/13/19	328.89	328.20	0.69	3950.62
			09/20/19	328.94	328.18	0.76	3950.62
			06/08/20	329.65	329.07	0.58	3949.78
BW-6	275–345	4280.24	04/29/14	326.46	—	0.00	3953.78
			05/08/15	327.27	—	0.00	3952.97
			09/10/15	327.60	—	0.00	3952.64

Table 3. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation [a] (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (ft msl)
BW-6 (cont.)	275–345	4280.24	03/29/16	327.70	—	0.00	3952.54
			07/26/16	328.08	—	0.00	3952.16
			07/10/18 [d]	328.72	—	0.00	3951.52
			02/14/19 [d]	328.91	—	0.00	3951.33
			03/06/19	328.82	—	0.00	3951.42
			05/02/19 [d]	329.23	—	0.00	3951.01
			05/20/19	328.91	—	0.00	3951.33
			08/13/19	329.35	—	0.00	3950.89
			09/16/19	329.18	—	0.00	3951.06
			06/08/20	329.70	—	0.00	3950.54
BW-7	284–349	4277.47	04/29/14	324.63	—	0.00	3952.84
			05/08/15	325.42	—	0.00	3952.05
			09/10/15	325.84	—	0.00	3951.63
			03/29/16	326.01	—	0.00	3951.46
			07/26/16	326.14	—	0.00	3951.33
			03/06/19	326.88	—	0.00	3950.59
			05/20/19	327.11	—	0.00	3950.36
			08/13/19	327.47	—	0.00	3950.00
			09/18/19	327.39	—	0.00	3950.08
			06/08/20	327.83	—	0.00	3949.64
BW-7R	286.79-357.07	4277.44	08/13/19	327.33	—	0.00	3950.11
			09/21/19	327.80	—	0.00	3949.64
			06/08/20	327.83	—	0.00	3949.61
BW-8	287–347	4278.74	03/29/16	326.61	—	0.00	3952.13
			07/26/16	326.75	—	0.00	3951.99

Table 3. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation [a] (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (ft msl)
BW-8 (cont.)	287–347	4278.74	07/10/18 [d]	327.33	—	0.00	3951.41
			02/14/19 [d]	327.73	—	0.00	3951.01
			03/06/19	327.55	—	0.00	3951.19
			05/20/19	327.72	—	0.00	3951.02
			08/13/19	328.10	—	0.00	3950.64
			09/18/19	327.99	—	0.00	3950.75
			06/08/20	328.34	—	0.00	3950.40
BW-9	287–347	4278.31	03/29/16	326.30	—	0.00	3952.01
			07/26/16	326.60	—	0.00	3951.71
			03/06/19	327.33	—	0.00	3950.98
			05/02/19 [d]	327.67	—	0.00	3950.64
			05/20/19	327.44	—	0.00	3950.87
			08/13/19	327.81	—	0.00	3950.50
			09/17/19	327.74	—	0.00	3950.57
			06/08/20	328.11	—	0.00	3950.20
BW-10	306–346	4275.11	03/29/16	323.92	—	0.00	3951.19
			07/26/16	324.21	—	0.00	3950.90
			03/06/19	324.96	—	0.00	3950.15
			05/20/19	324.99	—	0.00	3950.12
			08/13/19	325.44	—	0.00	3949.67
			09/17/19	325.30	—	0.00	3949.81
			06/08/20	325.77	—	0.00	3949.34
MW-11	285.5–355.5	4274.64	08/13/19	325.81	—	0.00	3948.83
			09/18/19	325.85	—	0.00	3948.79
			06/08/20	326.24	—	0.00	3948.40

Table 3. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Screened Interval (ft bgs)	Top of Casing Elevation [a] (ft msl)	Date Measured	Depth to Water (ft btoc)	Depth to LNAPL (ft btoc)	LNAPL Thickness (feet)	Groundwater Elevation [b] (ft msl)
MW-12	287–357	4277.60	08/13/19	328.16	—	0.00	3949.44
			09/20/19	328.14	—	0.00	3949.46
			06/08/20	328.60	—	0.00	3949.00
MW-13	287–357	4275.82	08/13/19	326.33	—	0.00	3949.49
			09/21/19	326.44	—	0.00	3949.38
			06/08/20	326.77	—	0.00	3949.05
MW-14	280.5–350.73	4265.25	09/19/19	318.03	—	0.00	3947.22
			06/08/20	318.52	—	0.00	3946.73
MW-15	282–352.3	4268.58 [e]	06/08/20	322.86	—	0.00	3945.72
MW-16	288.61–358.88	4276.23 [e]	06/08/20	328.75	—	0.00	3947.48
MW-17	289–359	4277.42 [e]	06/08/20	329.19	—	0.00	3948.23
RW-1	265–355	4280.00	08/13/19	328.89	—	0.00	3951.11
			09/19/19	328.84	—	0.00	3951.16
			06/08/20	329.22	—	0.00	3950.78
RW-2	290–360	4279.70	08/13/19	329.00	—	0.00	3950.70
			09/18/19	328.97	—	0.00	3950.73
			06/08/20	329.28	—	0.00	3950.42
RW-3	289.27–364.52	4278.78	09/20/19	327.95	—	0.00	3950.83
			06/08/20	328.25	—	0.00	3950.53
RW-4	291.15–361.51	4278.84	09/19/19	328.48	—	0.00	3950.36
			06/08/20	328.85	—	0.00	3949.99

Footnotes and acronym definitions are provided on the next page.

Table 3. Summary of Fluid Level Measurements
Former Y Station State Lead Site, Clovis, New Mexico

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

[a] Surveyed by Lydick Engineers & Surveyors, October 2019. For consistency, historical groundwater elevations reference current survey data.

[b] Groundwater elevation (GWE) corrected for LNAPL thickness using the following equation: GWE = TOC Elevation - (DTW - [LNAPL thickness x 0.75]).

[c] Well survey data reported by BEI following well installation.

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

[e] Surveyed by Lydick Engineers & Surveyors, June 2020.

ft bgs = Feet below ground surface
ft msl = Feet above mean sea level
ft btoc = Feet below top of casing
DTW = Depth to water
LNAPL = Light nonaqueous-phase liquid
NA = Not measured or not available

Table 4. Summary of LNAPL Recovery From Site Wells
Former Y Station State Lead Site, Clovis, New Mexico

Date Bailed	Depth to Water [a] (ft btoc)	Depth to LNAPL (ft btoc)	Initial LNAPL Thickness (feet)	Depth to Water [b] (ft btoc)	Total Volume of Fluids Removed (gallons)	Volume of LNAPL Removed (gallons)	Cumulative Volume of LNAPL Removed (gallons)	Final Thickness of LNAPL (feet)
Cumulative volume of LNAPL recovered by DBS&A is approximately 3.4 gallons, as tabulated below.								
BW-5								
5/23/2019	329.35	327.58	1.77	328.02	7.16	1.95	1.95	0.26
9/20/2019	328.94	328.18	0.76	328.37	5.35	0.95	2.90	0.01
6/8/2020	329.65	329.07	0.58	329.22	4.27	0.46	3.36	0.00

[a] Depth to water (DTW) before correction for LNAPL thickness.

[b] DTW corrected for LNAPL thickness using the following equation:
DTW = DTW - (LNAPL thickness x 0.75).

LNAPL = Nonaqueous-phase liquid
ft btoc = Feet below top of casing

Table 5. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-1	04/13/12	**240**	61	4.5	20	325.5	1.6	<1.0 [b]	3.5	<10
	09/25/12	**290**	29	4.9	34	357.9	<1.0	<1.0 [b]	**5.2**	<10
	09/25/12 [c]	**200**	46	7.8	45	298.8	<1.0	<1.0 [b]	**6.2**	<10
	04/30/14	**50**	6.0	<1.0	1.6	57.6	<1.0	<1.0 [b]	1.4	<10
	05/07/15	**130**	5.5	<1.0	5.6	141.1	1.1	<1.0 [b]	2.6	<10
	09/11/15	**13**	55	<1.0	<1.5	68	<1.0	<1.0 [b]	<1.0	<10
	03/30/16	**40**	130	<1.0	<1.5	170	<1.0	<1.0 [b]	1.3	<10
	07/27/16	**18**	15	<1.0	<1.5	33	1.2	<1.0 [b]	1.9	<10
	07/10/18	<1.0	2.9	<1.0	<1.5	2.9	<1.0	<1.0 [b]	<1.0	<10
	07/10/18 [c]	<1.0	2.9	<1.0	<1.5	2.9	<1.0	<1.0 [b]	<1.0	<10
	02/15/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	02/15/19 [c]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	05/03/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 [b]	<1.0	<10
	05/03/19 [c]	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 [b]	<1.0	<10
	05/22/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	09/16/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	06/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
BW-2	09/25/12	**21**	15	<1.0	6.2	42.2	<1.0	<1.0 [b]	1.0	<10
	04/29/14	<1.0	5.6	<1.0	<1.5	5.6	<1.0	<1.0 [b]	<1.0	<10
	05/07/15	<1.0	18	<1.0	<1.5	18	<1.0	<1.0 [b]	<1.0	<10
	09/10/15	**7.2**	21	<1.0	<1.5	28.2	<1.0	<1.0 [b]	<1.0	<10
	03/29/16	<1.0	97	<1.0	<1.5	97	<1.0	<1.0 [b]	<1.0	<10
	07/26/16	<1.0	2.5	<1.0	<1.5	2.5	<1.0	<1.0 [b]	<1.0	<10
	07/10/18	<1.0	1.7	<1.0	<1.5	1.7	<1.0	<1.0 [b]	<1.0	<10
	02/14/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10

Table 5. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-2 (cont.)	05/02/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 [b]	<1.0	<10
	05/21/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
	09/17/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0092 [d]	<1.0	<10
	06/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
BW-3	09/25/12	1.4	56	<1.0	6.1	63.5	<1.0	<1.0 [b]	<1.0	<10
	04/29/14	<1.0	14	<1.0	<1.5	14	<1.0	<1.0 [b]	<1.0	<10
	05/07/15	2.6	5.0	<1.0	3.5	11.1	<1.0	<1.0 [b]	<1.0	<10
	09/10/15	<1.0	46	<1.0	<1.5	46	<1.0	<1.0 [b]	<1.0	<10
	03/29/16	<1.0	180	<1.0	2.2	182.2	<1.0	<1.0 [b]	<1.0	<10
	07/26/16	<1.0	4.0	<1.0	<1.5	4.0	<1.0	<1.0 [b]	<1.0	<10
	07/10/18	<1.0	4.3	<1.0	<1.5	4.3	<1.0	<1.0 [b]	<1.0	<10
	02/15/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	05/03/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 [b]	<1.0	<10
	05/21/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	09/16/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	06/09/20	<1.0	1.2	<1.0	<1.5	1.2	<1.0	<0.0094 [d]	<1.0	<10
BW-4	04/30/14	<1.0	11	<1.0	<1.5	11	<1.0	<1.0 [b]	1.8	<10
	05/07/15	**1,100**	**1,100**	61	600	2,861	<1.0	<1.0 [b]	**32**	<10
	09/10/15	1.9	43	<1.0	<1.5	44.9	<1.0	<1.0 [b]	<1.0	<10
	03/30/16	**200**	200	5.1	33	438.1	<1.0	<1.0 [b]	**6.9**	<10
	07/27/16	**140**	85	1.2	15	241.2	<1.0	<1.0 [b]	**6.9**	<10
	05/22/19	1.8	<1.0	<1.0	<1.5	1.8	<1.0	<0.0094 [d]	2.1	<10
	09/17/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0092 [d]	<1.0	<10
	06/10/20	2.2	<1.0	<1.0	<1.5	2.2	<1.0	<0.0093 [d]	**5**	<10
BW-5	04/29/14	**2,100**	**1,800**	200	**990**	5,090	<1.0	**29**	**100**	**59.9**

Table 5. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-5 (cont.)	05/08/15	**3,700**	**2,800**	300	**1,700**	8,500	<5.0	**51**	**180**	**83**
	09/11/15	**2,000**	**1,400**	220	**900**	4,520	<5.0	**18**	**100**	**80**
	09/11/15 [c]	**1,900**	**1,300**	230	**960**	4,390	<5.0	**20**	**100**	**64**
	03/30/16	**5,000**	**4,200**	500	**2,000**	11,700	<5.0	**54**	**230**	<500 [b]
	07/28/16	**2,000**	**2,400**	270	**1,300**	5,970	<10	**29**	**110**	**141**
	05/20/19 through 06/09/20	Well not sampled due to presence of LNAPL								
BW-6	04/29/14	<1.0	10	<1.0	<1.5	10	<1.0	<1.0 [b]	<1.0	<10
	05/07/15	<1.0	8.4	<1.0	<1.5	8.4	<1.0	<1.0 [b]	<1.0	<10
	09/10/15	<1.0	36	<1.0	<1.5	36	<1.0	<1.0 [b]	<1.0	<10
	03/29/16	<1.0	130	<1.0	<1.5	130	<1.0	<1.0 [b]	<1.0	<10
	07/26/16	<1.0	3.8	<1.0	<1.5	3.8	<1.0	<1.0 [b]	<1.0	<10
	07/11/18	<1.0	10	<1.0	<1.5	10	<1.0	<1.0 [b]	<1.0	<10
	02/15/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
	05/02/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0 [b]	<1.0	<10
	05/21/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	09/16/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	06/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0095 [d]	<1.0	<10
BW-7	04/30/14	**990**	3.4	67	260	1,320	<1.0	**2.6**	**75**	21.1
	04/30/14 [c]	**1,100**	4.4	74	300	1,478	<1.0	**2.9**	**75**	20.1
	05/08/15	**3,200**	**1,200**	210	**920**	5,530	<1.0	**9.6**	**230**	**45.5**
	09/11/15	**9,400**	**5,000**	**750**	**2,600**	17,750	<1.0	**36**	**590**	**204**
	03/31/16	**8,800**	**2,900**	650	**2,100**	14,450	<1.0	<50 [b]	**580**	**120**
	07/28/16	**8,000**	**1,100**	630	**1,200**	10,930	<50	<50 [b]	**500**	**120**

Table 5. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
BW-7 (cont.)	05/22/19	**1,400**	140	100	230	1,870	<5.0	**0.24**	**180**	22
	09/18/19	**590**	5.3	56	88	739.3	<2.0	**0.31** [d]	**120**	15
	06/12/20	**240**	<2.0	<2.0	<3.0	240	<2.0	**0.86** [d]	**65**	<20
BW-7R	09/21/19	**51**	9.4	1.5	9.2	71.1	<1.0	**0.096** [d]	**22**	<10
	06/11/20	**160**	2.5	7.1	13	182.6	<1.0	**0.36** [d]	**50**	4.1
BW-8	03/31/16	**3,900**	**5,400**	440	**2,400**	12,140	<1.0	**95**	**210**	<500 [b]
	03/31/16 [c]	**4,300**	**5,900**	500	**2,700**	13,400	<1.0	**110**	**230**	**100**
	07/28/16	**3,600**	**4,800**	380	**2,500**	11,280	<50	**100**	**180**	**120**
	07/28/16 [c]	**3,400**	**4,700**	380	**2,500**	10,980	<50	**100**	**180**	**120**
	05/30/19	**4,600**	**4,200**	390	**1,200**	10,390	<5.0	**9.1** [d]	**290**	**67**
	09/18/19	**5,000**	**4,300**	420	**1,400**	11,120	<10	**14** [d]	**270**	**94**
	06/13/20	**7,000**	**7,900**	**700**	**2,500**	18,100	<20	**0.72** [d]	**190**	**180**
BW-8 (Deep HS)	06/13/20	**7,000**	**8,400**	570	**2,400**	18,370	<10	**0.26** [d]	<10 [b]	**120**
BW-8 (Shallow HS)	06/13/20	**6,300**	**8,500**	670	**2,600**	18,070	<20	**0.25** [d]	<20 [b]	**130**
BW-9	03/30/16	<1.0	190	<1.0	<1.5	190	<1.0	<1.0 [b]	<1.0	<10
	07/27/16	<1.0	6.1	<1.0	<1.5	6.1	<1.0	<1.0 [b]	<1.0	<10
	05/21/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	09/17/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	06/09/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
BW-10	03/29/16	<1.0	280	<1.0	<1.5	280	<1.0	<1.0 [b]	<1.0	<10
	07/27/16	<1.0	33	<1.0	<1.5	33	<1.0	<1.0 [b]	<1.0	<10
	05/21/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
	09/17/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
	06/10/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
MW-11	09/18/19	**3,300**	5.0	280	**1,100**	4,685	<5.0	**5.0** [d]	**130**	**40**

Table 5. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico

Well Name	Date Sampled	Concentration [a] (µg/L)								
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	MTBE	EDB	EDC	Total Naphthalenes
NMWQCC Standard		*5*	*1,000*	*700*	*620*	*None*	*100*	*0.05*	*5*	*30*
MW-11 (cont.)	06/13/20	**3,400**	8.9	300	**620**	4,328.9	<10	**2.9** [d]	**150**	**39**
MW-11 (Deep HS)	06/13/20	**4,200**	<10	370	150	4,720	<10	**2.1** [d]	**190**	**50**
MW-11 (Shallow HS)	06/13/20	**3,900**	<10	250	86	4,236	<10	**1.4** [d]	**190**	28
MW-12	09/20/19	**1,400**	27	9.4	200	1,636.4	<1.0	**0.78** [d]	**72**	6.0
	06/12/20	**1,400**	<10	10	130	1,540	<10	**0.50** [d]	**85**	<100 [b]
MW-13	09/21/19	**97**	6.4	9.2	29	141.6	<1.0	0.037 [d]	**5.1**	<10
	06/12/20	**79**	<2.0	4.4	13	96.4	<2.0	0.035 [d]	**6.6**	<20
MW-14	09/19/19	4.0	15	2.8	15	36.8	<1.0	**0.050** [d]	<1.0	<10
	06/10/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
MW-14 (Deep HS)	06/10/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
MW-14 (Shallow HS)	06/10/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0093 [d]	<1.0	<10
MW-15	06/11/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
MW-16	06/11/20	**520**	8.7	42	140	710.7	<1.0	**0.82** [d]	**35**	3.2
MW-17	06/11/20	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<0.0094 [d]	<1.0	<10
RW-1	09/19/19	**720**	800	47	430	1,997	<1.0	**6.4** [d]	**36**	10
	06/13/20	**340**	39	18	51	448	<5.0	**0.22** [d]	<5.0 [b]	10
RW-2	09/18/19	**3,500**	**3,300**	210	**1,600**	8,610	<10	**74** [d]	**220**	**58**
	06/14/20	**1,800**	**1,100**	130	470	3,500	<20	**4.8** [d]	<20 [b]	<200 [b]
RW-3	09/20/19	**4,100**	**5,100**	310	**2,300**	11,810	<10	**25** [d]	**130**	**58**
	06/13/20	**3,800**	**2,300**	290	**2,100**	8,490	<20	**49** [d]	**180**	**76**
RW-4	09/19/19	**690**	730	47	340	1,807	<1.0	**5.2** [d]	**28**	5.4
	06/12/20	**1,500**	410	110	360	2,380	<5.0	**13** [d]	**100**	20

Footnotes and acronym definitions are provided on the next page.

Table 5. Summary of Analytical Organic Chemistry Data for Groundwater
Former Y Station State Lead Site, Clovis, New Mexico

Bold indicates values that are equal to or exceed applicable standards.

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

[a] Samples analyzed in accordance with EPA method 8260B, unless otherwise noted.

[b] Laboratory reporting limit is equal or greater than the NMWQCC standard.

[c] Duplicate sample

[d] Samples analyzed in accordance with EPA method 504.1.

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
NMWQCC = New Mexico Water Quality Control Commission
LNAPL = Light nonaqueous-phase liquid
HS = HydraSleeve sampling device

Appendix A

OSE Well Permits

File No. CC-2548

NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable box):

For fees, see State Engineer website: http://www.ose.state.nm.us/

Purpose:	☐ Pollution Control And/Or Recovery	☐ Ground Source Heat Pump
☐ Exploratory Well (Pump test)	☐ Construction Site/Public Works Dewatering	☐ Other(Describe):
☒ Monitoring Well	☐ Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

☒ Temporary Request - Requested Start Date: 5/14/2020 Requested End Date: Unknown

Plugging Plan of Operations Submitted? ☐ Yes ☒ No

---

1. APPLICANT(S)

Name: NMED Petroleum Tank Storage Bureau	Name: Daniel B. Stephens & Associates, Inc.
Contact or Agent: check here if Agent ☐ Renee Romero	Contact or Agent: check here if Agent ☒ Thomas Golden
Mailing Address: 1914 West 2nd Street	Mailing Address: 6020 Academy Rd. NE, Suite 100
City: Roswell	City: Albuquerque
State: NM Zip Code: 88201	State: NM Zip Code: 87109
Phone: (575) 624-6046 ☐ Home ☐ Cell Phone (Work):	Phone: 505-822-9400 ☐ Home ☐ Cell Phone (Work):
E-mail (optional):	E-mail (optional): tgolden@geo-logic.com

OSE DII MAR 23 2020 PM2:52

FOR OSE INTERNAL USE Application for Permit, Form WR-07, Rev 11/17/16

File No.: CC-2548	Trn. No.: 670894	Receipt No.: 2-4185 1
Trans Description (optional): CC-2548-POD2-4		
Sub-Basin: CU	PCW/LOG Due Date: 4/7/21	

2. **WELL(S)** Describe the well(s) applicable this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

☐ NM State Plane (NAD83) (Feet)
☐ NM West Zone
☐ NM East Zone
☐ NM Central Zone

☐ UTM (NAD83) (Meters)
☐ Zone 12N
☐ Zone 13N

■ Lat/Long (WGS84) (to the nearest 1/10th of second)

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (*Quarters or Halves , Section, Township, Range)* OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
CC-02548-POD2 MW-15	103° 11' 38.457"	34° 24' 52.805"	NE/4 SW/4 NW/4 ~~S 1/2, W 1/2~~, NW 1/4 Sec 8, T2N R36E
CC-02548-POD3 MW-16	103° 11' 40.060"	34° 24' 58.150"	SW/4 NW/4 NW/4 ~~N 1/2, W 1/2, NW~~ 1/4 Sec 8, T2N R36E
CC-02548-POD4 MW-17	103° 11' 40.033"	34° 25' 1.536"	SW/4 NW/4 NW/4 ~~N 1/2, W 1/2, NW 1/4~~ Sec 8, T2N R36E

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: ☐ **Yes** ■ **No** **If yes, how many**_____

Other description relating well to common landmarks, streets, or other:
Two wells west of Sheffield Dr. and north of York Dr. (in the shopping center parking lot). One well in the northbound lane of Sheffield Dr., south of Ashton St. (see attached figure).

Well is on land owned by: Sam Snell, Clovis Grocery Owners LLC, and City of Clovis ROW

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? ☐ **Yes** ■ **No**
If yes, how many_____

Approximate depth of well (feet): 360-365 (see attached table)	Outside diameter of well casing (inches): 5
Driller Name: Yellow Jacket Drilling	Driller License Number: WD-1458

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Daniel B. Stephens & Associates, Inc. has been contracted by the New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (PSTB) to investigate and remediate a petroleum hydrocarbon release at the Former Y Station State Lead Site in Clovis, NM. The investigation will be conducted to determine the horizontal and vertical extent of light non-aqueous phase liquid (LNAPL) and dissolved-phase contamination at the site. The duration of the monitoring is unknown.

OSE DII MAR 23 2020 PM2:52

FOR OSE INTERNAL USE — Application for Permit, Form WR-07

File No.: CC-2548	Trn No.: 670894

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory: ☐ Include a description of any proposed pump test, if applicable.	**Pollution Control and/or Recovery:** ☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge.	**Construction De-Watering:** ☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	**Mine De-Watering:** ☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect
Monitoring: ■ Include the reason for the monitoring well, and, ■ The duration of the planned monitoring.	☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	**Ground Source Heat Pump:** ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Thomas Golden on behalf of the NMED PSTB
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

☑ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 7th day of April 20 20, for the State Engineer,

John R. D'Antonio Jr., P.E., State Engineer

By: Signature

Juan Hernande
Print

Title: Water Resources Manager I
Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: CC-2548	Trn No.: 670894

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

17-1A Depth of the well shall not exceed the thickness of the valley fill.

17-4 No water shall be appropriated and beneficially used under this permit.

17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

Trn Desc: CC 02548 POD2=4

File Number: CC 02548
Trn Number: 670894

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion CC 02548 POD4 must be completed and the Well Log filed on or before 04/07/2021.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 03/23/2020	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness ~~my~~ hand and seal this 07 day of Apr A.D., 2020

John R. D Antonio, Jr., P.E., State Engineer

By: _____
JUAN HERNANDEZ

Trn Desc: CC 02548 POD2=4

File Number: CC 02548
Trn Number: 670894

Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 665974.823

Northing 3809613.005

State Plane - NAD 83 (f) - Zone E

Easting 884956.373

Northing 1244216.715

Degrees Minutes Seconds

Latitude 34 : 24 : 52.800000

Longitude -103 : 11 : 38.457000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:4,514

ft

0 90 180 360

N

A. DENNIS 4/7/2020

Spatial Information

County: Curry

Groundwater Basin: Curry County

Abstract Area:CU

Land Grant:
Not in Land Grant

Restrictions:

Curry-Portales Underground Water Basins

PLSS Description

SWNESWNW Qtr of Sec 08 of 002N 036E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum:

Parcel Owner:

Address:

Legal:

POD Information

Owner: NMED PETROLEUM TANK

File Number: CC-22548 POD2

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON

◆ Coord Search Location

WRAB Abstract Project Areas

Curry County Parcels 2018

Hydro Survey Boundary

<all other values>

None

All

Partial

Hydro Survey Footprints

Sections

Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 665930.959

Northing 3809777.093

State Plane - NAD 83 (f) - Zone E

Easting 884815.995

Northing 1244756.054

Degrees Minutes Seconds

Latitude 34 : 24 : 58.150000

Longitude -103 : 11 : 40.060000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:4,514

ft

0 90 180 360

N

A. DENNIS 4/7/2020

Office of the State Engineer

Interstate Stream Commission

Spatial Information

County: Curry

Groundwater Basin: Curry County

Abstract Area:CU

Land Grant:
Not in Land Grant

Restrictions:

Curry-Portales Underground Water Basins

PLSS Description

SESWNWNW Qtr of Sec 08 of 002N 036E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum: 1212011035432

Parcel Owner: COLE AB CLOVIS NM LLC

Address: 1905 PRINCE

Legal: SECTION-08 TOWNSHIP-02N RANGE-36E TR NW4 BEG 772'S & 715'E NW COR NW4; 448'S 691.35'W; 158'N; 296.1'E; 110.2'N; 321'E; 89.8'N; 57.9'E POB

POD Information

Owner: NMED PETROLEUM TANK

File Number: CC-22548 POD3

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON

◆ Coord Search Location

WRAB Abstract Project Areas

☐ Curry County Parcels 2018

Hydro Survey Boundary

☐ <all other values>

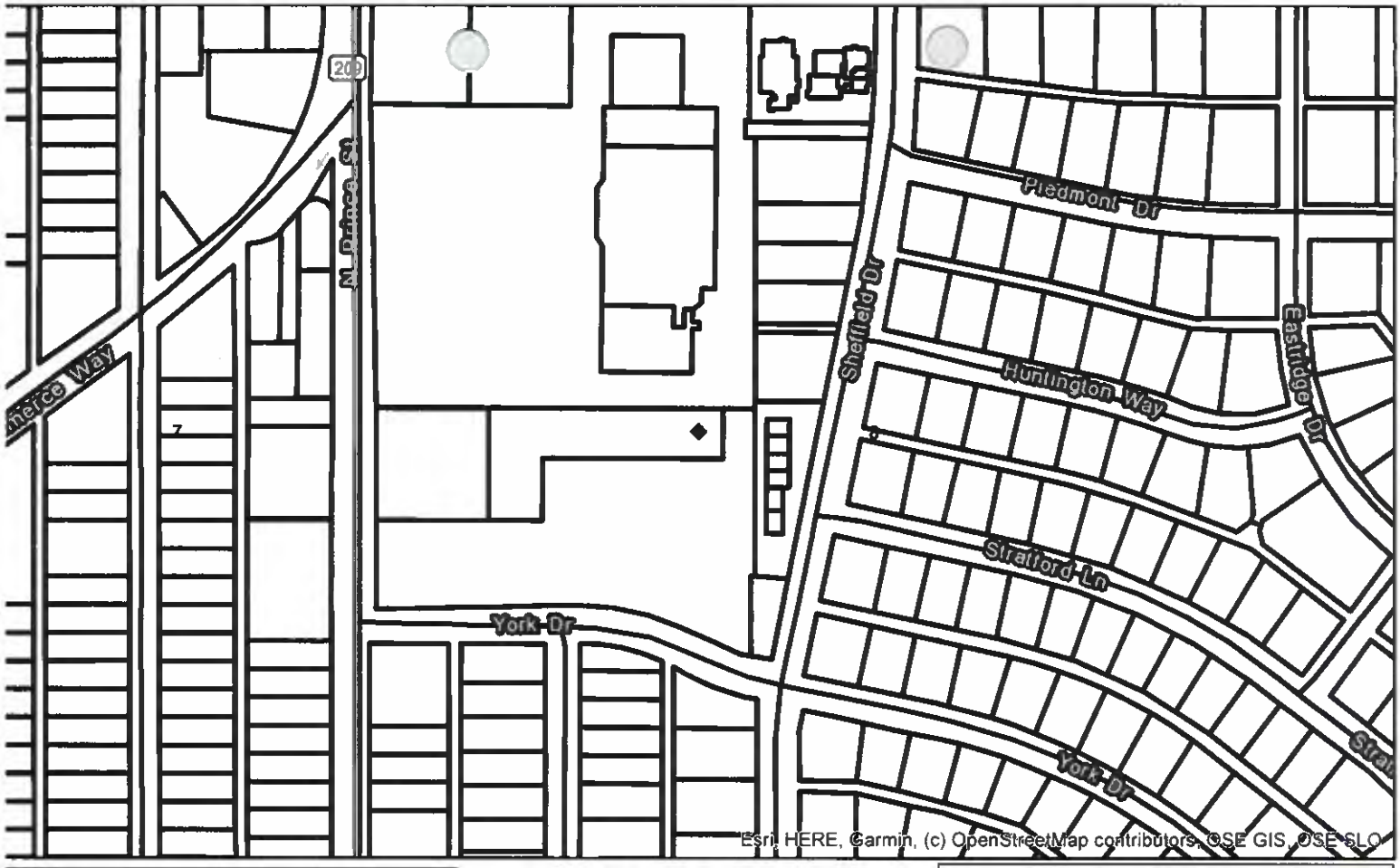
☐ None

☐ All

Partial

☐ Hydro Survey Footprints

☐ Sections



Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 665929.867

Northing 3809881.420

State Plane - NAD 83 (f) - Zone E

Easting 884814.662

Northing 1245098.384

Degrees Minutes Seconds

Latitude 34 : 25 : 1.536000

Longitude -103 : 11 : 40.030000

Location pulled from Coordinate Search

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:4,514

ft

0 90 180 360

N

A. DENNIS 4/7/2020

Spatial Information

County: Curry

Groundwater Basin: Curry County

Abstract Area:CU

Land Grant:
Not in Land Grant

Restrictions:

Curry-Portales Underground Water Basins

PLSS Description

NESWNWNW Qtr of Sec 08 of 002N 036E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information

UPC/DocNum: 1212011209440

Parcel Owner: SNELL SAM

Address: 1913 PRINCE

Legal: SECTION 08 TOWNSHIP-02N RANGE 36E TR NW4 BEG @ PT 772'S & 240'E NW COR NW4; 417.1'E; 89.8'S; 321'W; 110.2'S; 96.1'W; 200'N POB

POD Information

Owner: NMED PETROLEUM TANK

File Number: CC-22548 POD4

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose: MON

◆ Coord Search Location

WRAB Abstract Project Areas

Curry County Parcels 2018

Hydro Survey Boundary

<all other values>

None

All

Partial

Hydro Survey Footprints

Sections

Appendix B

Field Notes

Well Installation

9/18/19 MW-14 PNF

0630 PNF & YJD onsite

Tailgate Safety meeting.

0915 Completion done @ MW-14.

1030 PNF offsite; water meter returned.

YJD will load up equipment tomorrow

Johnny to oversee.

PNF 9/18/19

HB 5/13/

1545 HB onsite

Retrieved hydrant meter

Scoping out drilling location

Matchacs truck onsite

Weather: 90°F, partly cloudy

1740 YJD onsite - unloading equipment

1800 HB offsite - YJD still offloading

2000 HB onsite - YJD offsite - site secure - alley not obstructed

offsite

HB 5/13/20

5/14/20 MW-17 HB

0645 HB, YSD onsite
Weather: 55°F, clear
H:S meeting

0700 Setting up on MW-17 such that trucks can get through

0900 Roll off being delivered

0950 Cutting through asphalt

1000 Cleaning the first 5'
Calibrate PID
zero gas = 0.0 ppm
100 ppm gas = 100.0 ppm
Resume setting up rodrill

1440 Begin drilling

1750 @ 100' bgs
Begin cleaning & securing site for overnight

1815 offsite

HB 5/14/20

HB MW-17 5/15/20

0650 HB: YSD onsite
Weather: 56°F, partly cloudy
H:S meeting

0715 Minor rig repair

0900 Resume drilling

1140 New Roll off bin delivered
YSD getting more casing

1225 Resume drilling

1800 Site secure for overnight
HB: YSD offsite - @ 200' bgs

HB 5/15/20

5/16/20 MW-17 [initials]

0700 onsite
Weather: 57°F, clear
H&S meeting
0720 Resume drilling
0905 MW-12 DTW: 329.2' bgs
0920 Fencing onsite - setting up a 42'x42' area - confirmed w/ Albertsons prior
0940 Checked w/ driller - making fenced area ~60'x40'
1032 Reached wet sediment @ ~340'
1145 attempted to gauge water - unable - will continue drilling
1200 YJD lunch
1230 Resume drilling
1335 J.F. onsite
1405 @ 370'. Will clean out the hole & load w/ water because sand is heaving into the casing.
1425 Called Gandy-Marley for new roll-off bin. They will deliver tomorrow afternoon.
1426 Begin tripping out drill pipe
1510 Drill pipe is out. Hole was loaded w/ 300-400 gallons water.

5/16/2020 J. Fisher

1520 Prepping for well construction. Will set the well w/ screen from 289'-359' + 5' sump @ 364'. See pipe tally for details.
1630 Begin tripping in well pipe
1740 Well pipe is in to ~364.36'.
1746 Begin installing 12/20 silica sand
1808 12 - 50 lb bags down hole.
1915 33 bags down hole. Shoe @ 350'. Sand @ 350'.
1930 Offsite.

[signature] 5/16/2020

5/17/2020 J. Fisher

0700 ONSITE. WEATHER IS COOL (~62°F), CLOUDY, CALM. HOLD TAILGATE SAFETY MEETING.

0715 PREPARE TO RESUME WELL CONSTRUCTION.

0740 TAG SAND @ 346'. RESUME FILTER PACK INSTALLATION

1100 SAND @ 276'. PREPARE TO SWAB.

1125 BEGIN SWABBING.

1205 SAND SETTLED ~1 FT. TAGGED @ 277'. PREPARE TO INSTALL BENTONITE PLUG.

1254 BENTONITE @ 272' AFTER 8-50LB BAGS

1315 HYDRATE BENTONITE. PREPARE TO GROUT.

1 BATCH:
- 170 GALLONS WATER
- 6-50LB BAGS

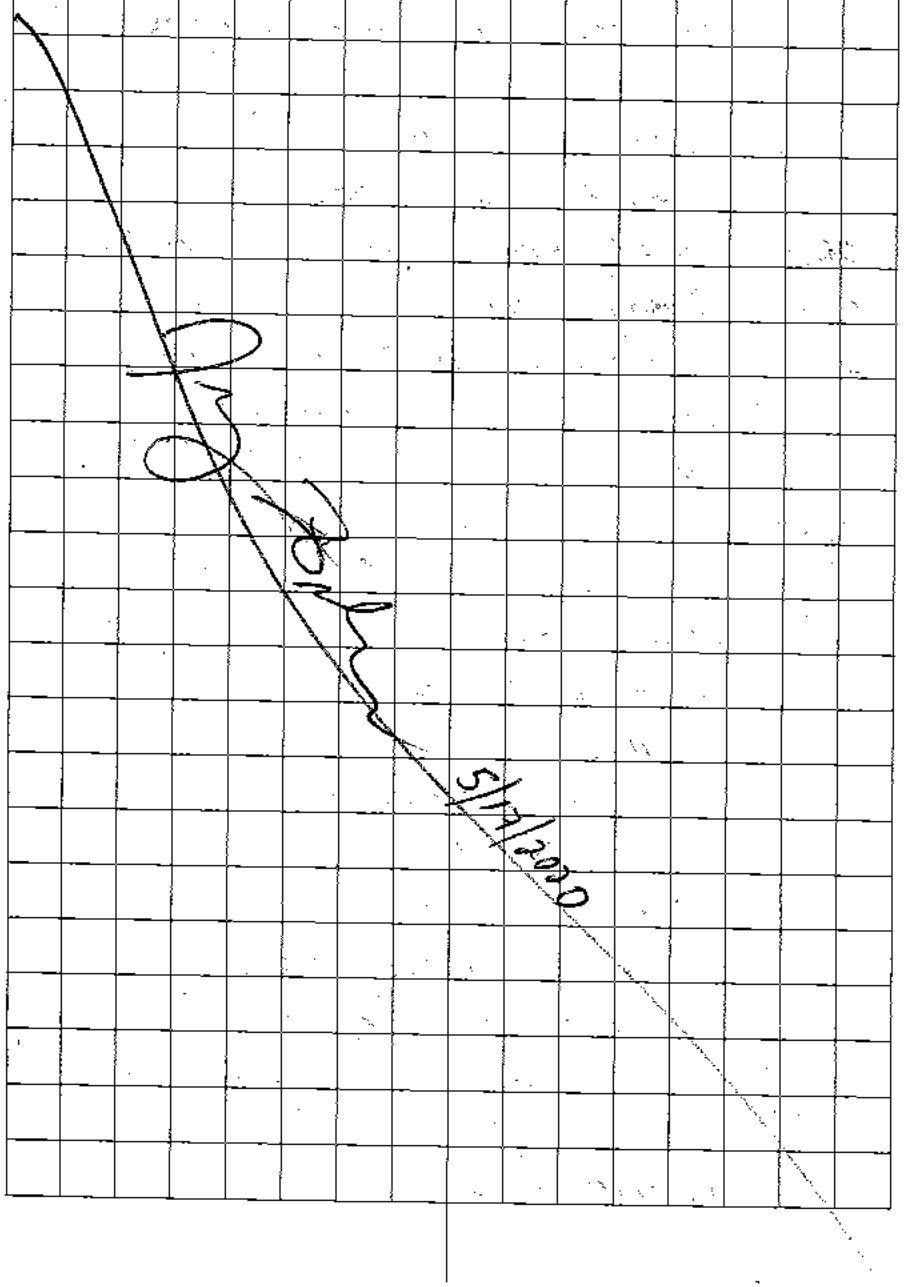
CEMENT GROUT:
- 170 GALLONS WATER
- 25-50LB BAGS PORTLAND
- 1-50LB BAG QUIKRETE

1840 CASING IS OUT OF THE HOLE. GROUT IS @ ~30' bgs. AFTER

5/17/2020 P

1840 CONT ~4 BATCHES (~750 GALLONS). WILL TAG BENTONITE IN THE AM.

1915 OFFSITE



5/18/2020 — S. Fisher

0700 ONSITE. WEATHER IS COOL (66°F), SUNNY, CALM. FORECAST IS FOR HOT (103°F) & SUNNY. HOLD TAILGATE SAFETY MEETING. & PREPARE TO FINISH GROUTING

0730 TAG GROUT @ 70' bgs.

0755 DTW = ~330' bgs.

0800 RUN DUMMY TOOL DOWN HOLE.

0825 DUMMY TOOL WENT ALL THE WAY TO THE BOTTOM OF THE WELL W/ NO RESISTANCE.

0830 BEGIN MIXING CEMENT GROUT.

0921 GROUT IS STILL @ 40' AFTER 2 BATCHES OF CEMENT GROUT. WILL INSTALL SOME HOLEPLUG & ALLOW CEMENT GROUT TO SET UP.

0935 INSTALLED 13 BAGS OF HOLEPLUG. TAGGED @ 106'. HYDRATE BENTONITE.

1040 RESUME MIXING BENTONITE GROUT.

1055 TAGGED GROUT @ ~25'. WILL WAIT AN HOUR & TAG AGAIN. 200 GALLONS

1150 TAGGED GROUT @ ~25'. RESUME MIXING GROUT.

1225 CEMENT GROUT TO 1' bgs AFTER 1/2 BATCH (75 GALLONS w/ 14 BAGS PORTLAND & 1 BAG QUIKRETE)

5/18/2020 — MW-16 — 5

1225 (CONT) PREPARE TO MOVE TO LOCATION OF MW-16.

1325 BEGIN WORKING ON SURFACE COMPLETIONS.

1510 RIG IS SET UP ON MW-16. BEGIN CUTTING ASPHALT W/ CONCRETE CUTTER.

1525 BEGIN HAND AUGERING MW-16 TO 5'.

1605 FORK LIFT HAS A BAD LEAK.

1715 TONY OFF-SITE FOR PARTS TO FIX THE FORKLIFT.

1740 TONY IS BACK. THEY DIDN'T HAVE THE NEEDED PART @ AUSTRONE. THERE IS A PLACE THAT WILL BE OPEN IN THE AM THAT SHOULD HAVE THE PART. FOR NOW THEY WILL DO SOMETHING TO CONTROL THE LEAK SO THAT THEY CAN GET THINGS MOVED.

1900 SITE IS SECURED. MATERIALS HAVE BEEN MOVED INTO ENCLOSURE OFF-SITE.

5/18/2020

5/19/2020 MW-16 J. Fisher

0705 ONSITE. WEATHER IS COOL (65°F), SUNNY, BREEZY. HELD TAILGATE SAFETY MEETING.

0720 CONTINUE TO SET UP FOR DRILLING @ MW-16.

0815 TONY OFFSITE FOR PARTS TO FIX THE FORKLIFT.

0905 TONY BACK ONSITE. MOWING ABLE TO FIND THE NOGGED PIPES.

0945 FORKLIFT IS BACK IN BUSINESS.

0955 THE CHAINS ON THE CASING HAMMER HAS BECOME LOOSE. THEY ARE WORKING ON GETTING THINGS TIGHTENED BACK UP.

1040 CASING HAMMER IS READY TO GO.

1137 READY TO BEGIN DRILLING MW-16.

1215 120' OF CASING & DRILL PIPE ON THE FLATBED TO START.

1225 BEGIN DRILLING MW-16.

1235 GOING THROUGH CLAYEY SAND, SO DRILLING W/ WATER.

1355 CONTROL VALVE ON THE COMPRESSOR AIR CLUTCH IS SMOKING. SHUT DOWN FOR REPLACEMENT. THEY DO HAVE A SPARE.

5/19/2020 MW-16 3

1515 TURNS OUT THEY DO NOT HAVE A SPARE PART. THEY ARE SHIPPING A SPARE TO ABQ. THEY SHOULD BE READY TO RESUME DRILLING @ ~9AM TOMORROW.

1605 OFFSITE

5/19/2020

5/20/20 MW-16 HB

0430 onsite, weather: 40°F, clear
H:S meeting
YSD repair rig
1030 Resume drilling @ 60'
1440 @ 170' bgs
1840 @ 250' bgs
Site secure for overnight
HB - YSD offsite

5/20/20

HB MW-16 5/21/20

0640 onsite, weather: 58°F, clear
H:S meeting
0710 Loading more casing; minor rig maint
0910 Resume drilling
1000 Rolloff bin full - had called yesterday for a new rolloff bin to be delivered this morning - drilling halted
Clearing; securing site for the weekend
@ 300' bgs
1100 Rolloff bin delivery
1145 offsite

5/20/20

5/27/20 MW-16 KB

0635 HB: VJD onsite
Weather: 57°F, Clear
H&S meeting
0700 Setting up to resume drilling
0720 Resume drilling from 300'
0800 @ 330' bgs
Calibrate PID
zero gas = 0 ppm
100 ppm gas = 100 ppm
0925 @ 364' bgs - cannot proceed further
note: 0815 T. Golden: J Rauch note
Setting well @ TD of 364'
1005 Tripped bit out of hole
TD @ 366' bgs
1025 Loading screen: casing
1245 Installing screen: casing centralizers
1345 Tagged bottom @ 364' for bottom of built screen: casing
1355 Installing sand
1700 Sand @ 298' bgs - will continue

HB MW-16 5/27/20

tomorrow)
Cleaning: securing site for overnight
1800 offsite

5/27/20

5/28/20 MW-16 HB

0645 onsite
Weather: Cloudy, 60°F
H:S Meeting
Setting up to continue sandpack

0740 Continue sand pack

0835 Sand @ 275' bgs

0840 Begin swabbing

0940 Regauged well - sand in the bottom 10'

1040 Installing bentonite seal
10 bags to 268' bgs
Hydrating

1340 Mixing grout / removing casing
2 batches in ground
Casing out @ 20' bgs
w/ Grout

1630 Fixing MW-17 surface completion / cleaning

1900 Securing site
offsite

5/28/20

HB MW-16 5/29/20

0645 onsite
Weather: ~55°F, Clear
H:S meeting
Setting up to resume completing MW-16

0745 Grout @ 94' bgs - continue grouting

0810 Grout @ 25' bgs
Will wait: see if it will fall again

0815 Deploying dummy pipe
- went down, sand still in bottom 10'

0850 Grouting upper 20' bgs

0950 Cleaning location
1.5' stick up

1015 Traffic control in place for MW-15

1100 Surface completing MW-16

1315 Moving equipment to MW-15

1645 Loading casing - repairing grout
Pressure washing MW-16 location
Site secure

1930 offsite

5/29/20

5/30/20 MW-15 HB

0645 HB: YJD onsite
Weather: 64°F, partly cloudy
H&S meeting
Set up on MW-15, preparing to drill
Hand auger first 5' ft - clear
0730 Property owner came by - said it was okay that we were there
0750 Begin drilling
Calibrate PID
zero gas = 0.0 ppm
100 ppm gas = 100.0 ppm
1200 @ 160' bgs
1410 @ 260' bgs
Loading more casing
New roll off bin being delivered
1545 Resume drilling
1740 @ 355' bgs - casing cannot proceed; called T. Golden
Setting well @ 355' bgs w/ 10' less screen
1800 Getting drill stem out
Cleaning; securing site
1915 Offsite - TD 358'

5/30/20

HB MW-15 5/31/20

0645 HB: YJD onsite
Weather: 60°F, clear
H&S meeting
0710 Start loading screen & casing
0725 Water @ 329' bgs
Going to use 70' of screen instead such that there is 29' of screen below static water level
1035 Installing screen, casing & centralizers
1300 Begin installing filter pack
1620 Filter pack in place (Top: 274')
Swabbing
1735 Begin installing bentonite seal
1825 Top of bentonite: 264'
Cleaning, securing site
1830 Offsite

5/31/20

6/1/20 MW-15 HB

0645 HB-YJD onsite
Weather - 65°F, partly cloudy
HS meeting
0700 Setting up to continue completing well - grout 260' of casing in hole
0900 Mixing grout (high solids bentonite)
1100 Still grouting and removing casing
1220 6th batches - @ 50' bgs
HB Mixing another batch
Casing out of hole
1240 @ 38' bgs
1330 Mixing 6th batch - Still at 38' (120 Gal)
1435 55 gallons in ground - @ 20'
1440 Running dummy pipe
1500 Cleared out the way down
Begin mixing grout for upper 20'
1535 Leaving tension on pipe
Cleaning site
1715 Offsite

6/1/20

HB 6/2/20

0645 HB: YJD onsite
Weather: 65°F, clear
H-S meeting
0700 Setting up to surface complete MW-15 - clean site
130 ft casing added as riser for well
0900 Jon cutting MW-15
0915 Apparently a j-plug was stolen - no cap for this well
Will see that is sealed in some other matter
Having a plug shipped to our office
1030 Roll off scheduled for pick up tomorrow - Fencing scheduled for pick up tomorrow - same w traffic control
1130 Removed hydrant meter - YJD cleaning equipment
1200 Offsite

6/2/20

Page 1 of 1

ESTIMATED ANNULAR MATERIAL RECORD

Project No.: DB18.1157	Client: DBSA	ADWR Registration No.:
Well ID: MW-15	Date: 5/31/20	
Location: Clovis, NM	Weather: Sunny, 96°F	
Geologist: H.Barnes		

ANNULAR VOLUME CALCULATIONS

Total Depth of Borehole [T]:	358 feet	Total Cased Depth: 357.5 feet	
Length of Interval to be filled [L]:	87 sand feet	Rat Hole Volume [R]: 0 Ft³	0.20
Borehole Diameter [D]:	8.5 inches	Casing Diameter [d]: 5.5 inches	
Annular Volume (A): (D²-d²) 0.005454 =	0.229 Ft³/Lin. Ft		
Expected Calculated Volume = (AxL)+R=	17.862 Ft³		

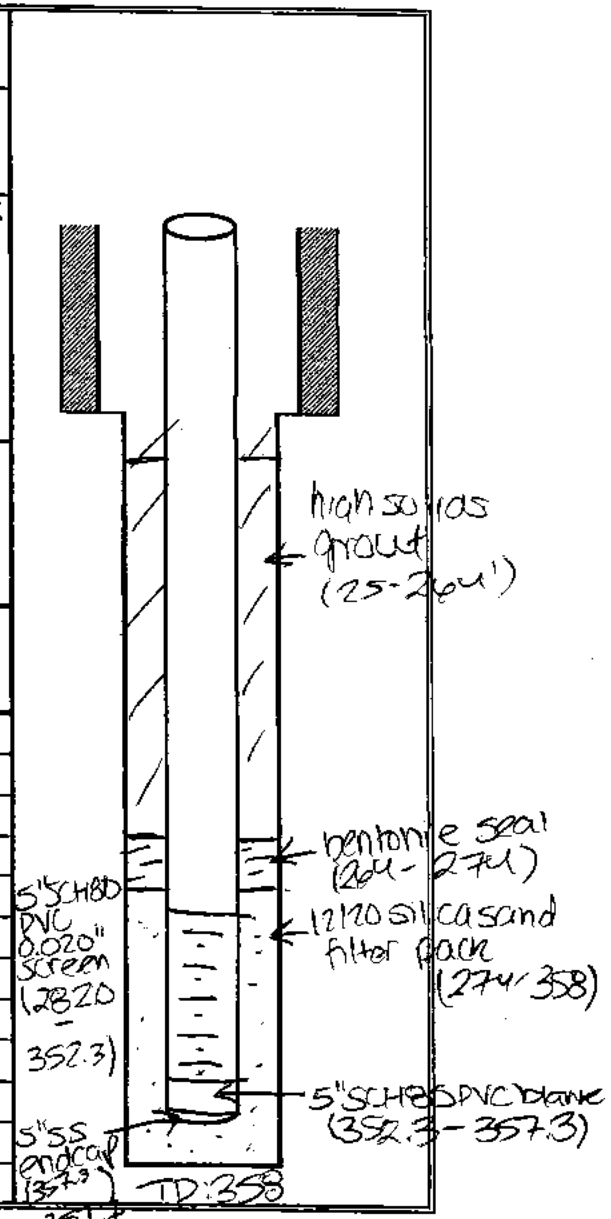
ANNULAR MATERIALS TALLY

Type of Annular Material: 12/20 sand
Type/Size of Container: 50lb bag
Measurement Method: tagline

EQUATIONS

2,700 lbs. Silica Sand = 1 cubic yard = 27 cubic feet
[1] Volume of bag (Ft³) = bag weight/100
[2] Calculated depth = Previous Calculated depth (v/A)

No.	✓	Weight of Bag (lbs.)	Volume of Bag (v) (ft³)	Total Vol. of Bags (ft³)	Calculated Depth (ft bls)	Tagged Depth (ft bls)	Comments
6		50	3.0	3.0	346	347	12/20 silica sand
13		50	3.5	6.5	331	337	
19		50	3.0	9.5	318	326	
25		50	3.0	12.5	305	317	
28		50	3.0	15.5	292	308	
36		50	4.0	19.5	275	289	
45		50	4.5	24.0	255	288	
52		50	4.0	28.0	238	278	
55		50	1.0	29.0	229	276	
56		50	0.5	29.5	227	274	
4		90	2.0	2.0	218	266.8	bentonite seal
1		90	0.5	2.5	216	264	



0.5 x (4.25)(4.25) 3.14 = 0.2 ft³

ESTIMATED ANNULAR MATERIAL RECORD

Project No.: DB18.1152	Client: NMED	ADWR Registration No.:
Well ID: MW-16	Date: 5/27/20	
Location: Clovis, NM	Weather: sunny, 8AM 101°F	
Geologist: H. Barnes		

ANNULAR VOLUME CALCULATIONS

Total Depth of Borehole [T]: 366 feet
Length of Interval to be filled [L]: 78 and feet
Borehole Diameter [D]: 8.5" inches
Annular Volume (A): $(D^2-d^2)\ 0.005454$ = 0.229 Ft³/Lin. Ft
Expected Calculated Volume = (AxL)+R= 18.652 Ft³ 18.652

Total Cased Depth: 364 feet
Rat Hole Volume [R]: Ft³
Casing Diameter [d]: 5.5 inches

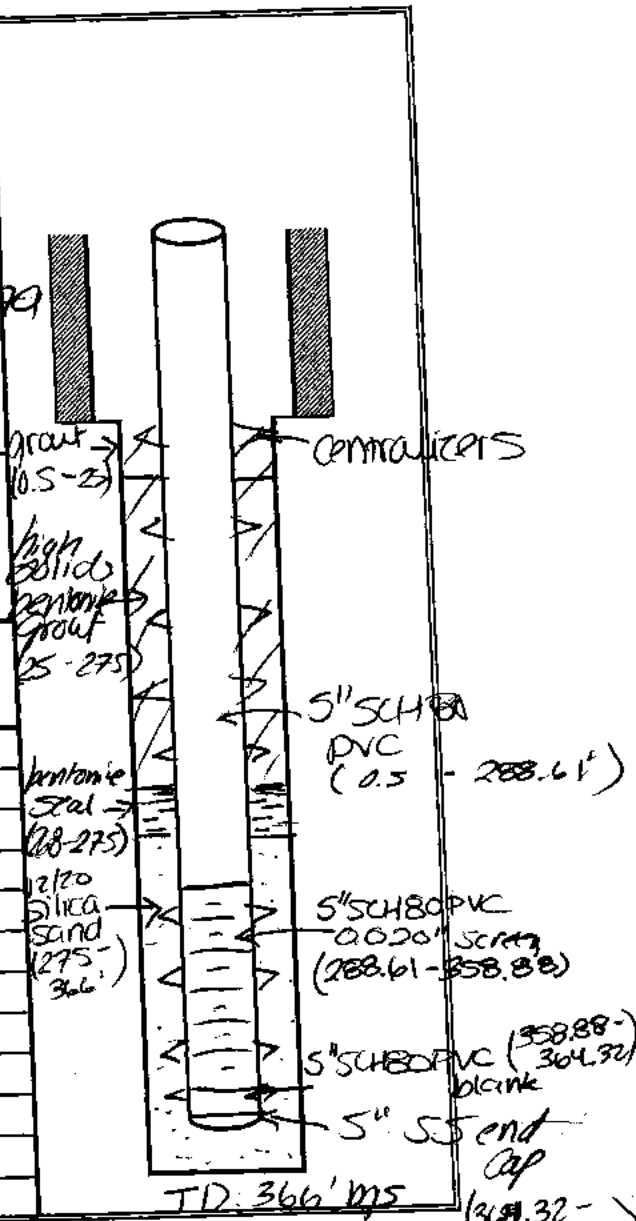
ANNULAR MATERIALS TALLY

Type of Annular Material: 12/20 sand
Type/Size of Container: 50lb bag
Measurement Method: Tagline

EQUATIONS

2,700 lbs. Silica Sand = 1 cubic yard = 27 cubic feet
[1] Volume of bag (Ft^3) = bag weight/100
[2] Calculated depth = Previous Calculated depth (v/A)

No.	✓	Weight of Bag (lbs.)	Volume of Bag (v) (ft³)	Total Vol. of Bags (ft³)	Calculated Depth (ft bls)	Tagged Depth (ft bls)	Comments
6		50	3.0	3.0	354.35	355	
10		50	5.0	8.0	332.51	346	
25		50	4.5	12.5	312.86	332	
29		60	2.0	14.5	304.13	328	
39		50	5.0	19.5	282.30	316	
47		50	4.0	23.5	264.83	308	
56		50	4.5	28.0	245.18	298	
68		50	6.0	34.0	218.98	286	
76		50	4.0	38.0	201.51	275	
10		50	5.0	5.0	179.68	268	bentonite



Page 1 of _____

ESTIMATED ANNULAR MATERIAL RECORD

Project No.: DB18.1157.00	Client: NMED	ADWR Registration No.:
Well ID: MW-17	Date: 5/6/2020	
Location: Clovis, NM	Weather: Warm (~90°F), P. Cloudy, Breezy	
Geologist: J. Fisher		

ANNULAR VOLUME CALCULATIONS

Total Depth of Borehole [T]:	370 feet	Total Cased Depth:	364 feet
Length of Interval to be filled [L]:	79 feet	Rat Hole Volume [R]:	~~6.301~~ Ft³ 2.366 ft³
Borehole Diameter [D]:	8.5" inches	Casing Diameter [d]:	5.5" inches
Annular Volume (A): (D²-d²) 0.005454 =	0.229 Ft³/Lin. Ft		
Expected Calculated Volume = (AxL)+R=	~~24.09~~ 20.451 Ft³		

ANNULAR MATERIALS TALLY

Type of Annular Material: 12/20 Silica Sand

Type/Size of Container: 50 lb Bag

Measurement Method:

EQUATIONS

2,700 lbs. Silica Sand = 1 cubic yard = 27 cubic feet

[1] Volume of bag (Ft^3) = bag weight/100 = 0.5 ft^3

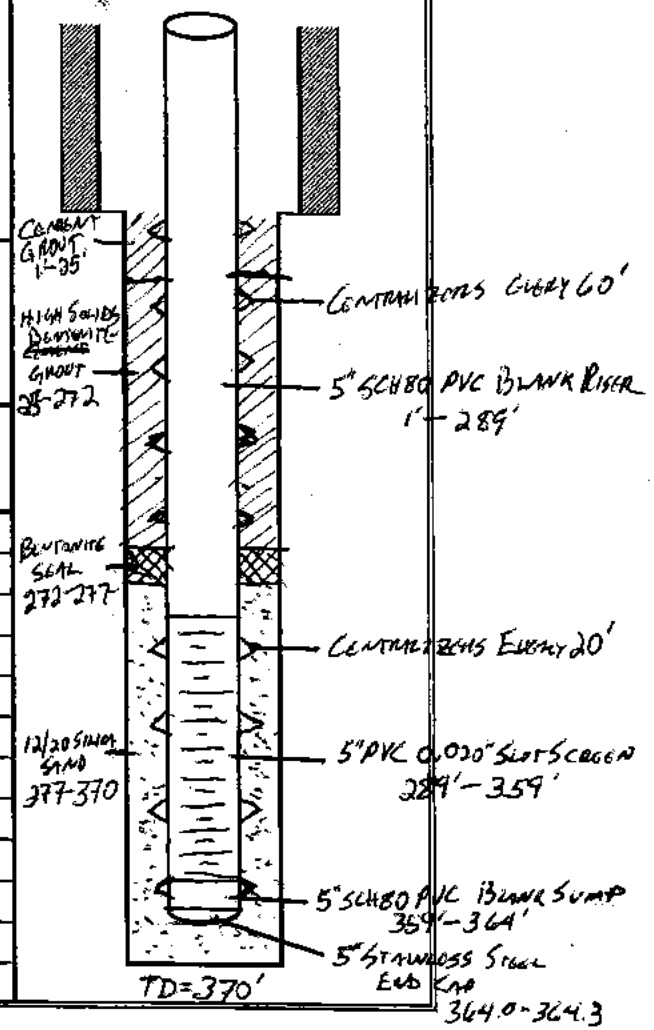
[2] Calculated depth = Previous Calculated depth (v/A)

No.	✓	Weight of Bag (lbs.)	Volume of Bag (v) (ft^3)	Total Vol. of Bags (ft^3)	Calculated Depth (ft bls)	Tagged Depth (ft bls)	Comments
12	✓	50	0.5	4.0	351	~~358~~	
32			~~10.0~~ 16.0	16.0	303	~~346~~ 349	
33			0.5	16.5	301	346	Bottom of Shoe @ ~346'
38			2.5	19.0	291	334	
43			2.5	21.5	281	326	
48			2.5	24.0	271	319.2	
53			2.5	26.5	261	308	
67			7.0	33.5	231	299	
83			8.0	41.5	196	288	
92		↓	4.5	46.0	176	277	
8		↓	4.0	~~2~~ 4.0	263.6	272	BENTONITE

(72.25 - 30.25)
(0.50179 - 0.24007)

GROUT INTERVAL VOL = 62.288 ft^3

~~GROUT SHOULD BE~~



Daniel B. Stephens & Associates, Inc.

PIPE TALLY

Project Name.:	Former Y	Project No.:	DB18.1157
Well No.:	MW-15	Date:	5/31/20
Location:	Clovis, NM	Pipe Talley for:	
Total Depth:		Geologist:	H. Barnes

Type of Connections: ☐ Welded ☐ T+C ☑ Flush Thread ☐ Other

Pipe	✓	Length (ft)	Length Σ (ft)	Pipe Type	Pipe	✓	Length (ft)	Length Σ (ft)	Pipe Type
		0.45	0.45	SS endcap					
		5.00	5.45	blank NSPC					
		10.05	15.50	0.020" screen					
		10.05	25.55						
		10.05	35.60						
		10.05	45.65						
3/8		10.04	55.69						
		9.95	65.64						
		10.05	75.69						
7/8		20.07	95.76	blank riser					
		20.08	115.84						
		20.08	135.92						
		20.07	155.97						
		20.07	176.04						
		20.07	196.11						
3/4		20.06	216.17						
7/8		20.07	236.24						
1/2		20.01	256.25						
1/8		20.01	276.26						
1/4		20.02	296.28						
3/8		20.03	316.31						
3/8		20.03	336.34						
3/4		20.06	356.40						
		10.01	366.41						

SUMMARY OF TALLY

Total length of casing/screen tallied (ft.): 366.41

Length of casing cut off after landing (ft.): ~~10.00~~ HB 8.70

Bottom of Casing (feet below land surface): 357.71

Screened Interval(s) (ft.bls):

Total feet of blank casing in hole (ft.):

Notes:

366.41 - 8.70 = 357.71 Bottom

endcap: 357.71 - 357.26

blank: 357.26 - 332.26

screen: 332.26 - 282.02

Daniel B. Stephens & Associates, Inc.

PIPE TALLY

Project Name.:	Former Y	Project No.:	DRB.1157
Well No.:	MW-16	Date:	5/27/20
Location:	Clovis, NM	Pipe Talley for:	
Total Depth:	36	Geologist:	H.BAMA

Type of Connections: ☐ Welded ☐ T+C ☑ Flush Thread ☐ Other

Pipe	✓	Length (ft)	Length Σ (ft)	Pipe Type	Pipe	✓	Length (ft)	Length Σ (ft)	Pipe Type
1	✓	0.44	0.44	Sendcap					
2	✓	5.00	5.44	blank					
3	✓	10.04	15.48	0.020 Slot					
4	✓	10.05	25.53						
5	✓	10.05	35.58						
6	✓	10.04	45.62						
7	✓	10.05	55.67						
8	✓	10.05	65.72						
9	✓	10.05	75.77						
10	✓	20.03	95.80	blank					
11	✓	20.05	115.85						
12	✓	20.02	135.87						
13	✓	20.03	155.90						
14	✓	20.04	175.94						
15	✓	20.04	195.98						
16	✓	20.02	216.00						
17	✓	20.03	236.03						
18	✓	20.02	256.05						
19	✓	20.04	276.09						
20	✓	20.03	296.12						
21	✓	20.02	316.14						
22	✓	20.04	336.18						
23	✓	20.03	356.21						
24	✓	10.05	366.26						
25	✓	5.00	371.26	for construction purposes					

SUMMARY OF TALLY

Total length of casing/screen tallied (ft.):	366.26
Length of casing cut off after landing (ft.):	1.50
Bottom of Casing (feet below land surface):	368.61
Screened Interval(s) (ft.bls):	288.61 - 358.88
Total feet of blank casing in hole (ft.):	204.05

Notes: 1.50' Stick up

369.76 bgs

endcap: 364.32 - 364.76
blank: 358.88 - 364.32
screen: 288.61 - 358.88

Daniel B. Stephens & Associates, Inc.

PIPE TALLY

Project Name.:	Former Y Station	Project No.:	DB18.1157.00
Well No.:	MW-17	Date:	5/16/2020
Location:	Clovis, NM	Pipe Talley for:	Well Materials
Total Depth:	370'	Geologist:	J. Fisher

Type of Connections: ☐ Welded ☐ T+C ☑ Flush Thread ☐ Other

Pipe	✓	Length (ft)	Length Σ (ft)	Pipe Type 5" SCHED PVC	Pipe	✓	Length (ft)	Length Σ (ft)	Pipe Type
1	✓	5.01	5.01	BLANK SUMP					
2	✓	10.05	15.06	0.020 SCREEN					
3	✓	10.06	25.12						
4	✓	10.05	35.17						
5	✓	10.05	45.22						
6	✓	10.05	55.27						
7	✓	10.05	65.32						
8	✓	10.05	75.37						
9	✓	20.04	95.41	BLANK RISER					
10	✓	20.07	115.48						
11	✓	20.06	135.54						
12	✓	20.07	155.61						
13	✓	20.07	175.68						
14	✓	20.08	195.76						
15	✓	20.07	215.83						
16	✓	20.05	235.88						
17	✓	20.09	255.97						
18	✓	20.08	276.05						
19	✓	20.09	296.14						
20	✓	20.08	316.22						
21	✓	20.10	336.32						
22	✓	20.08	356.40						
23	✓	10.07	366.47	BLANK RISER					
0	✓	0.36	366.83	STAINLESS END CAP					

SUMMARY OF TALLY

Total length of casing/screen tallied (ft.): 366.47

Length of casing cut off after landing (ft.): 2.42

Bottom of Casing (feet below land surface):

Screened Interval(s) (ft.bls):

Total feet of blank casing in hole (ft.):

Notes:

366.47 − 2.42 = 364.05

6-10-2020

6:40am LT on site 55° fresh
Yellow Jacket on site already was set up on well # MW-16.

7:05 Calibrated YSI

pH	7.04	7.04	18.70°C
	4.00	4.00	17.36
	10.05	10.09	19.52
SP Cond	1.260	1.260	18.67
ORP	220	220	15.85
DO	657.3	8.92 mg/L	14.11

	DTP	DTW	TD	Comm
MW-16	—	328.58	353.0	24.42 gallons

7:18 inserted swab to bring in the fines
well volume 24.91
3 well volume 74.73

7:54 inserted Bailer (Appx 7 Gallons)

8:40 Yellow Jacket released. Bailed water on site. There are ~~Two Containers on site~~ Two Containers on site

9:31 Began containerizing water into Container.

9:35 Finished Bailing 220 gallons

9:42 Began Pump Install

575-590-0199 YORK

time	vol.	pH	T(°C)	SC	DO	ORP	
11:01	int.	8.03	21.27	586	6.87	108.6	clear
11:15	75	7.71	22.35	494	4.63	183.0	clear
11:30	125	7.51	21.10	479	5.74	196.7	clear
11:45	200	7.81	21.06	478	5.13	204.6	clear
12:00	275	7.67	20.85	472	5.28	208.9	clear

Pump turned off. Began Break down of equipment to move to another well. Will do MW-17 next. Water tank has not yet arrived. Estimate Time of arrival 2:00 pm

totalizer Reading 814407
pump has outputs of 5 gallon/min.
End totalizer Reading 817808

12:15 Work's to MW-17 moving

6-10-2020

1:19 YJ is setting up at MW-07. On site @ MW-17

DTW	TD	Comm
328.92	~~334.00~~	IT well Volume
	360.00	~~5.79~~ IT
		3 well Volume
		~~17.37~~ IT

well vol - 31.70

3 well vol - 95.10

1:36 YJ began to swab well to bring in the Fines

2:10 Began to Bail

2:44 Grandy Marley on site with water Roll off Container. Will set up at MW-15.

3:24 Finished Bailing aprox 220 gallons YJ will return in AM to ~~pump~~ IT install Pump. Began to Rig up.

3:31 OFF SITE

IT

6-11-2020

6:30 on site @ MW-17 Continuing well development Sunny Clear 63°

6:40 YJ begins installing Pump. Pump Rate 5 gallon/minute totalizer Reading 818008

Time	vol	PH	Tc	SC	DO	ORP	Comm.
7:35	Int.	Int	8.07	21.20	495	7.31	152.9	Clear
7:55	95	7.99	20.30	484	6.35	161.0	Clear odorless
8:15	190	7.97	20.22	481	6.16	171.7	Clear
8:35	285	7.91	20.40	480	5.93	183.4	Clear
8:55	380	7.84	20.67	481	5.61	191.7	Clear

totalizer Final Reading 872006

Well development complete Rig down & prepare to move to MW-15

9:00

IT

9:56 On S/C at MW-15
YJ begins to Rig up
81° Sunny Clear, Breezy to Windy

MW-15	DTW	TD	one well Vdume 38.15 IT	27.95
	322.6	~~360.00~~ 350.0 IT	3 well volume ~~114.45~~ IT	83.85

10:38 YJ begins bailing well to Remove Sand. Bailed 440 gallons.
12:30 YJ begins to install pump
pump rated at 5 gallon/min.
totalizer initial Reading 822007

time	VOL	PH	T°c	SC	DO	ORP	
1:44	int.	7.91	34.78	604	5.62	119.1	Clear
2:00	80	7.90	23.57	600	6.72	132.6	Clear
2:15	155	7.87	22.75	602	5.73	146.1	Clear
2:32	~~155~~ 240	7.80	22.14	596	5.39	155.4	clear
2:46	310	7.88	21.95	599	5.49	162.0	Clear

totalizer reading 82~~5~~5007
2" well Complete.

IT OFFSITE

Groundwater Sampling

Daniel B. Stephens & Associates, Inc.

~~X RW-2,34~~
X BW-5

GROUNDWATER ELEVATION DATA SHEET

Project Name: Former Y Station
Project #: DB18.1157.00.~~0004~~
Project Manager: Tom Golden

Sampler: York Morgan
Sample Date: June 8, 2020
Sheet # 1 of 2

	Well ID	Depth to NAPL	Depth to Water	Total Depth	Comments: (well dia., sampled, condition)
10:10	BW-2	—	329.34		
10:27	BW-3	—	328.49		
10:37	BW-1	—	328.91		
10:48	BW-6	—	329.70		
11:05	RW-1	*No NAPL	329.22		*checked for NAPL 6.13.20 w/ interface probe
11:22	BW-4	—	329.04		
11:38	BW-9	—	328.11		
11:59	BW-10	—	325.77		
12:08	MW-14	—	318.52	~360	couldn't get repeatable bottom reading (TD)
12:19	MW-15	—	322.86	~~~362~~ ~352.15	TD - ~352.15 - difficult to tag before development
12:40	MW-17	—	329.19	~363.70	
12:51	MW-16	—	328.75	~363.20	
13:02	MW-11	—	325.24		
13:15	MW-13	—	326.77		
13:35	MW-12	—	328.60		

Comments: Interface probe - ~~Geotech Portal~~ DBS&A lab & Heron Dipper-T Solinst 122

Daniel B. Stephens & Associates, Inc.

GROUNDWATER ELEVATION DATA SHEET

Project Name: Formes 4 Sampler: York Morgan

Project #: DB18.1157.00 Sample Date: June 8, 2020

Project Manager: T. Golden Sheet # 2 of 2

	Well ID	Depth to NAPL	Depth to Water	Total Depth	Comments: (well dia., sampled, condition)
1350	BW-7R	–	327.83	360.95	
1400	BW-7	–	327.83		Double checked DTW
1411	RW-4	* None	328.85		could not get repeatable TD reading
1420	BW-5	*329.65	329.07		0.58' NAPL
1430	RW-3	* None	328.25		
1448	BW-8	* None	328.34		
1508	RW-2	* None	329.28		
	*	checked for NAPL 6-13-20 w/ interface probe			

Comments: ~~Geotech~~ Rental Interface probe From DB&A Lab

Solinst 122 + Heron Dipper-T

BW-1 Groundwater Sampling Data Sheet

Well identification **BW-1**	Date: 6-9-20
Sample identification **BW-1**	Sample time: 1503
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y. Morgan	Field book #: Y/A
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 328.91 TD=341.7
Water Level Indicator: Heron Dipper T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 12.79 x 0.653 gallons/foot = 8.35 gal x 3 CV = 25.05 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335	
Pump Start time: 1412	Pump Stop time: 1505

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1422	2		22.0	7.50	942	3.46	120.3
1428	5		21.4	7.41	1140	3.66	98.4
1436	15		21.3	7.37	1137	3.38	96.0
1445	20		21.9	7.33	1130	3.33	92.5
1458	25.5		21.9	7.34	1130	3.26	72.5

3rd Casing Volume

BW-2 Groundwater Sampling Data Sheet

Well identification **BW-2**	Date: 6-9-20
Sample identification **BW-2**	Sample time: 1123
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: V. Morgan	Field book #: Y/A
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 329.34
Water Level Indicator: Heron Dipper T	Water quality meter: YSI Pro Plus TD = 345.00
Purge Volume (3CV) : Water Column = 15.66 x 0.653 gallons/foot = 10.23 gal x 3 CV = 30.68 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335'	
Pump Start time: 1024	Pump Stop time: 1125

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
~~1016~~	~~1~~		~~19.7~~	~~9.09~~	~~34.7~~	~~4.74~~	~~73.2~~
1025	1		20.0	7.34	1057	3.77	150.7
1037	5		20.7	7.27	1060	3.40	136.6
1045	10		20.8	7.26	1068	3.11	133.1
1055	15		20.9	7.23	1059	2.97	129.5
1105	~~20~~		21.1	7.29	1068	3.09	129.7
1117	25		20.8	7.30	1060	3.20	129.5
1120	30		20.7	7.30	1051	3.21	128.8
1122	31		20.7	7.30	1052	3.21	128.7

1st Formal cylinder

BW-3 Groundwater Sampling Data Sheet

Well identification **BW-3**	Date: 6-9-20
Sample identification **BW-3**	Sample time: 0932
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: K. Morgan	Field book #: ym
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 328.49
Water Level Indicator: Heron Dipper T	Water quality meter: YSI Pro Plus TD = 344.8
Purge Volume (3CV) : Water Column = 11.31 x 0.653 gallons/foot = 10.65 gal x 3 CV = 31.95 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335'	
Pump Start time: 0824	Pump Stop time: 0935

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
0830	1		12.4	7.55	778	8.62	133.6
0838	5		18.2	7.26	1103	5.65	133.3
0847	10		18.5	7.27	1095	5.24	155.3
0856	15		18.2	7.29	1101	5.09	164.7
0906	20		18.8	233	1107	4.77	167.4
0914	25		18.7	7.31	1101	4.96	154.3
0924	30		18.7	7.33	1105	4.65	133.0
0930	33		18.9	7.32	1103	4.66	128.0

BW-4 Groundwater Sampling Data Sheet

Well identification **BW-4**	Date: 6-10-20
Sample identification **BW-4**	Sample time: 1830
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: L. Morgan, I Torres	Field book #: YR
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 329.04 TD: 349.40
Water Level Indicator: Heron Dipper T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 20.36 x 1.02 gallons/foot = 20.77 gal x 3 CV = 62.30 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335	
Pump Start time: 1721	Pump Stop time:

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1728	1		25.7	7.33	1004	5.19	102.4
1748	20		20.7	7.17	1013	5.72	128.6
1758	30		20.4	7.20	1015	5.74	134.7
1808	40		20.3	7.21	1017	5.74	132.7
1818	50		20.1	7.20	1013	5.74	126.4
~~1828~~ 1830	62.30		20.2	7.31	1011	5.90	114.3

BW-6 Groundwater Sampling Data Sheet

Well identification **BW-6**	Date: 6-9-20
Sample identification **BW-6**	Sample time: 1342
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y. Morgan	Field book #: YM
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 329.70' TD: 350.5'
Water Level Indicator: Heron Dipper-T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 20.8 x 1.02 gallons/foot = 21.22 gal x 3 CV = 63.65 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335'	
Pump Start time: 1154	Pump Stop time: 1345

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1206	2		20.9	7.49	863	4.28	99.3
1211	5		20.5	7.40	869	4.13	87.4
1219	10		20.2	7.35	820	4.19	92.5
1234	20		20.4	7.42	875	4.15	92.3
1247	30		20.5	7.41	844	3.99	82.2
1306	40		21.0	7.43	879	3.66	84.7
1320	50		20.7	7.43	869	3.90	84.9
1334	60		20.8	7.41	875	3.83	84.1
1340	64		20.7	7.41	844	3.74	82.6

end of cylinder

BW-7 Groundwater Sampling Data Sheet

Well identification **BW-7**	Date: 6-12-20
Sample identification **BW-7**	Sample time: 1144
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y. Moya	Field book #: Y/N
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 307.83 TD = 332.7
Water Level Indicator: Heron Dipper-T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 4.87 x 1.02 gallons/foot = 4.97 gal x 3 CV = 14.9 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): ~~330'~~	
Pump Start time: ~~330'~~ 1122	Pump Stop time: 1145

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1127	1		25.2	7.63	924	4.12	-76.2
1131	3		23.5	7.31	923	2.49	-82.0
1134	6		23.1	7.30	941	2.75	-92.8
1137	9		23.2	7.33	940	3.02	-92.7
1140	12		23.0	7.37	942	2.75	-94.2
1143	15		22.9	7.39	939	2.98	-94.6

BW-7R Groundwater Sampling Data Sheet

Well identification **BW-7R**	Date: 6-11-20
Sample identification **BW-7R**	Sample time: 0946
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: V. Morgan	Field book #: Y/A
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 327.83 TD = 360.95
Water Level Indicator: Heron Dipper-T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 33.12 x 1.02 gallons/foot = 33.78 gal x 3 CV = 101.35 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335	
Pump Start time: 0755	Pump Stop time: 0948

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
0801	1		20.6	7.36	966	3.98	114.7
0806	5		20.2	7.27	904	3.63	-36.9
0826	25		20.1	7.21	986	3.63	-91.5
0841	40		20.2	7.23	1002	3.63	-95.7
0856	55		20.3	7.25	~~936~~ 0893	3.04	-89.8
0911	70		20.5	7.30	1019	3.65	-84.2
0925	82		20.9	7.31	1017	3.54	-82.2
0935	92		20.7	7.31	1018	4.24	-77.5
0945	102		20.6	7.31	1014	3.49	-71.5

New Cycle @ 77 gal

BW-8 Groundwater Sampling Data Sheet

Well identification **BW-8**, BW-8 shallow HS BW-8 Deep HS	Date: 6-13-20
Sample identification **BW-8**	Sample time: 1630 - shallow HS 1635 - Deep HS (1748)
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: York Rogan	Field book: 4/n
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: ~~70~~ 328.34 ~~70~~ - 351.80
Water Level Indicator: Heron Dipper T; Solinst interface probe	Water quality meter: YSI ProPlus
Purge Volume (3CV) : Water Column = ~~23.46~~ x 0.653 gallons/foot = ~~15.32~~ gal x 3 CV = 45.96 gallons	
Equip Type : Bennett Pump (BW-8) / Hydrasleeves BW-8 shallow HS BW-8 Deep HS	
Pump placement (feet bgs): 335	
Pump Start time: 1655	Pump Stop time: 1749

All 3 samples dark gray w/ petroleum odor, Deep HS & Bennett pump samples darker than shallow HS sample

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
shallow HS 1630	—	~	22.1	7.34	1366	1.93	-195.0
Deep HS 1635	—	~	24.4	~~7.13~~ 7.53	1353	1.92	-208.8
1702	1	~	24.9	7.34	1310	2.78	-194.0
1706	5	~	23.1	7.34	1314	2.78	-191.3
1711	10	~	21.8	7.25	1353	2.83	-168.9
1721	20	~	21.1	7.21	1350	3.17	-151.3
1731	30	~	20.9	7.19	1336	3.26	-140.8
1741	40	~	20.7	7.17	1355	3.02	-130.0
1747	47	~	20.7	7.18	1371	3.21	-122.4

BW-9 Groundwater Sampling Data Sheet

Well identification **BW-9**	Date: 6-9-20
Sample identification **BW-9**	Sample time: 1722
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y. Morgan	Field book #: Y/L
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 398.11 TD = 347.6
Water Level Indicator: Heron Dipper-T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 19.49 x 0.653 gallons/foot = 12.73 gal x 3 CV = 38.18 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335	
Pump Start time: 1607	Pump Stop time: 1724

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1617	1		24.8	7.39	968	3.52	115.8
1634	5		21.9	7.49	578	3.79	103.8
1640	10		20.8	7.49	960	4.00	106.2
1646	15		20.4	7.49	954	3.98	99.2
1652	20		20.1	7.48	947	4.01	98.4
1659	25		20.1	7.52	938	4.02	99.9
1709	30		20.1	7.46	948	3.99	101.7
1716	35		20.1	7.49	944	4.08	101.9
1721	38.5		20.1	7.54	940	4.00	102.9

BW-10 Groundwater Sampling Data Sheet

Well identification **BW-10**	Date: 6.10.20
Sample identification **BW-10**	Sample time: 1158
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: York Morgan	Field book #: Ym
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 325.77 TD = 351.20
Water Level Indicator: Hoon Dipper-T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 25.43 x 0.653 gallons/foot = 16.61 gal x 3 CV = 49.8 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335	
Pump Start time: 1055	Pump Stop time: 1200

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1105	0		20.0	7.33	943	8.04	190.6
1110	5		21.3	7.39	947	6.39	170.6
1115	10		20.7	7.41	958	6.36	152.7
1126	20		20.4	7.44	971	6.36	133.2
1136	30		20.3	7.39	969	6.53	118.5
1146	40		20.3	7.44	966	6.37	107.4
1156	50		20.5	7.42	957	6.19	101.2

MW-11 Groundwater Sampling Data Sheet

Well identification **MW-11**	Date: 6.13.20
Sample identification **MW-11**, MW-11 Shallow HS MW-11 Deep HS	Sample time: Shallow HS 1150 ~~Deep HS 1155~~ 1523
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y Morgan	Field book #: Y2
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 325.24 TD: 360.5
Water Level Indicator: Heron Dipper T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 35.26 x 1.02 gallons/foot = 35.97 gal x 3 CV = 107.90 gallons	
Equip Type : Bennett Pump (MW-11)	Hydrasleeve MW-11 Shallow HS MW-11 Deep HS
Pump placement (feet bgs): 332	
Pump Start time: 1328	Pump Stop time: 1524

Not enough sample to measure parameters for MW-11 Shallow HS → sleeve filled only partially

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
MW-11 Deep HS 1155	—	—	23.3	7.70	888	1.81	-111.8
1336	2		24.3	7.65	881	3.06	-128.5
1344	10		22.3	7.54	873	3.33	-131.8
1404	30		21.3	7.53	862	3.68	-130.1
1424	50		21.2	7.53	856	3.70	-128.0
1442	68		21.3	7.52	847	3.88	-126.6
1502	88		22.4	7.54	845	3.93	-124.1
1518	98		21.3	7.51	845	3.84	-123.1
1522	102		21.3	7.52	843	3.44	-125.0

Grey w/ petroleum odor

~~Color~~ Color & odor with time

MW-12 Groundwater Sampling Data Sheet

Well identification **MW-12**	Date: 6-12-20
Sample identification **MW-12**	Sample time: 1608
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: V. Morgan	Field book #: 4
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 328.60 TD: 362
Water Level Indicator: Heron Dipper T	Water quality meter: YSI
Purge Volume (3CV) : Water Column = 33.4 x 1.02 gallons/foot = 34.07 gal x 3 CV = 102.24 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335	
Pump Start time: 1420	Pump Stop time: 1610

No Color/Odor

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1426	1		26.7	7.56	865	3.08	-66.9
1435	10		23.4	7.31	860	2.60	-45.6
1455	30		22.3	7.36	850	3.67	-59.9
1515	50		21.5	7.39	813	3.70	-71.5
1535	70		21.7	7.47	832	4.02	-75.4
1555	90		21.5	7.45	820	4.01	-74.7
1607	102.5		21.6	2.44	814	4.06	-73.0

MW-13 Groundwater Sampling Data Sheet

Well identification **MW-13**	Date: 6-12-20
Sample identification **MW-13**	Sample time: 1027
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: York Borg	Field book #: 4in
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 326.77 TD: 362
Water Level Indicator: Heron Dipper T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 35.23 x 1.02 gallons/foot = 35.93 gal x 3 CV = 107.8 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335	
Pump Start time: 0835	Pump Stop time: 1030

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
0840	2.0		20.8	7.73	851	3.48	149.2
0848	10.0		20.1	7.44	846	3.74	154.5
0858	20.0		20.0	7.46	831	4.12	141.3
0918	~~20.0~~ 40.0		20.2	7.55	826	4.82	111.3
0938	60		20.3	7.57	812	4.30	76.6
0958	80		20.8	7.59	814	5.09	29.3
1018	100		20.6	7.53	772	5.04	10.0
1026	108		20.7	7.57	781	4.98	0.8

MW-14 Groundwater Sampling Data Sheet

Well identification MW-14 MW-14 Shallow HS MW-14 Deep HS	Date: 6.10.20
Sample identification MW-14	Sample time: 1553 Shallow - 1255 HS Deep - 1300 HS
Project: Former Y Station Remedial Action	Project # DB18.1157.00
Field personnel: Y. Morgan	Field book #: YM
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 318.52 TD = 360 ft
Water Level Indicator: Heron Dipper-T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 41.48 x 1.02 gallons/foot = 42.31 gal x 3 CV = 126.93 gallons	
Equip Type : Shallow HS Hydrasleeve 5' below DTW. Deep HS Hydrasleeve 5' above bottom of screen, Bennett Pump	
Pump placement (feet bgs): 325	
Pump Start time: 1335	Pump Stop time:

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
Shallow HS 1255	—	—	22.6	7.83	621	4.69	129.8
Deep HS 1300	—	—	22.6	7.95	637	5.96	103.9
1342	1	~	26.1	7.77	627	5.29	116.0
1355	10	~	22.2	7.72	621	5.69	103.7
1405	20	—	21.0	7.74	623	5.96	97.6
1425	40	—	20.6	7.74	619	6.23	93.9
1445	60	—	20.6	7.73	612	6.18	104.0
1505	80	~	20.6	7.76	604	6.49	114.4
1525	100	—	21.3	7.79	610	6.54	117.0
1545	120	~	20.5	7.72	611	7.18	128.0
1557	127	—	20.5	7.77	611	6.47	123.9

MW-~~12~~ 15 Groundwater Sampling Data Sheet

Well identification ~~MW-12~~ MW-15	Date: 6.4.20
Sample identification MW-~~12~~ 15	Sample time: 1841
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y. Moya, I. Torres	Field book #: YM
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 322.86 TD= ~360.00
Water Level Indicator: Heron Dipper T	Water quality meter: YSI Pro. Plus
Purge Volume (3CV) : Water Column = 37.94 x 1.02 gallons/foot = 38.69 gal x 3 CV = 116.09 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 330'	
Pump Start time: 1636	Pump Stop time: 1843

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1644	1		21.6	7.49	724	6.36	104.7
1653	10		21.8	7.67	732	7.67	109.1
1703	20		21.1	7.63	641	7.53	111.8
1723	40		21.2	7.75	730	7.63	112.1
1743	60		20.5	7.72	726	7.68	110.7
1803	80		20.3	7.72	728	7.73	109.3
1823	100		20.2	7.73	725	7.68	108.2
1840	117		20.1	7.73	729	7.68	110.8

~~MW-24~~ MW-16 Groundwater Sampling Data Sheet

Well identification ~~MW-24~~ MW-16	Date: 6-11.20
Sample identification ~~MW-24~~ MW-16	Sample time: ~~1326~~ 1241
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: York Morgan	Field book #: YM
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 328.75 TD = 363.20
Water Level Indicator: Heron Dipper-T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 34.45 x 1.02 gallons/foot = 35.14 gal x 3 CV = 105.42 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335'	
Pump Start time: 1050	Pump Stop time: 1243

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1054	1.0		25.5	7.76	550	6.43	48.6
1109	15		21.8	7.73	554	6.76	74.6
1119	25		21.4	7.60	566	6.90	88.7
1134	40		21.4	7.65	575	7.05	109.5
1144	50		21.1	7.64	576	6.99	108.5
1204	70		21.1	7.55	570	7.11	104.1
1214	80		21.2	7.70	551	7.23	100.7
1224	90		21.3	7.73	548	6.82	98.7
1234	100		21.3	7.69	563	7.23	95.9
~~1240~~ 1240	106		21.3	7.70	566	7.21	94.4

MW-~~11~~ 17 Groundwater Sampling Data Sheet

Well identification MW-~~1~~ 17	Date: 6.11.20
Sample identification MW-~~1~~ 17	Sample time: 1529
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: V. Morgan	Field book #: N/A
Casing diameter/type: 5" SCH 80 PVC	Initial DTW @ TOC: 329.19 TD=363.70
Water Level Indicator: Heron Dipper T	Water quality meter:
Purge Volume (3CV) : Water Column = 34.51 x 1.02 gallons/foot = 35.2 gal x 3 CV = 105.6 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335	
Pump Start time: 1325	Pump Stop time: 1531

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1343	1		~~26.2~~	7.77	586	7.81	63.1
1352	10		~~20.8~~	~~7.96~~ 7.66	582	7.92	77.8
1402	20		22.4	7.70	573	7.39	82.6
1422	40		21.6	7.69	584	8.03	90.1
1432	50		21.6	7.70	585	8.06	87.3
1447	65		21.6	7.70	584	8.10	90.4
1457	75		21.5	7.69	583	8.15	93.6
1508	86		21.8	7.74	581	7.35	91.3
1519	96		21.4	7.73	576	8.07	90.9
1529	106		21.3	7.76	586	7.78	88.7

RW-1 Groundwater Sampling Data Sheet

Well identification **RW-1**	Date: 6-13-20
Sample identification **RW-1**	Sample time: 0848
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y. Morgan	Field book #: Yn
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 329.22 TD= 360'
Water Level Indicator: Interface Probe 500' Solinst, Heron Dipper	Water quality meter: YSI
Purge Volume (3CV) : Water Column = 30.78 x 0.653 gallons/foot = 20.09 gal x 3 CV = 60.29 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335	
Pump Start time: ~~0748~~ 0740	Pump Stop time: 0857

Light gray, slight petroleum odor

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
0750	4		19.7	7.37	963	3.30	-150.4
0756	10		19.4	7.35	937	3.51	-152.6
0806	20		19.2	7.41	937	4.29	-131.7
0821	35		19.2	7.42	904	4.72	-111.5
0831	45		19.3	7.42	893	5.01	-104.3
0841	55		19.5	7.41	886	4.74	-97.6
0847	61		19.4	7.42	876	5.16	-100.5

RW-2 Groundwater Sampling Data Sheet

Well identification **RW-2**	Date: 6.14.20
Sample identification **RW-2**	Sample time: 1002
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y. Morgan	Field book #: N/A
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 329.88 TD= 365
Water Level Indicator: Solinst Interface Probe / Heron Dipper T	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 35.72 x 0.653 gallons/foot = 23.33 gal x 3 CV = 69.98 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 335	
Pump Start time: 0844	Pump Stop time: 1004

Light gray w/ petroleum odor

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
0852	2	—	22.1	7.14	847	3.06	-189.0
0900	10	—	20.2	7.47	841	3.75	-215.4
0910	20	—	20.0	7.58	794	3.57	-206.1
0920	30	—	19.7	7.55	770	4.46	-175.2
0930	40	—	19.8	7.54	759	4.11	-146.9
0940	50	—	19.8	7.50	753	3.87	-136.9
0950	60	—	20.4	7.44	737	3.83	-126.2
1000	70	—	20.4	7.43	711	4.09	-126.7

RW-3 Groundwater Sampling Data Sheet

Well identification **RW-3**	Date: 6-13-20
Sample identification **RW-3**	Sample time: 1031
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: Y. Morgan	Field book #: Y1
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 328.35 TD= 360'
Water Level Indicator: Heron Dipper-T, Solinist Interface probe	Water quality meter: YSI Pro Plus
Purge Volume (3CV) : Water Column = 31.75 x 0.653 gallons/foot 20.73 gal x 3 CV = 62.20 gallons	
Equip Type : Bennett pump	
Pump placement (feet bgs): 335	
Pump Start time: 0915	Pump Stop time: 1033

Dark grey → black, petroleum odor

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
0931	3		22.5	7.37	1072	3.77	-153.9
0937	10		20.9	7.27	1034	3.26	-179.4
0947	20		20.4	7.23	987	3.65	-161.8
0959	32		20.4	7.22	992	3.50	-153.3
1009	42		20.5	7.21	1010	3.38	-145.1
1019	52		20.4	7.24	1005	4.02	-138.1
1030	63		20.5	7.28	1004	3.58	-138.0

RW-4 Groundwater Sampling Data Sheet

Well identification **RW-4**	Date: 6-17-20
Sample identification **RW-4**	Sample time: 1347 6 VOAs
Project: **Former Y Station Remedial Action**	Project # **DB18.1157.00**
Field personnel: V. Morgan	Field book #: YM
Casing diameter/type: 4" SCH 80 PVC	Initial DTW @ TOC: 328.85, TD = ~360'
Water Level Indicator: Heron Dipper T, Solinst interface probe	Water quality meter: YSI Pro Plus
Purge Volume (3CV): Water Column = 31.15 x 0.653 gallons/foot = 20.34 gal x 3 CV = 61.02 gallons	
Equip Type : Bennett Pump	
Pump placement (feet bgs): 33.5	
Pump Start time: 1239	Pump Stop time: 1348

Purge water is grayish brown w/ petroleum odor

Time	Total Q (gallons)	Q Rate (gpm)	Temp (°C)	pH	Specific Conductance (µS/cm)	DO (mg/L)	ORP (mV)
1245	1		25.9	7.45	950	3.08	-170.8
1250	5		23.4	7.31	959	3.01	-170.7
1300	15		23.1	7.35	963	2.98	-165.2
1305	20		22.9	7.32	937	2.95	-161.3
1325	40		22.2	7.35	947	3.24	-146.0
1336	51		22.2	7.33	905	3.24	-132.5
1346	61		22.1	7.33	908	3.19	-125.8

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NAPL RECOVERY DATA SHEET

Project Name: Former Y Station
Project #: DB18.1157.00.SI019.0004
Project Manager: Tom Golden
Well #: BW-5
Initial Depth to NAPL: 39.65 (feet btoc)
Initial Depth to Water: 39.07 (feet btoc)
Initial NAPL Thickness: 0.58 (feet)

Sampler: York Morgan
Date: 6-8-20 gauged 6-14-20 - Recovery
Time: 1720
Well Diameter: 5 (inches)
Bailer Diameter: 3 (inches)
Start Time: 1310
End Time: 1356

Note:
Bailer volume (SCH 40 PVC): 1.5" ID bailer = 0.09 gal/ft; 3.0" = 0.37 gal/ft

Bailer #	NAPL Thickness in Bailer (feet)	Water Thickness in Bailer (feet)	Remarks / Time
1	0.25	1.5	1310
2	0.26	0.8	1313
3	0.22	1.0	1316
4	0.1	0.8	1320
5	0.1	0.8	1325
6	0.12	1.0	1330
7	0.06	0.6	1337
8	0.05	0.8	1341
9	0.02	0.7	1344
10	0.02	0.3	1347
11	0.00	0.0	1350 leaked
12	0.02	0.9	1358
13	0.01	1.1	1354
14	0.00	0.6	1356
15			

Bailer #	NAPL Thickness in Bailer (feet)	Water Thickness in Bailer (feet)	Remarks / Time
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

Totals:

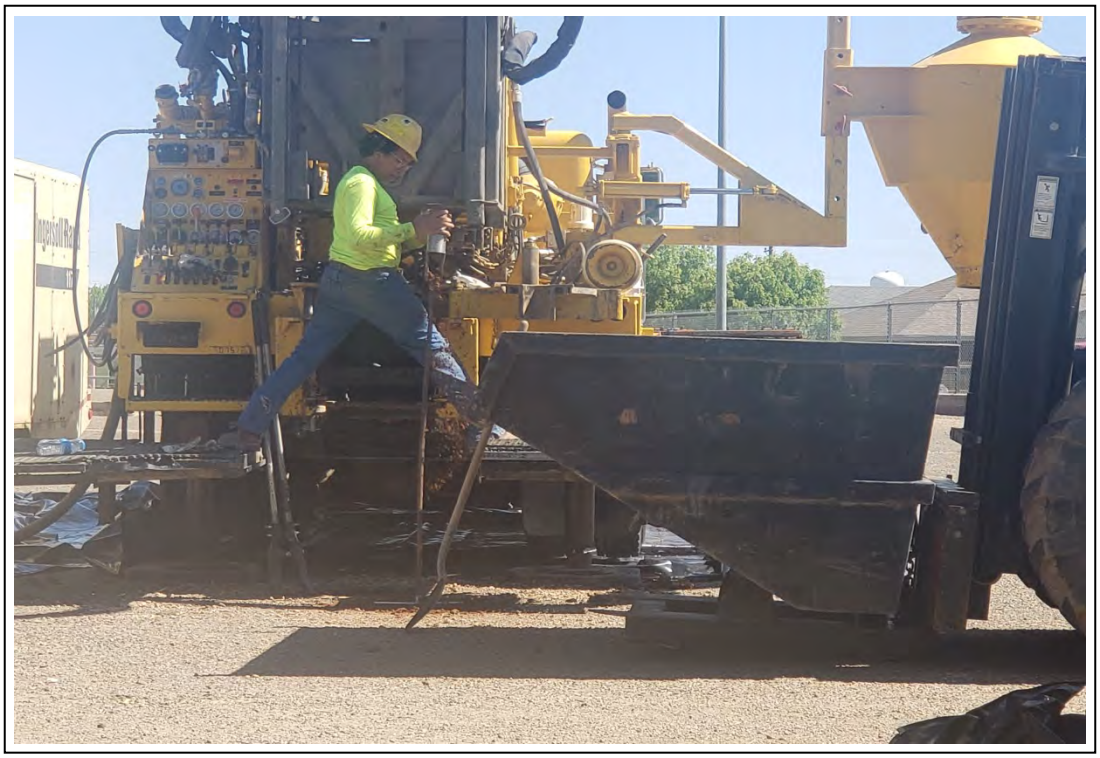
NAPL Thickness: 1.03 (feet)
Volume of NAPL: 0.46 (gal)
Final Depth to Water: _____ (feet btoc)

Water Thickness: 10.3 (feet)
Volume of Water: 3.81 (gal)
Final Depth to NAPL: _____ (feet btoc)

Appendix C

Photographic Documentation

1. Setting up to drill MW-17, view to the west.



2. Hand-augering the first few feet of MW-17, view to the north.

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CLOVIS, NEW MEXICO
Photographs

3. Installing surface completion at MW-17, view to the northwest.

4. Drilling MW-16, view to the north.

5. Installing casing in MW-16, view to the northwest.

6. Installing centralizers in MW-16, view to the northwest.

7. Swabbing MW-16, view to the northwest.

8. Installing bentonite seal in MW-16, view to the northwest.

9. Deploying dummy pipe in MW-16, view to the northwest.

10. Cleaning MW-16 location, view to the northwest.

11. Traffic control for MW-15, view to the north.

12. Installing sand filter pack in MW-15, view to the west.

13. Grouting MW-15, view to the west.

14. Completed monitor well MW-15, view to the north.

15. Completed monitor well MW-16, view to the northwest.

16. Completed monitor well MW-17, view to the north.

Appendix D

Well Diagrams

S:\Projects\DB18.1157_Former_Y_Station\VR_Drawings\LogPlot

Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	0-10	NA	0-0.5	Asphalt.
	0.0			SC	0.5-10	Clayey sand - reddish yellow (5YR6/6), fine grained, poorly sorted, subrounded, low plasticity, trace fine gravels (CaCO3 cemented sand), slightly moist, no odor
	0.5	100	10-20	CL	10-30	Sandy clay - reddish yellow (5YR6/6), fine grained sand, low to moderate plasticity, soft, slightly moist, no odor, trace CaCO3
	0.5	100	20-30	CL		Sandy clay - as above, slightly increased sand content
	0.3	100	30-40	SP	30-50	Sand - yellowish red (5YR5/6) and pink (5YR7/4), fine grained, well sorted, subrounded to subangular, partially cemented, trace silt, dry,no odor
	0.5	100	40-50	SP		Sand - light brown (7.5YR6/4), fine to medim grained, well sorted,subangular, partially cemented, trace silt, dry,no odor
	0.4	100	50-60	SW	50-70	Sand - light reddish brown (5YR6/4), fien to coarse grained, poorly sorted, subrounded to subangular, partially cemented, trace silt, dry, no odor
	0.3	100	60-70	SW		Sand - as above, more strongly cemented, dry, no odor
	0.2	100	70-80	SP	70-340	Sand - pink (7.5YR7/4), fine grained, well sorted, subrounded, subrounded to suangular, well cemented, dry, no odor
	1.3	100	80-90	SP		Sand - light brown (7.5YR6/4), fine to medim grained, well sorted,subrounded, loose, very little CaCO3, trace silt, dry, no odor
	1.2	100	90-100	SP		Sand - as above, finer grained, less silt
	0.2	100	100-110	SP		Sand - as above, fine, increased silt
	0.4	100	110-120	SP		Sand - as above
	0.4	100	120-130	SP		Sand - as above, increased CaCO3
	0.3	100	130-140	SP		Sand - as above, increased silt

Geologist: H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 5/30/2020
Well completion date: 6/2/2020

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: 1244212.54 Elevation: 4268.58
Easting: 884972.00

FORMER Y STATION
STATE LEAD SITE
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MW-15

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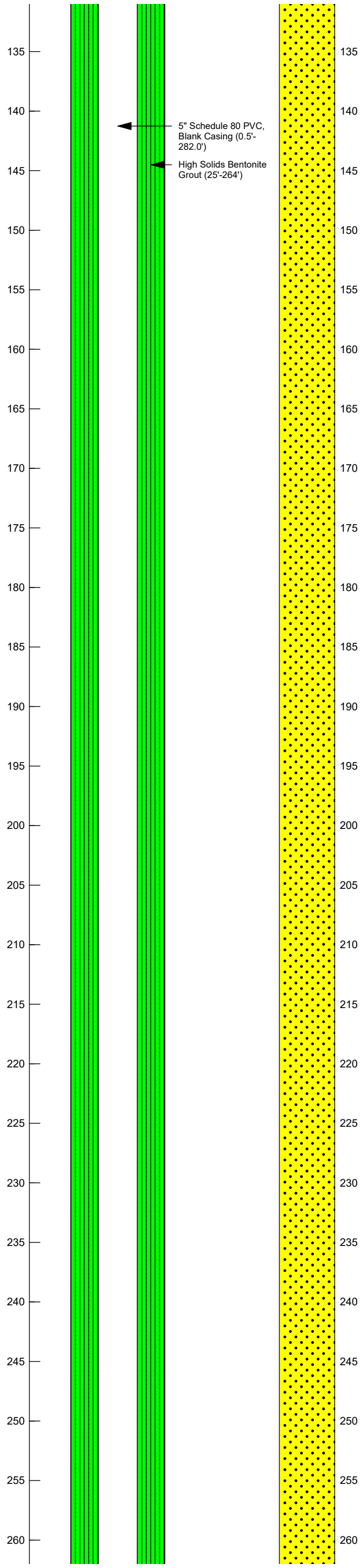
S:\Projects\DB18.1157_Former_Y_Station\VR_Drawings\LogPlot



Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	0.2	100	140-150	SP		Sand - as above
	0.2	100	150-160	SP		Sand - as above, no CaCO3
	0.3	100	160-170	SP		Sand - as above, reddish yellow (7.5YR6/6), increased silt
	1.4	100	170-180	SP		Sand - as above
	1.9	100	180-190	SP		Sand - as above, slightly coarser grained, less silt
	2.5	100	190-200	SP		Sand - as above
	0.5	100	200-210	SP		Sand - as above
	0.8	100	210-220	SP		Sand - as above
	0.1	100	220-230	SP		Sand - as above, increased silt
	0.0	100	230-240	SP		Sand - as above
	0.1	100	240-250	SP		Sand - as above, decreased silt
	0.1	100	250-260	SP		Sand - as above
	0.0	100	260-270	SP		Sand - as above

Geologist: H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 5/30/2020
Well completion date: 6/2/2020

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: 1244212.54 Elevation: 4268.58
Easting: 884972.00

FORMER Y STATION
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MW-15

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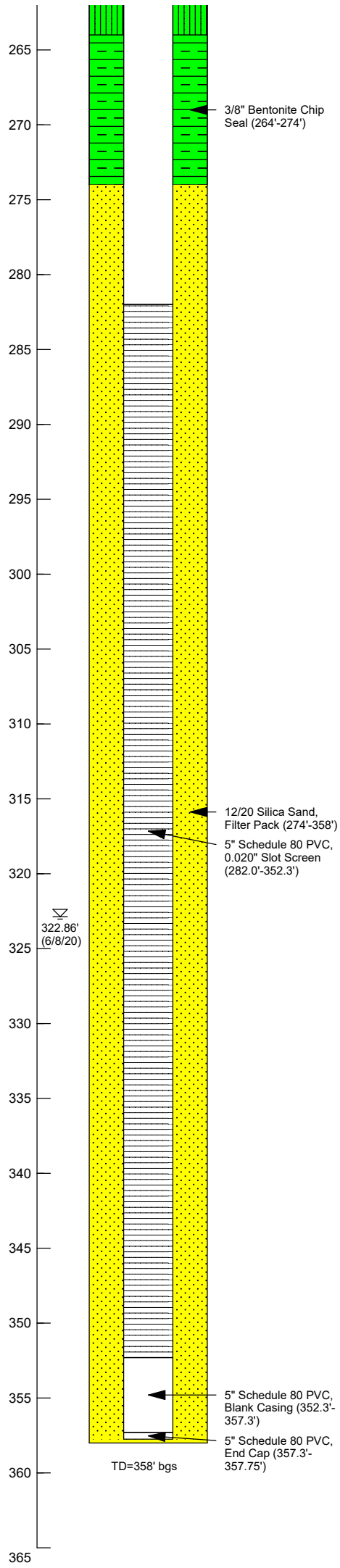

Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	0.0	100	270-280	SP		Sand - as above
	0.0	100	280-290	SP		Sand - as above, increased silt
	1.8	100	290-300	SP		Sand - as above
	0.8	100	300-310	SP		Sand - as above
	0.3	100	310-320	SP		Sand - as above
	0.8	100	320-330	SP		Sand - as above
	0.1	100	330-340	SP		Sand - as above, moist
		100	340-350	SM	340-350	Silty sand - reddish yellow (7.5YR6/6), fine grained, well sorted, subrounded, saturated
		100	350-355	SM/GM	350-355	Silty sand and gravel - reddish yellow (7.5YR6/6), fine to medium grained, fine gravels, poorly sorted, subrounded to subangular, saturated, no odor
			355-358	GW	355-358	Sandy gravel - brown (7.5YR5/2), fine gravels, trace cobbles (up to 1.5"), subrounded to subangular, partially to well cemented, no odor

Geologist: H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 5/30/2020
Well completion date: 6/2/2020

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: 1244212.54 Elevation: 4268.58
Easting: 884972.00

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MW-15

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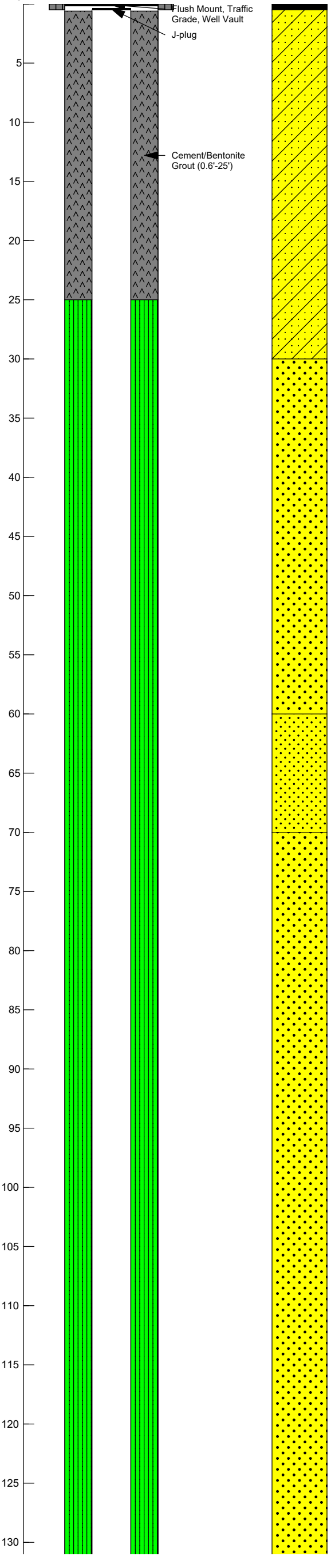

Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	0-10	NA	0-0.5	Asphalt.
	0.0			SC	0.5-30	Clayey sand - reddish yellow (5YR7/6), fine grained, poorly sorted, subrounded to subangular, moderate plasticity, soft, moist,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

Geologist: J. Fisher and H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 5/18/2020
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
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MW-16

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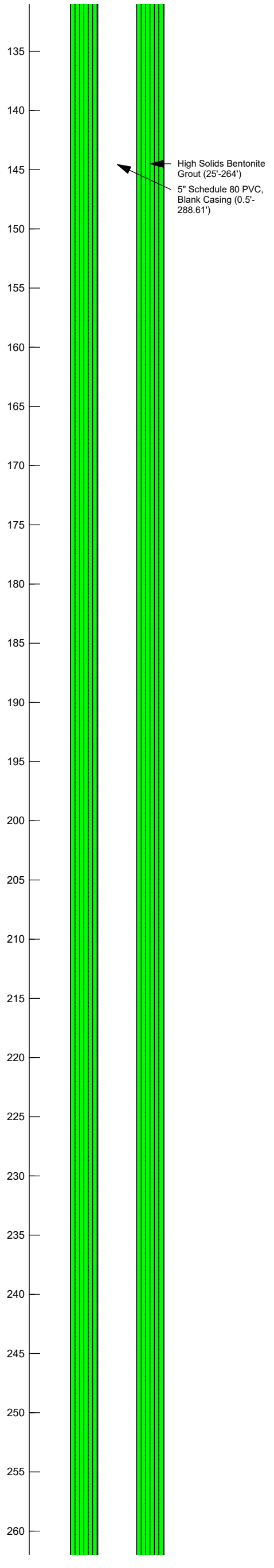

Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	1.4	100	140-150	SP		Sand - as above, increased silt
	1.8	100	150-160	SP		Sand - as above, decreased silt
	1.4	100	160-170	SP		Sand - as above
	2.7	100	170-180	SP		Sand - as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

Geologist: J. Fisher and H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 5/18/2020
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

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MW-16

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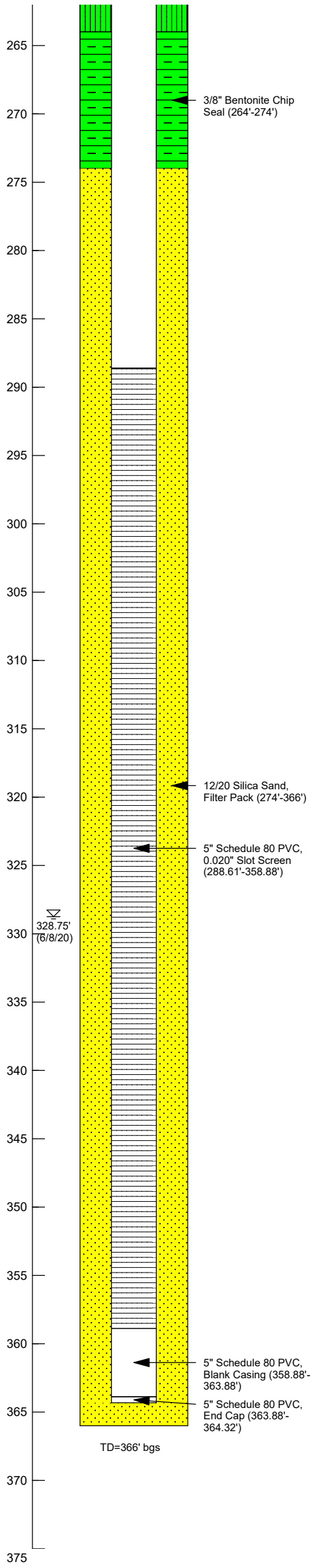

Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	2.2	100	270-280	SP		Sand - as above, no CaCO3
	5.1	100	280-290	SP		Sand - as above
	1.6	100	290-300	SP		Sand - as above, reddish yellow (7.5YR6/6), trace CaCO3
	0.6	100	300-310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

Geologist: J. Fisher and H. Barnes
Driller: Yellow Jacket Drilling
Drilling start date: 5/18/2020
Well completion date: 5/29/2020

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

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

FORMER Y STATION
STATE LEAD SITE
CLOVIS, NEW MEXICO

MW-16

Daniel B. Stephens & Associates, Inc.
6/26/2020 JN DB18.1157.00

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Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
		100	0-10	NA	0-0.5	Asphalt
	0.2			SC	0.5-10	Clayey sand - reddish yellow (5YR6/6), fine grained, poorly sorted, subrounded, trace fine gravels, low plasticity,slightly moist, no odor, CaCO3 nodules
	0.0	100	10-20	CL	10-40	Sandy clay - light reddish brown (5YR6/4), low palsticity, fine sand, CaCO3 nodules, dry, no odor
	0.6	100	20-30	CL		Sandy clay - as above
	0.1	100	30-40	CL		Sandy clay - as above
	0.0	100	40-50	SP	40-60	Sand - yellowish red (5YR5/6) and pink (5YR7/4), fine, well sorted, subrounded to subangular, non-plastic, CaCO3 nodules, partially cemented, trace silt, dry, no odor
	0.0	100	50-60	SP		Sand - as above
	0.0	100	60-70	SW	60-70	Sand - yellowish red (5YR5/6), fine to coarse grained, poorly sorted, subrounded to subangular, non-plastic, partially cemented (CaCO3), dry, no odor
	0.2	100	70-80	SP	70-340	Sand - light brown (7.5YR6/4), fine grained, well sorted, subrounded to subangular, partially cemented, increased CaCO3, dry, no odor
	0.0	100	80-90	SP		Sand - as above
	0.1	100	90-100	SP		Sand - light reddish brown (5YR6/4), medium to coarse grained, well sorted, subrounded, loose to partially cemented, less CaCO3, dry, no odor
	0.0	100	100-110	SP		Sand - as above, fine to medium grained, trace silt
	0.0	100	110-120	SP		Sand -yellowish red (7.5YR6/6), fine grained, well sorted, subrounded to subangular, loose, very little CaCO3, dry, no odor
	0.0	100	120-130	SP		Sand - as above, increased silt, increased CaCO3
	0.4	100	130-140	SP		Sand - as above, finer grained, little to no CaCO3

Geologist: H. Barnes and J. Fisher
Driller: Yellow Jacket Drilling
Drilling start date: 5/14/20
Well completion date: 5/18/20

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: 1245101.07 Elevation: 4277.42
Easting: 884841.33

FORMER Y STATION
STATE LEAD SITE
CLOVIS, NEW MEXICO
MW-17

Daniel B. Stephens & Associates, Inc.
6/26/2020 JN DB18.1157.00

S:\Projects\DB18.1157_Former_Y_Station\VR_Drawings\LogPlot

Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	0.8	100	140-150	SP		Sand - as above
	0.6	100	150-160	SP		Sand - as above
	1.4	100	160-170	SP		Sand - as above, finer grained sand, increased silt
	0.6	100	170-180	SP		Sand - as above, decreased silt
	0.0	100	180-190	SP		Sand - as above
	1.2	100	190-200	SP		Sand - as above
	0.0	100	200-210	SP		Sand - as above
	3.0	100	210-220	SP		Sand - as above
	0.6	100	220-230	SP		Sand - as above
	0.8	100	230-240	SP		Sand - as above, minor silt
	0.7	100	240-250	SP		Sand - as above
	0.1	100	250-260	SP		Sand - as above - minor CaCO3 nodules
	1.1	100	260-270	SP		Sand - as above

Geologist: H. Barnes and J. Fisher
Driller: Yellow Jacket Drilling
Drilling start date: 5/14/20
Well completion date: 5/18/20

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

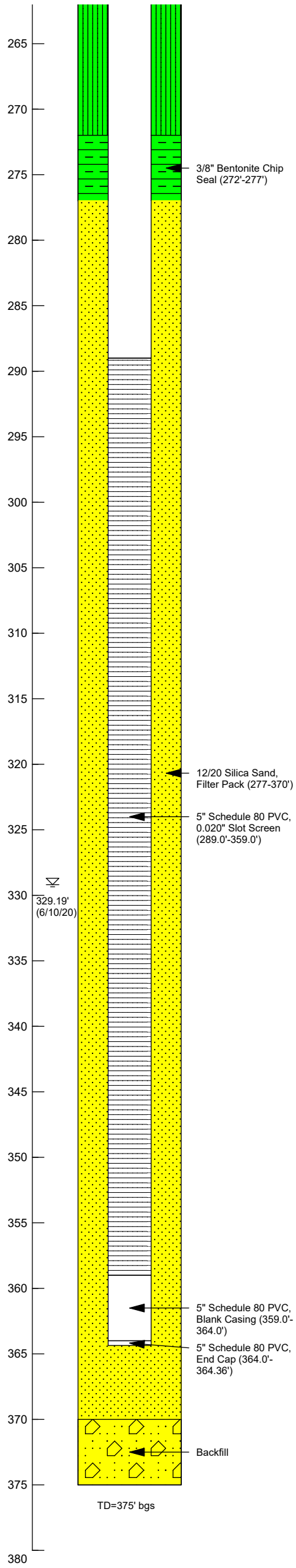
DTW= Depth to water measured below top of casing (feet)
New Mexico State Plane East NAD83
Northing: 1245101.07 Elevation: 4277.42
Easting: 884841.33

FORMER Y STATION
STATE LEAD SITE
CLOVIS, NEW MEXICO

MW-17

Daniel B. Stephens & Associates, Inc.
6/26/2020 JN DB18.1157.00

S:\Projects\DB18.1157_Former_Y_Station\VR_Drawings\LogPlot



Graphic Log	PID reading (ppm)	Sample Recovery (%)	Sample Interval (ft bgs)	USCS Symbol	Lithology Interval	Comments and Lithology
	0.0	100	270-280	SP		Sand - as above, little tono CaCO3, decreased silt
	0.3	100	280-290	SP		Sand - as above
	0.0	100	290-300	SP		Sand - as above
	0.0	100	300-310	SP		Sand - as above, slightly moist
	0.0	100	310-320	SP		Sand - as above, trace CaCO3 nodules
	0.0	100	320-330	SP		Sand - as above, moist
	0.0	100	330-340	SP		Sand - as above, increasing moisture, trace clay
	NA	100	340-350	SM	340-350	Silty sand - yellowish red (5YR6/6), fine grained, well sorted, rounded, trace low plasticity clay, partially cemented, wet, no odor
	NA	100	350-360	SC	350-370	Clayey sand - yellowish red (5YR6/6), fine grained, well sorted, subrounded, low plasticity, wet, no odor
	NA	100	360-370	SC		Clayey sand - as above, saturated
	NA	100	370-375	GW	370-375	Sandy Gravel - reddish brown (2.5YR5/4), fine to coarse grained sand, well graded, loose, subangular to angular, gravels up to 2-1/2", saturated, no odor

Geologist: H. Barnes and J. Fisher
Driller: Yellow Jacket Drilling
Drilling start date: 5/14/20
Well completion date: 5/18/20

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: 1245101.07 Elevation: 4277.42
Easting: 884841.33

FORMER Y STATION
STATE LEAD SITE
CLOVIS, NEW MEXICO

MW-17

Daniel B. Stephens & Associates, Inc.
6/26/2020 JN DB18.1157.00

Appendix E

Waste Manifests

24-HOUR SERVICE, CALL
LOVINGTON 396-4948
TATUM 398-4960

GANDY MARLEY

P.O. BOX 1658 • ROSWELL, NEW MEXICO 88202

P.O. BOX 2140
LOVINGTON, NEW MEXICO 88260

37857

AUTHORIZATION FOR WORK

Date 3/14/2020

YOUR NO. 43

COMPANY Yellow Jacket LEASE

MAIL INVOICE TO WELL #17

DESCRIPTION OF WORK

Transport Box #5862 from Roswell to Clovis & drop @ site 1905 N. Prince
Behind Business

Equipment Used roll off	@ $	Hrs. worked	Total	
Box Rent	@ $	Hrs. worked	Total	
Liner	@ $	Hrs. worked	Total	
Jet Out	@ $	Hrs. worked	Total	
Disposal	@ $	Hrs. worked	Total	
Disposal Facility	@ $	Hrs. worked	Total	
Box No. Delivered	@ $	Hrs. worked	Total	
Box No. Picked Up	@ $	Hrs. worked	Total	
			Sub Total	
			Sales Tax	
			TOTAL	

Driver Chase Bishop

Approved by [signature]

Superior Printing Service, Inc. - 104

24-HOUR SERVICE, CALL
LOVINGTON 396-4948
TATUM 398-4960

GANDY MARLEY

P.O. BOX 1658 • ROSWELL, NEW MEXICO 88202

P.O. BOX 2140
LOVINGTON, NEW MEXICO 88260

38062

AUTHORIZATION FOR WORK

Date 15 May 2020 YOUR NO. 43

COMPANY Yellow Jacket Drilling Svc. LEASE DB5+A

MAIL INVOICE TO ______ WELL ______

DESCRIPTION OF WORK Dropped off empty & lined 146
Picked up 1/2 full SB82

Equipment Used Roll off	@ $	Hrs. worked	Total	
Box Rent	@ $	Hrs. worked	Total	
Liner	@ $	Hrs. worked	Total	
Jet Out	@ $	Hrs. worked	Total	
Disposal	@ $	Hrs. worked	Total	
Disposal Facility	@ $	Hrs. worked	Total	
Box No. Delivered	@ $	Hrs. worked	Total	
Box No. Picked Up	@ $	Hrs. worked	Total	
			Sub Total	
			Sales Tax	
			TOTAL	

Driver [signature] Approved by [signature]

Superior Printing Service, Inc. - 104

N.M.E.D. – DP-1041

Gandy Marley, Inc.

P.O. BOX 1658 • ROSWELL, NM 88202

LOAD INSPECTION FORM 19941

Date of Receipt: 5-15-20 Time of Receipt 2:23 AM/PM Cell Placement: UST-10

Quantity 10 T/CY: yards Description: Monitoring Well, ~~groundwater~~ Soil cuttings

Name/Address of Generator: Daniel B Stephens & Assoc. 6020 Academy NE Suite 100 Albuquerque, NM 8710

Origin of Materials (if different) Clovis, NM

Transporter Name: R. Marley SCC ID No.

Name of Laboratory Performing Sample Analysis

TCLP (EPA Method 1311) BTEX MTBE TPH Non-Hazardous ✓ Exempt ✓

Verification of No Free Liquids Paint Filter Liquids Test Performed

Verification of Property Completed Manifest ✓ Generator Manifest Number 2020-0001

As a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Generator represents and warrants that the waste material shipped herewith is exempt from the Resource Conservation and Recovery Act of 1976, as amended from time to time, 40 U.S.C. Section 6901, et seq., The New Mexico Health and Safety Code, section 361.001, et seq., and regulations related thereto, OR has been characterized as non-hazardous material by virtue of appropriate laboratory analysis done in accordance with EPA-approved testing methods.

Further, as a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Transporter represents and warrants that only the material delivered by Generator to Transporter is now delivered by Transporter to Gandy Marley, Inc.'s facility for disposal.

THIS WILL CERTIFY that the above Transporter loaded the material as represented on this Load Inspection Form at the above described location, and that it was tendered by the above described Generator. THIS WILL CERTIFY that no additional materials were added to this load, and that the material was delivered without incident.

Transporter: Jason Walker (Print Name) Jason Walker (Signature)

GMI Employee: Kimberly Murphy (Print Name) Kimberly Murphy (Signature)

Contaminated Soils Shipment Manifest

1. Manifest Document No. 20200001

2. Page ____ of ____

GENERATOR

3. Generator's Name and Mailing Address
Daniel B. Stephens
6020 Academy NE Suite 100
Albuquerque, NM 87109

4. Generator Phone No.

5. Generator Contact

TRANSPORTER

6. Transporter 1 Company Name
R Marley

7. ID No.
43

8. Transporter 2 Company Name

9. ID No.

10. Designated Disposal Facility Name and Site Address
Gandy Marley, Inc. Contaminated Soils Landfarm
7200 East Second Street
PO Box 1658
Roswell, NM 88201

11. Facility Permit Number
DP-1041

12. Facility Phone No.
(575) 398-0107

13. Description of Waste	14. Containers No	14. Containers Type	15. Total Quantity	16. Unit Wt.Vol.
a. Clovis, NM Monitoring Well Soil cuttings			10	yards
b.				
c.				

17. Special Handling Instructions and Additional Information

18. Generator's Certification: *I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state, and international laws.*

FURTHER. I represent and warrant that the waste material as described on this manifest is either exempt from the Resource Conservation and Recovery Act of 1976, OR has been characterized as non-hazardous material by virtue of appropriate laboratory analysis done in accordance with EPA-approved testing methods.

Printed/Typed Name	Signature	Date

19. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date
JASON WALKER	Jason Walker	05/15/20

20. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date

GMI

21. Discrepancy Information

22. Facility Owner or Operator Certification of receipt of materials described on this manifest except as noted in item 21.

Printed/Typed Name	Signature	Date
Kimberly Murphy	Kimberly Murphy	05/15/20

24-HOUR SERVICE, CALL
LOVINGTON 396-4948
TATUM 398-4960

GANDY MARLEY

P.O. BOX 1658 • ROSWELL, NEW MEXICO 88202

P.O. BOX 2140
LOVINGTON, NEW MEXICO 88260

38063

AUTHORIZATION FOR WORK

Date 20 May 2020

YOUR NO. 64

COMPANY DBS&A LEASE

MAIL INVOICE TO WELL

DESCRIPTION OF WORK Dropped off empty & lined SB ~~45~~ 145
Picked up full SB 82

Equipment Used Roll off @ $ Hrs. worked Total

Box Rent @ $ Hrs. worked Total

Liner @ $ Hrs. worked Total

Jet Out @ $ Hrs. worked Total

Disposal @ $ Hrs. worked Total

Disposal Facility @ $ Hrs. worked Total

Box No. Delivered @ $ Hrs. worked Total

Box No. Picked Up @ $ Hrs. worked Total

Sub Total

Sales Tax

TOTAL

Driver Jason Walker Approved by

Superior Printing Service, Inc. - 104

N.M.E.D. — DP-1041

Gandy Marley, Inc.

P.O. BOX 1658 • ROSWELL, NM 88202

LOAD INSPECTION FORM 19947

Date of Receipt: 5-21-20 Time of Receipt: 2:19 ~~AM~~ PM Cell Placement: HST-10

Quantity 20 T/CY: yards Description: Soil Cuttings

Name/Address of Generator: Daniel B Stephens + Assoc. 6020 Academy NE Suite 100 Albuquerque, NM 87109

Origin of Materials (if different) Clovis NM

Transporter Name: R Marley SCC ID No.

Name of Laboratory Performing Sample Analysis

TCLP (EPA Method 1311) BTEX MTBE TPH Non-Hazardous ✓ Exempt ✓

Verification of No Free Liquids Paint Filter Liquids Test Performed

Verification of Property Completed Manifest ✓ Generator Manifest Number 2020-0002

As a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Generator represents and warrants that the waste material shipped herewith is exempt from the Resource Conservation and Recovery Act of 1976, as amended from time to time, 40 U.S.C. Section 6901, et seq., The New Mexico Health and Safety Code, section 361.001, et seq., and regulations related thereto, OR has been characterized as non-hazardous material by virtue of appropriate laboratory analysis done in accordance with EPA-approved testing methods.

Further, as a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Transporter represents and warrants that only the material delivered by Generator to Transporter is now delivered by Transporter to Gandy Marley, Inc.'s facility for disposal.

THIS WILL CERTIFY that the above Transporter loaded the material as represented on this Load Inspection Form at the above described location, and that it was tendered by the above described Generator. THIS WILL CERTIFY that no additional materials were added to this load, and that the material was delivered without incident.

Transporter: Jason Walker (Print Name) Jason Walker (Signature)

GMI Employee: Kimberly Murphy (Print Name) Kimberly Murphy (Signature)

Contaminated Soils Shipment Manifest

1. Manifest Document No. 2020000102

2. Page ____ of ____

GENERATOR

3. Generator's Name and Mailing Address
Daniel B Stephens & Assoc.
6020 Academy NE
Suite 100
Albuquerque, NM 87109

4. Generator Phone No.

5. Generator Contact

6. Transporter 1 Company Name
R. Marley

7. ID No.
94

8. Transporter 2 Company Name

9. ID No.

10. Designated Disposal Facility Name and Site Address
Gandy Marley, Inc. Contaminated Soils Landfarm
7200 East Second Street
PO Box 1658
Roswell, NM 88201

11. Facility Permit Number
DP-1041

12. Facility Phone No.
(575) 398-0107

13. Description of Waste	14. Containers No	14. Containers Type	15. Total Quantity	16. Unit Wt.Vol.
a. Clovis, NM Soil Cuttings			20	yards
b.				
c.				

17. Special Handling Instructions and Additional Information

18. Generator's Certification: *I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state, and international laws.*

FURTHER. I represent and warrant that the waste material as described on this manifest is either exempt from the Resource Conservation and Recovery Act of 1976, OR has been characterized as non-hazardous material by virtue of appropriate laboratory analysis done in accordance with EPA-approved testing methods.

Printed/Typed Name	Signature	Date

TRANSPORTER

19. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date
Jason Walker		05/21/20

20. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date

GMI

21. Discrepancy Information

22. Facility Owner or Operator Certification of receipt of materials described on this manifest except as noted in item 21.

Printed/Typed Name	Signature	Date
Kimberly Murphy	Kimberly Murphy	05/21/20

24-HOUR SERVICE, CALL
LOVINGTON 396-4948
TATUM 398-4960

GANDY MARLEY

P.O. BOX 1658 · ROSWELL, NEW MEXICO 88202

P.O. BOX 2140
LOVINGTON, NEW MEXICO 88260

37879

AUTHORIZATION FOR WORK

Date 5-18-2020 YOUR NO. 43

COMPANY DBS&A LEASE

MAIL INVOICE TO 6020 Academy NE Suite 100, Albuquerque, NM 87109 WELL MW-17

DESCRIPTION OF WORK Drop off Box # 80 and (Prince St) Delivered Box # 146 To Gas Location.

Equipment Used ✓	@ $	Hrs. worked	Total	
Box Rent ✓	@ $	Hrs. worked	Total	
Liner ✓	@ $	Hrs. worked	Total	
Jet Out ✓	@ $	Hrs. worked	Total	
Disposal	@ $	Hrs. worked	Total	
Disposal Facility ✓	@ $	Hrs. worked	Total	
Box No. Delivered 80	@ $	Hrs. worked	Total	
Box No. Picked Up 146	@ $	Hrs. worked	Total	
			Sub Total	
			Sales Tax	
			TOTAL	

Driver [signature] Approved by [signature] DBS&A

Superior Printing Service, Inc. - 104

N.M.E.D. — DP-1041

Gandy Marley, Inc.

P.O. BOX 1658 • ROSWELL, NM 88202

LOAD INSPECTION FORM 19948

Date of Receipt: 5-22-20 Time of Receipt 9:32 AM PM Cell Placement: UST-10

Quantity 20 T/CY: yards Description: Soil Cuttings

Name/Address of Generator: Daniel B Stephens 6020 Academy NE Suite 100 Albuquerque, NM 87109

Origin of Materials (if different) Doris, NM 405 W Prince Street

Transporter Name: R Marley SCC ID No.

Name of Laboratory Performing Sample Analysis

TCLP (EPA Method 1311) BTEX MTBE TPH Non-Hazardous ✓ Exempt ✓

Verification of No Free Liquids Paint Filter Liquids Test Performed

Verification of Property Completed Manifest ✓ Generator Manifest Number 2020-0023

As a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Generator represents and warrants that the waste material shipped herewith is exempt from the Resource Conservation and Recovery Act of 1976, as amended from time to time, 40 U.S.C. Section 6901, et seq., The New Mexico Health and Safety Code, section 361.001, et seq., and regulations related thereto, OR has been characterized as non-hazardous material by virtue of appropriate laboratory analysis done in accordance with EPA-approved testing methods.

Further, as a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Transporter represents and warrants that only the material delivered by Generator to Transporter is now delivered by Transporter to Gandy Marley, Inc.'s facility for disposal.

THIS WILL CERTIFY that the above Transporter loaded the material as represented on this Load Inspection Form at the above described location, and that it was tendered by the above described Generator. THIS WILL CERTIFY that no additional materials were added to this load, and that the material was delivered without incident.

Transporter: Jose Beltran (Print Name) (Signature)

GMI Employee: Kimberly Murphy (Print Name) Kimberly Murphy (Signature)

Contaminated Soils Shipment Manifest

1. Manifest Document No. 20200093

2. Page ____ of ____

3. Generator's Name and Mailing Address
Daniel B Stephens
6020 Academy NE Suite 100
Albuquerque, NM 87109

4. Generator Phone No.

5. Generator Contact

6. Transporter 1 Company Name
R Marley

7. ID No.
43

8. Transporter 2 Company Name

9. ID No.

10. Designated Disposal Facility Name and Site Address
Gandy Marley, Inc. Contaminated Soils Landfarm
7200 East Second Street
PO Box 1658
Roswell, NM 88201

11. Facility Permit Number
DP-1041

12. Facility Phone No.
(575) 398-0107

GENERATOR

13. Description of Waste	14. Containers No	14. Containers Type	15. Total Quantity	16. Unit Wt.Vol.
a. Clovis, NM 1905 N Prince Street Soil Cuttings			20	yards
b.				
c.				

17. Special Handling Instructions and Additional Information

18. Generator's Certification: *I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state, and international laws.*

FURTHER. I represent and warrant that the waste material as described on this manifest is either exempt from the Resource Conservation and Recovery Act of 1976, OR has been characterized as non-hazardous material by virtue of appropriate laboratory analysis done in accordance with EPA-approved testing methods.

Printed/Typed Name	Signature	Date

TRANSPORTER

19. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date
Rose Beltran		05 22 20

20. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date

GMI

21. Discrepancy Information

22. Facility Owner or Operator Certification of receipt of materials described on this manifest except as noted in item 21.

Printed/Typed Name	Signature	Date
Kimberly Murphy	Kimberly Murphy	05 22 20

24-HOUR SERVICE, CALL
LOVINGTON 396-4948
TATUM 398-4960

GANDY MARLEY

P.O. BOX 1658 · ROSWELL, NEW MEXICO 88202

P.O. BOX 2140
LOVINGTON, NEW MEXICO 88260

37859

AUTHORIZATION FOR WORK

Date 5-30-2020 YOUR NO. 94

COMPANY DRSIA LEASE

MAIL INVOICE TO 6020 Academy Dr ABQ NM 87109 WELL 15

DESCRIPTION OF WORK

Transport empty Box to Clovis SB153
Pick up full Box SB~~500~~ 145 & take to GMI

Equipment Used 94-8-SB153/SB~~500~~ 145 Rolloff @ $ Hrs. worked Total

Box Rent @ $ Hrs. worked Total

Liner @ $ Hrs. worked Total

Jet Out @ $ Hrs. worked Total

Disposal @ $ Hrs. worked Total

Disposal Facility @ $ Hrs. worked Total

Box No. Delivered @ $ Hrs. worked Total

Box No. Picked Up @ $ Hrs. worked Total

Sub Total

Sales Tax

TOTAL

Driver

Approved by

Superior Printing Service, Inc. - 104

N.M.E.D. — DP-1041

Gandy Marley, Inc.

P.O. BOX 1658 • ROSWELL, NM 88202

LOAD INSPECTION FORM 19957

Date of Receipt: 5-30-20 Time of Receipt 5 AM (PM) Cell Placement: UST - 10

Quantity 10 T/CY: yards Description: CS / Soil

Name/Address of Generator: Daniel B Stevens

Origin of Materials (if different) Allsup's Clovis, NM

Transporter Name: K Marley Truck 94 - 37859 SCC ID No.

Name of Laboratory Performing Sample Analysis

TCLP (EPA Method 1311) BTEX MTBE TPH Non-Hazardous ✓ Exempt ✓

Verification of No Free Liquids ✓ Paint Filter Liquids Test Performed

Verification of Property Completed Manifest Generator Manifest Number

As a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Generator represents and warrants that the waste material shipped herewith is exempt from the Resource Conservation and Recovery Act of 1976, as amended from time to time, 40 U.S.C. Section 6901, et seq., The New Mexico Health and Safety Code, section 361.001, et seq., and regulations related thereto, OR has been characterized as non-hazardous material by virtue of appropriate laboratory analysis done in accordance with EPA-approved testing methods.

Further, as a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form; Transporter represents and warrants that only the material delivered by Generator to Transporter is now delivered by Transporter to Gandy Marley, Inc.'s facility for disposal.

THIS WILL CERTIFY that the above Transporter loaded the material as represented on this Load Inspection Form at the above described location, and that it was tendered by the above described Generator. THIS WILL CERTIFY that no additional materials were added to this load, and that the material was delivered without incident.

Transporter: _____ (Print Name) _____ (Signature)

GMI Employee: Ryan Johnson (Print Name) _____ (Signature)

24-HOUR SERVICE, CALL
LOVINGTON 396-4948
TATUM 398-4960

GANDY MARLEY

P.O. BOX 1658 • ROSWELL, NEW MEXICO 88202

P.O. BOX 2140
LOVINGTON, NEW MEXICO 88260

37552

AUTHORIZATION FOR WORK

Date 6-3-2020

YOUR NO. 94

COMPANY Daniel B Stephens & LEASE 1905 N Prince

MAIL INVOICE TO Claus Mell

DESCRIPTION OF WORK

Pick up full
Wash & Dump
At Gandy

Equipment Used Roll off	@ $	Hrs. worked	Total	
Box Rent ✓	@ $	Hrs. worked	Total	
Liner	@ $	Hrs. worked	Total	
Jet Out ✓	@ $	Hrs. worked	Total	
Disposal	@ $	Hrs. worked	Total	
Disposal Facility	@ $	Hrs. worked	Total	
Box No. Delivered #	@ $	Hrs. worked	Total	
Box No. Picked Up # 155	@ $	Hrs. worked	Total	
			Sub Total	
			Sales Tax	
			TOTAL	

Driver Nicholas Wally

Approved by

Superior Printing Service, Inc. - 104

N.M.E.D. – DP-1041

Gandy Marley, Inc.

P.O. BOX 1658 • ROSWELL, NM 88202

LOAD INSPECTION FORM 19961

Date of Receipt: 6-3-20 Time of Receipt 12:28 AM/PM Cell Placement: WST-10

Quantity 20 T/CY: yards Description: Soil Cuttings

Name/Address of Generator: Daniel B Stephens + Assoc 6020 Academy NE Suite Albuquerque, NM 8711

Origin of Materials (if different) 1905 N prince Clovis, NM

Transporter Name: R Marley SCC ID No.

Name of Laboratory Performing Sample Analysis

TCLP (EPA Method 1311) BTEX MTBE TPH Non-Hazardous ✓ Exempt ✓

Verification of No Free Liquids Paint Filter Liquids Test Performed

Verification of Property Completed Manifest ✓ Generator Manifest Number 2020-0005

As a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Generator represents and warrants that the waste material shipped herewith is exempt from the Resource Conservation and Recovery Act of 1976, as amended from time to time, 40 U.S.C. Section 6901, et seq., The New Mexico Health and Safety Code, section 361.001, et seq., and regulations related thereto, OR has been characterized as non-hazardous material by virtue of appropriate laboratory analysis done in accordance with EPA-approved testing methods.

Further, as a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form; Transporter represents and warrants that only the material delivered by Generator to Transporter is now delivered by Transporter to Gandy Marley, Inc.'s facility for disposal.

THIS WILL CERTIFY that the above Transporter loaded the material as represented on this Load Inspection Form at the above described location, and that it was tendered by the above described Generator. THIS WILL CERTIFY that no additional materials were added to this load, and that the material was delivered without incident.

Transporter: Nicholas Wells (Print Name) Nicholas Wells (Signature)

GMI Employee: Kimberly Murphy (Print Name) Kimberly Murphy (Signature)

Contaminated Soils Shipment Manifest

1. Manifest Document No. 2020 0005 — 2. Page ____ of ____

GENERATOR

3. Generator's Name and Mailing Address
Daniel B Stephens & Assoc.
6020 Academy NE
Suite 100
Albuquerque, NM 87109

4. Generator Phone No.

5. Generator Contact

6. Transporter 1 Company Name
R Marley

7. ID No.
94

8. Transporter 2 Company Name

9. ID No.

10. Designated Disposal Facility Name and Site Address
Gandy Marley, Inc. Contaminated Soils Landfarm
7200 East Second Street
PO Box 1658
Roswell, NM 88201

11. Facility Permit Number
DP-1041

12. Facility Phone No.
(575) 398-0107

13. Description of Waste	14. Containers No	14. Containers Type	15. Total Quantity	16. Unit Wt.Vol.
a. Soil Cuttings 1905 N Prince Clovis, NM DP 1961			20	yards
b.				
c.				

17. Special Handling Instructions and Additional Information

18. Generator's Certification: *I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state, and international laws.*

FURTHER. I represent and warrant that the waste material as described on this manifest is either exempt from the Resource Conservation and Recovery Act of 1976, OR has been characterized as non-hazardous material by virtue of appropriate laboratory analysis done in accordance with EPA-approved testing methods.

Printed/Typed Name	Signature	Date

TRANSPORTER

19. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date
Nicholas Wills	Nicholas Wills	06/03/20

20. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date

GMI

21. Discrepancy Information

22. Facility Owner or Operator Certification of receipt of materials described on this manifest except as noted in item 21.

Printed/Typed Name	Signature	Date
Kimberly Murphy	Kimberly Murphy	06/03/20

42-9-VB008

24-HOUR SERVICE, CALL
LOVINGTON 396-4948
TATUM 398-4960

GANDY MARLEY

P.O. BOX 1658 • ROSWELL, NEW MEXICO 88202

P.O. BOX 2140
LOVINGTON, NEW MEXICO 88260

37860

AUTHORIZATION FOR WORK

Date 6/10/2020 YOUR NO. 42

COMPANY DBS & A LEASE Former Y Station State Lead Battle

MAIL INVOICE TO _____ WELL _____

DESCRIPTION OF WORK

Pick up Box VB008 @ GM1
Transport to Clovis N.M. & drop off

Equipment Used Rolloff	@ $	Hrs. worked		Total
Box Rent	@ $	Hrs. worked		Total
Liner	@ $	Hrs. worked		Total
Jet Out	@ $	Hrs. worked		Total
Disposal	@ $	Hrs. worked		Total
Disposal Facility	@ $	Hrs. worked		Total
Box No. Delivered VB008	@ $	Hrs. worked		Total
Box No. Picked Up	@ $	Hrs. worked		Total

Sub Total _____

Sales Tax _____

TOTAL _____

Driver Chase Bishop Approved by _____

Superior Printing Service, Inc. - 104

24-HOUR SERVICE, CALL
LOVINGTON 396-4948
TATUM 398-4960

GANDY MARLEY

P.O. BOX 1658 · ROSWELL, NEW MEXICO 88202

P.O. BOX 2140
LOVINGTON, NEW MEXICO 88260

38064

AUTHORIZATION FOR WORK

Date 17 June 2020

YOUR NO. 42

COMPANY DBS+A LEASE

MAIL INVOICE TO WELL

DESCRIPTION OF WORK Picked up Pull VB008
Clovis, NM

Equipment Used Roll off	@ $ 110.00	Hrs. worked 3	Total	
Box Rent	@ $	Hrs. worked	Total	
Liner	@ $	Hrs. worked	Total	
Jet Out	@ $	Hrs. worked	Total	
Disposal	@ $	Hrs. worked	Total	
Disposal Facility	@ $	Hrs. worked	Total	
Box No. Delivered	@ $	Hrs. worked	Total	
Box No. Picked Up	@ $	Hrs. worked	Total	
			Sub Total	
			Sales Tax	
			TOTAL	

Driver Jason Walker

Approved by

Superior Printing Service, Inc. - 104

N.M.E.D. — DP-1041

Gandy Marley, Inc.

P.O. BOX 1658 • ROSWELL, NM 88202

LOAD INSPECTION FORM 20012

Date of Receipt: 6-17-20 Time of Receipt 1:27 AM (PM) Cell Placement: UST-10

Quantity 50 T/CY: gal Description: ~~Soil Cutting~~ Purge Water

Name/Address of Generator: Daniel B Stephens & Assoc, 6020 Academy NE Suite 100 Albuquerque, NM 87109

Origin of Materials (if different) 901 Ashton Street Clovis, NM

Transporter Name: R Marley Truck #42 SCC ID No.

Name of Laboratory Performing Sample Analysis

TCLP (EPA Method 1311) BTEX MTBE TPH Non-Hazardous ✓ Exempt ✓

Verification of No Free Liquids Paint Filter Liquids Test Performed

Verification of Property Completed Manifest ✓ Generator Manifest Number 2020-0006

As a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Generator represents and warrants that the waste material shipped herewith is exempt from the Resource Conservation and Recovery Act of 1976, as amended from time to time, 40 U.S.C. Section 6901, et seq., The New Mexico Health and Safety Code, section 361.001, et seq., and regulations related thereto, OR has been characterized as non-hazardous material by virtue of appropriate laboratory analysis done in accordance with EPA-approved testing methods.

Further, as a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Transporter represents and warrants that only the material delivered by Generator to Transporter is now delivered by Transporter to Gandy Marley, Inc.'s facility for disposal.

THIS WILL CERTIFY that the above Transporter loaded the material as represented on this Load Inspection Form at the above described location, and that it was tendered by the above described Generator. THIS WILL CERTIFY that no additional materials were added to this load, and that the material was delivered without incident.

Transporter: Jason Walker (Print Name) Jason Walker (Signature)

GMI Employee: Kimberly Murphy (Print Name) Kimberly Murphy (Signature)

Contaminated Soils Shipment Manifest

1. Manifest Document No. 2020000006

2. Page ____ of ____

GENERATOR

3. Generator's Name and Mailing Address
Daniel B Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109

4. Generator Phone No.

5. Generator Contact

6. Transporter 1 Company Name
R Marley Roswell, NM

7. ID No.
42

8. Transporter 2 Company Name

9. ID No.

10. Designated Disposal Facility Name and Site Address
Gandy Marley, Inc. Contaminated Soils Landfarm
7200 East Second Street
PO Box 1658
Roswell, NM 88201

11. Facility Permit Number
DP-1041

12. Facility Phone No.
(575) 398-0107

13. Description of Waste	14. Containers No	14. Containers Type	15. Total Quantity	16. Unit Wt.Vol.
a. 1901 Ashton Street Clovis, NM Purge Water DP 2012			50	gal
b.				
c.				

17. Special Handling Instructions and Additional Information

18. Generator's Certification: *I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state, and international laws.*

FURTHER. I represent and warrant that the waste material as described on this manifest is either exempt from the Resource Conservation and Recovery Act of 1976, OR has been characterized as non-hazardous material by virtue of appropriate laboratory analysis done in accordance with EPA-approved testing methods.

Printed/Typed Name	Signature	Date

TRANSPORTER

19. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date
Jason Walker	Jason Walker	06/17/20

20. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date

GMI

21. Discrepancy Information

22. Facility Owner or Operator Certification of receipt of materials described on this manifest except as noted in item 21.

Printed/Typed Name	Signature	Date
Kimberly Murphy	Kimberly Murphy	06/17/20

Appendix F

Well Survey Report

LYDICK
ENGINEERS & SURVEYORS
CLOVIS, NEW MEXICO

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

The following coordinates for monitor well **MW-15, MW-16, & MW-17** are located in **CITY OF CLOVIS, CURRY COUNTY, NEW MEXICO** are located on New Mexico State Plane East Zone Grid:

NAD 83:

MONITOR WELLS				
Monitor Well #	Northing	Easting	Top of Casing Elevation	Top of Concrete/Pavement Elevation
MW-15	1244212.54	884972.00	4268.58	4268.99
MW-16	1244755.74	884811.25	4276.23	4276.70
MW-17	1245101.07	884841.33	4277.42	4278.13

Robert C. Lydick

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

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

Appendix G

Sampling Protocol

Appendix G. Sampling Protocol

G.1 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 will be measured at intervals of no less than once per casing volume during purging of a well for sampling. The interface probe will be decontaminated before each measurement using a solution of deionized water and Liquinox (or equivalent) soap.

G.2 Groundwater Monitor Well Sampling

DBS&A will attempt to sample wells from the least contaminated to the most contaminated well using data from the previous sampling event. After collecting fluid levels and prior to sampling, each well will be purged. To ensure a fresh flow of groundwater into the well bore, a minimum of three casing volumes will be removed from each well. If a well is purged dry, it will be sampled when the well has recharged. Wells will be purged and sampled using a trailer-mounted Bennett pump in accordance with DBS&A standard operating procedures (SOPs). Water will be disposed on the ground within the site boundaries, preferably on an impervious surface and near the well of origin. Purge water must not contain NAPL, must not endanger public health or safety, and must not enter a surface water body or tributary, including an arroyo. Any purged fluids containing NAPL will be containerized for future disposal at a licensed facility.

Samples analyzed for volatile organic analytes (VOAs) will be collected in 40-milliliter (mL) glass bottles containing the appropriate preservative and capped with Teflon septa caps. VOA containers will be filled in a manner that prevents headspace in the vials. Samples analyzed for dissolved iron, lead, and manganese will be field-filtered with 0.45-micron disposable filters, collected in 250-mL plastic containers, and preserved with nitric acid to a pH of less than 2. Samples analyzed for nitrate and sulfate will be collected in 500-mL plastic containers containing no preservative.

Immediately after collection, the sample containers will be labeled and 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.

Appendix H

Laboratory Report

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

June 29, 2020

Tom Golden

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

RE: Former Y Station OrderNo.: 2006771

Dear Tom Golden:

Hall Environmental Analysis Laboratory received 28 sample(s) on 6/15/2020 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 don't hesitate to contact HEAL 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.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-1
Project: Former Y Station **Collection Date:** 6/9/2020 3:03:00 PM
Lab ID: 2006771-001 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.0093		µg/L	1	6/22/2020 7:50:05 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Toluene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Ethylbenzene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Naphthalene	ND	2.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
2-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Acetone	ND	10		µg/L	1	6/17/2020 5:03:37 PM	R69714
Bromobenzene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Bromodichloromethane	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Bromoform	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Bromomethane	ND	3.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
2-Butanone	ND	10		µg/L	1	6/17/2020 5:03:37 PM	R69714
Carbon disulfide	ND	10		µg/L	1	6/17/2020 5:03:37 PM	R69714
Carbon Tetrachloride	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Chlorobenzene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Chloroethane	ND	2.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Chloroform	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Chloromethane	ND	3.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
2-Chlorotoluene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
4-Chlorotoluene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
cis-1,2-DCE	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Dibromochloromethane	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Dibromomethane	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,1-Dichloroethane	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,1-Dichloroethene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,2-Dichloropropane	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714

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	Value above quantitation range
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-1
Project: Former Y Station **Collection Date:** 6/9/2020 3:03:00 PM
Lab ID: 2006771-001 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
2,2-Dichloropropane	ND	2.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,1-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Hexachlorobutadiene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
2-Hexanone	ND	10		µg/L	1	6/17/2020 5:03:37 PM	R69714
Isopropylbenzene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
4-Isopropyltoluene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
4-Methyl-2-pentanone	ND	10		µg/L	1	6/17/2020 5:03:37 PM	R69714
Methylene Chloride	ND	3.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
n-Butylbenzene	ND	3.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
n-Propylbenzene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
sec-Butylbenzene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Styrene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
tert-Butylbenzene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
trans-1,2-DCE	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Trichlorofluoromethane	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Vinyl chloride	ND	1.0		µg/L	1	6/17/2020 5:03:37 PM	R69714
Xylenes, Total	ND	1.5		µg/L	1	6/17/2020 5:03:37 PM	R69714
Surr: 1,2-Dichloroethane-d4	94.7	70-130		%Rec	1	6/17/2020 5:03:37 PM	R69714
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/17/2020 5:03:37 PM	R69714
Surr: Dibromofluoromethane	92.3	70-130		%Rec	1	6/17/2020 5:03:37 PM	R69714
Surr: Toluene-d8	101	70-130		%Rec	1	6/17/2020 5:03:37 PM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-2
Project: Former Y Station **Collection Date:** 6/9/2020 11:23:00 AM
Lab ID: 2006771-002 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.0094		µg/L	1	6/22/2020 8:05:36 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Toluene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Ethylbenzene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Naphthalene	ND	2.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
2-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Acetone	ND	10		µg/L	1	6/17/2020 6:34:48 PM	R69714
Bromobenzene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Bromodichloromethane	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Bromoform	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Bromomethane	ND	3.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
2-Butanone	ND	10		µg/L	1	6/17/2020 6:34:48 PM	R69714
Carbon disulfide	ND	10		µg/L	1	6/17/2020 6:34:48 PM	R69714
Carbon Tetrachloride	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Chlorobenzene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Chloroethane	ND	2.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Chloroform	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Chloromethane	ND	3.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
2-Chlorotoluene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
4-Chlorotoluene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
cis-1,2-DCE	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Dibromochloromethane	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Dibromomethane	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,1-Dichloroethane	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,1-Dichloroethene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,2-Dichloropropane	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-2
Project: Former Y Station **Collection Date:** 6/9/2020 11:23:00 AM
Lab ID: 2006771-002 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
2,2-Dichloropropane	ND	2.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,1-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Hexachlorobutadiene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
2-Hexanone	ND	10		µg/L	1	6/17/2020 6:34:48 PM	R69714
Isopropylbenzene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
4-Isopropyltoluene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
4-Methyl-2-pentanone	ND	10		µg/L	1	6/17/2020 6:34:48 PM	R69714
Methylene Chloride	ND	3.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
n-Butylbenzene	ND	3.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
n-Propylbenzene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
sec-Butylbenzene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Styrene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
tert-Butylbenzene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
trans-1,2-DCE	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Trichlorofluoromethane	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Vinyl chloride	ND	1.0		µg/L	1	6/17/2020 6:34:48 PM	R69714
Xylenes, Total	ND	1.5		µg/L	1	6/17/2020 6:34:48 PM	R69714
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%Rec	1	6/17/2020 6:34:48 PM	R69714
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	6/17/2020 6:34:48 PM	R69714
Surr: Dibromofluoromethane	95.3	70-130		%Rec	1	6/17/2020 6:34:48 PM	R69714
Surr: Toluene-d8	97.7	70-130		%Rec	1	6/17/2020 6:34:48 PM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-3
Project: Former Y Station **Collection Date:** 6/9/2020 9:32:00 AM
Lab ID: 2006771-003 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.0094		µg/L	1	6/22/2020 8:21:04 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Toluene	1.2	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Ethylbenzene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Naphthalene	ND	2.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
2-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Acetone	ND	10		µg/L	1	6/17/2020 7:05:01 PM	R69714
Bromobenzene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Bromodichloromethane	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Bromoform	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Bromomethane	ND	3.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
2-Butanone	ND	10		µg/L	1	6/17/2020 7:05:01 PM	R69714
Carbon disulfide	ND	10		µg/L	1	6/17/2020 7:05:01 PM	R69714
Carbon Tetrachloride	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Chlorobenzene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Chloroethane	ND	2.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Chloroform	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Chloromethane	ND	3.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
2-Chlorotoluene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
4-Chlorotoluene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
cis-1,2-DCE	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Dibromochloromethane	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Dibromomethane	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,1-Dichloroethane	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,1-Dichloroethene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,2-Dichloropropane	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714

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

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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-3
Project: Former Y Station **Collection Date:** 6/9/2020 9:32:00 AM
Lab ID: 2006771-003 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
2,2-Dichloropropane	ND	2.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,1-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Hexachlorobutadiene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
2-Hexanone	ND	10		µg/L	1	6/17/2020 7:05:01 PM	R69714
Isopropylbenzene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
4-Isopropyltoluene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
4-Methyl-2-pentanone	ND	10		µg/L	1	6/17/2020 7:05:01 PM	R69714
Methylene Chloride	ND	3.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
n-Butylbenzene	ND	3.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
n-Propylbenzene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
sec-Butylbenzene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Styrene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
tert-Butylbenzene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
trans-1,2-DCE	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Trichlorofluoromethane	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Vinyl chloride	ND	1.0		µg/L	1	6/17/2020 7:05:01 PM	R69714
Xylenes, Total	ND	1.5		µg/L	1	6/17/2020 7:05:01 PM	R69714
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%Rec	1	6/17/2020 7:05:01 PM	R69714
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	6/17/2020 7:05:01 PM	R69714
Surr: Dibromofluoromethane	93.0	70-130		%Rec	1	6/17/2020 7:05:01 PM	R69714
Surr: Toluene-d8	103	70-130		%Rec	1	6/17/2020 7:05:01 PM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-4
Project: Former Y Station **Collection Date:** 6/10/2020 6:30:00 PM
Lab ID: 2006771-004 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.0093		µg/L	1	6/22/2020 8:36:33 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	2.2	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Toluene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Ethylbenzene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,2-Dichloroethane (EDC)	5.0	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Naphthalene	ND	2.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
2-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Acetone	ND	10		µg/L	1	6/17/2020 7:35:10 PM	R69714
Bromobenzene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Bromodichloromethane	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Bromoform	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Bromomethane	ND	3.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
2-Butanone	ND	10		µg/L	1	6/17/2020 7:35:10 PM	R69714
Carbon disulfide	ND	10		µg/L	1	6/17/2020 7:35:10 PM	R69714
Carbon Tetrachloride	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Chlorobenzene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Chloroethane	ND	2.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Chloroform	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Chloromethane	ND	3.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
2-Chlorotoluene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
4-Chlorotoluene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
cis-1,2-DCE	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Dibromochloromethane	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Dibromomethane	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,1-Dichloroethane	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,1-Dichloroethene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,2-Dichloropropane	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-4
Project: Former Y Station **Collection Date:** 6/10/2020 6:30:00 PM
Lab ID: 2006771-004 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
2,2-Dichloropropane	ND	2.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,1-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Hexachlorobutadiene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
2-Hexanone	ND	10		µg/L	1	6/17/2020 7:35:10 PM	R69714
Isopropylbenzene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
4-Isopropyltoluene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
4-Methyl-2-pentanone	ND	10		µg/L	1	6/17/2020 7:35:10 PM	R69714
Methylene Chloride	ND	3.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
n-Butylbenzene	ND	3.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
n-Propylbenzene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
sec-Butylbenzene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Styrene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
tert-Butylbenzene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
trans-1,2-DCE	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Trichlorofluoromethane	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Vinyl chloride	ND	1.0		µg/L	1	6/17/2020 7:35:10 PM	R69714
Xylenes, Total	ND	1.5		µg/L	1	6/17/2020 7:35:10 PM	R69714
Surr: 1,2-Dichloroethane-d4	98.7	70-130		%Rec	1	6/17/2020 7:35:10 PM	R69714
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	6/17/2020 7:35:10 PM	R69714
Surr: Dibromofluoromethane	91.4	70-130		%Rec	1	6/17/2020 7:35:10 PM	R69714
Surr: Toluene-d8	100	70-130		%Rec	1	6/17/2020 7:35:10 PM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-6
Project: Former Y Station **Collection Date:** 6/9/2020 1:42:00 PM
Lab ID: 2006771-005 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.0095		µg/L	1	6/22/2020 9:38:20 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Toluene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Ethylbenzene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Naphthalene	ND	2.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
2-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Acetone	ND	10		µg/L	1	6/17/2020 8:05:11 PM	R69714
Bromobenzene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Bromodichloromethane	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Bromoform	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Bromomethane	ND	3.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
2-Butanone	ND	10		µg/L	1	6/17/2020 8:05:11 PM	R69714
Carbon disulfide	ND	10		µg/L	1	6/17/2020 8:05:11 PM	R69714
Carbon Tetrachloride	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Chlorobenzene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Chloroethane	ND	2.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Chloroform	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Chloromethane	ND	3.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
2-Chlorotoluene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
4-Chlorotoluene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
cis-1,2-DCE	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Dibromochloromethane	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Dibromomethane	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,1-Dichloroethane	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,1-Dichloroethene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,2-Dichloropropane	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-6
Project: Former Y Station **Collection Date:** 6/9/2020 1:42:00 PM
Lab ID: 2006771-005 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
2,2-Dichloropropane	ND	2.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,1-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Hexachlorobutadiene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
2-Hexanone	ND	10		µg/L	1	6/17/2020 8:05:11 PM	R69714
Isopropylbenzene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
4-Isopropyltoluene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
4-Methyl-2-pentanone	ND	10		µg/L	1	6/17/2020 8:05:11 PM	R69714
Methylene Chloride	ND	3.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
n-Butylbenzene	ND	3.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
n-Propylbenzene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
sec-Butylbenzene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Styrene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
tert-Butylbenzene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
trans-1,2-DCE	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Trichlorofluoromethane	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Vinyl chloride	ND	1.0		µg/L	1	6/17/2020 8:05:11 PM	R69714
Xylenes, Total	ND	1.5		µg/L	1	6/17/2020 8:05:11 PM	R69714
Surr: 1,2-Dichloroethane-d4	95.4	70-130		%Rec	1	6/17/2020 8:05:11 PM	R69714
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/17/2020 8:05:11 PM	R69714
Surr: Dibromofluoromethane	91.0	70-130		%Rec	1	6/17/2020 8:05:11 PM	R69714
Surr: Toluene-d8	102	70-130		%Rec	1	6/17/2020 8:05:11 PM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-7
Project: Former Y Station **Collection Date:** 6/12/2020 11:44:00 AM
Lab ID: 2006771-006 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	0.86	0.093		µg/L	10	6/22/2020 9:53:45 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	240	20		µg/L	20	6/17/2020 8:34:59 PM	R69714
Toluene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Ethylbenzene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,2,4-Trimethylbenzene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,2-Dichloroethane (EDC)	65	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Naphthalene	ND	4.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1-Methylnaphthalene	ND	8.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
2-Methylnaphthalene	ND	8.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Acetone	ND	20		µg/L	2	6/17/2020 9:04:38 PM	R69714
Bromobenzene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Bromodichloromethane	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Bromoform	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Bromomethane	ND	6.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
2-Butanone	ND	20		µg/L	2	6/17/2020 9:04:38 PM	R69714
Carbon disulfide	ND	20		µg/L	2	6/17/2020 9:04:38 PM	R69714
Carbon Tetrachloride	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Chlorobenzene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Chloroethane	ND	4.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Chloroform	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Chloromethane	ND	6.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
2-Chlorotoluene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
4-Chlorotoluene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
cis-1,2-DCE	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Dibromochloromethane	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Dibromomethane	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,2-Dichlorobenzene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,3-Dichlorobenzene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,4-Dichlorobenzene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Dichlorodifluoromethane	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,1-Dichloroethane	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,1-Dichloroethene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,2-Dichloropropane	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-7
Project: Former Y Station **Collection Date:** 6/12/2020 11:44:00 AM
Lab ID: 2006771-006 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
2,2-Dichloropropane	ND	4.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,1-Dichloropropene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Hexachlorobutadiene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
2-Hexanone	ND	20		µg/L	2	6/17/2020 9:04:38 PM	R69714
Isopropylbenzene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
4-Isopropyltoluene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
4-Methyl-2-pentanone	ND	20		µg/L	2	6/17/2020 9:04:38 PM	R69714
Methylene Chloride	ND	6.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
n-Butylbenzene	ND	6.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
n-Propylbenzene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
sec-Butylbenzene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Styrene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
tert-Butylbenzene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
trans-1,2-DCE	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,1,1-Trichloroethane	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,1,2-Trichloroethane	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Trichloroethene (TCE)	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Trichlorofluoromethane	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
1,2,3-Trichloropropane	ND	4.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Vinyl chloride	ND	2.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Xylenes, Total	ND	3.0		µg/L	2	6/17/2020 9:04:38 PM	R69714
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	2	6/17/2020 9:04:38 PM	R69714
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	2	6/17/2020 9:04:38 PM	R69714
Surr: Dibromofluoromethane	94.5	70-130		%Rec	2	6/17/2020 9:04:38 PM	R69714
Surr: Toluene-d8	105	70-130		%Rec	2	6/17/2020 9:04:38 PM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-7R
Project: Former Y Station **Collection Date:** 6/11/2020 9:46:00 AM
Lab ID: 2006771-007 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	0.36	0.093		µg/L	10	6/22/2020 10:09:12 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	160	10		µg/L	10	6/18/2020 2:33:25 PM	W69735
Toluene	2.5	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Ethylbenzene	7.1	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,2,4-Trimethylbenzene	5.2	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,3,5-Trimethylbenzene	2.7	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,2-Dichloroethane (EDC)	50	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Naphthalene	4.1	2.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
2-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Acetone	ND	10		µg/L	1	6/17/2020 9:34:13 PM	R69714
Bromobenzene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Bromodichloromethane	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Bromoform	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Bromomethane	ND	3.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
2-Butanone	ND	10		µg/L	1	6/17/2020 9:34:13 PM	R69714
Carbon disulfide	ND	10		µg/L	1	6/17/2020 9:34:13 PM	R69714
Carbon Tetrachloride	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Chlorobenzene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Chloroethane	ND	2.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Chloroform	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Chloromethane	ND	3.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
2-Chlorotoluene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
4-Chlorotoluene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
cis-1,2-DCE	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Dibromochloromethane	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Dibromomethane	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,1-Dichloroethane	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,1-Dichloroethene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,2-Dichloropropane	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-7R
Project: Former Y Station **Collection Date:** 6/11/2020 9:46:00 AM
Lab ID: 2006771-007 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
2,2-Dichloropropane	ND	2.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,1-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Hexachlorobutadiene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
2-Hexanone	ND	10		µg/L	1	6/17/2020 9:34:13 PM	R69714
Isopropylbenzene	1.7	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
4-Isopropyltoluene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
4-Methyl-2-pentanone	ND	10		µg/L	1	6/17/2020 9:34:13 PM	R69714
Methylene Chloride	ND	3.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
n-Butylbenzene	ND	3.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
n-Propylbenzene	1.2	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
sec-Butylbenzene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Styrene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
tert-Butylbenzene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
trans-1,2-DCE	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Trichlorofluoromethane	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Vinyl chloride	ND	1.0		µg/L	1	6/17/2020 9:34:13 PM	R69714
Xylenes, Total	13	1.5		µg/L	1	6/17/2020 9:34:13 PM	R69714
Surr: 1,2-Dichloroethane-d4	92.2	70-130		%Rec	1	6/17/2020 9:34:13 PM	R69714
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/17/2020 9:34:13 PM	R69714
Surr: Dibromofluoromethane	92.0	70-130		%Rec	1	6/17/2020 9:34:13 PM	R69714
Surr: Toluene-d8	100	70-130		%Rec	1	6/17/2020 9:34:13 PM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-8
Project: Former Y Station **Collection Date:** 6/13/2020 5:48:00 PM
Lab ID: 2006771-008 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	0.72	0.094		µg/L	10	6/23/2020 7:26:58 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	7000	200		µg/L	200	6/18/2020 3:02:05 PM	W69735
Toluene	7900	200		µg/L	200	6/18/2020 3:02:05 PM	W69735
Ethylbenzene	700	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,2,4-Trimethylbenzene	350	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,3,5-Trimethylbenzene	120	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,2-Dichloroethane (EDC)	190	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
Naphthalene	180	40		µg/L	20	6/18/2020 3:30:46 PM	W69735
1-Methylnaphthalene	ND	80		µg/L	20	6/18/2020 3:30:46 PM	W69735
2-Methylnaphthalene	ND	80		µg/L	20	6/18/2020 3:30:46 PM	W69735
Acetone	360	200		µg/L	20	6/18/2020 3:30:46 PM	W69735
Bromobenzene	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
Bromodichloromethane	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
Bromoform	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
Bromomethane	ND	60		µg/L	20	6/18/2020 3:30:46 PM	W69735
2-Butanone	420	200		µg/L	20	6/18/2020 3:30:46 PM	W69735
Carbon disulfide	ND	200		µg/L	20	6/18/2020 3:30:46 PM	W69735
Carbon Tetrachloride	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
Chlorobenzene	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
Chloroethane	ND	40		µg/L	20	6/18/2020 3:30:46 PM	W69735
Chloroform	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
Chloromethane	ND	60		µg/L	20	6/18/2020 3:30:46 PM	W69735
2-Chlorotoluene	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
4-Chlorotoluene	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
cis-1,2-DCE	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
cis-1,3-Dichloropropene	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	6/18/2020 3:30:46 PM	W69735
Dibromochloromethane	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
Dibromomethane	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,2-Dichlorobenzene	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,3-Dichlorobenzene	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,4-Dichlorobenzene	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
Dichlorodifluoromethane	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,1-Dichloroethane	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,1-Dichloroethene	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,2-Dichloropropane	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-8
Project: Former Y Station **Collection Date:** 6/13/2020 5:48:00 PM
Lab ID: 2006771-008 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
2,2-Dichloropropane	ND	40		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,1-Dichloropropene	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
Hexachlorobutadiene	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
2-Hexanone	270	200		µg/L	20	6/18/2020 3:30:46 PM	W69735
Isopropylbenzene	30	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
4-Isopropyltoluene	21	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
4-Methyl-2-pentanone	ND	200		µg/L	20	6/18/2020 3:30:46 PM	W69735
Methylene Chloride	ND	60		µg/L	20	6/18/2020 3:30:46 PM	W69735
n-Butylbenzene	ND	60		µg/L	20	6/18/2020 3:30:46 PM	W69735
n-Propylbenzene	73	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
sec-Butylbenzene	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
Styrene	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
tert-Butylbenzene	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	6/18/2020 3:30:46 PM	W69735
Tetrachloroethene (PCE)	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
trans-1,2-DCE	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
trans-1,3-Dichloropropene	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,2,3-Trichlorobenzene	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,2,4-Trichlorobenzene	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,1,1-Trichloroethane	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,1,2-Trichloroethane	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
Trichloroethene (TCE)	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
Trichlorofluoromethane	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
1,2,3-Trichloropropane	ND	40		µg/L	20	6/18/2020 3:30:46 PM	W69735
Vinyl chloride	ND	20		µg/L	20	6/18/2020 3:30:46 PM	W69735
Xylenes, Total	2500	30		µg/L	20	6/18/2020 3:30:46 PM	W69735
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	20	6/18/2020 3:30:46 PM	W69735
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	20	6/18/2020 3:30:46 PM	W69735
Surr: Dibromofluoromethane	108	70-130		%Rec	20	6/18/2020 3:30:46 PM	W69735
Surr: Toluene-d8	108	70-130		%Rec	20	6/18/2020 3:30:46 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-9
Project: Former Y Station **Collection Date:** 6/9/2020 5:22:00 PM
Lab ID: 2006771-009 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.0093		µg/L	1	6/22/2020 10:40:05 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Toluene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Ethylbenzene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Naphthalene	ND	2.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
2-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Acetone	ND	10		µg/L	1	6/17/2020 11:02:38 PM	R69714
Bromobenzene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Bromodichloromethane	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Bromoform	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Bromomethane	ND	3.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
2-Butanone	ND	10		µg/L	1	6/17/2020 11:02:38 PM	R69714
Carbon disulfide	ND	10		µg/L	1	6/17/2020 11:02:38 PM	R69714
Carbon Tetrachloride	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Chlorobenzene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Chloroethane	ND	2.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Chloroform	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Chloromethane	ND	3.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
2-Chlorotoluene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
4-Chlorotoluene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
cis-1,2-DCE	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Dibromochloromethane	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Dibromomethane	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,1-Dichloroethane	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,1-Dichloroethene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,2-Dichloropropane	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-9
Project: Former Y Station **Collection Date:** 6/9/2020 5:22:00 PM
Lab ID: 2006771-009 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
2,2-Dichloropropane	ND	2.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,1-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Hexachlorobutadiene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
2-Hexanone	ND	10		µg/L	1	6/17/2020 11:02:38 PM	R69714
Isopropylbenzene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
4-Isopropyltoluene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
4-Methyl-2-pentanone	ND	10		µg/L	1	6/17/2020 11:02:38 PM	R69714
Methylene Chloride	ND	3.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
n-Butylbenzene	ND	3.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
n-Propylbenzene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
sec-Butylbenzene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Styrene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
tert-Butylbenzene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
trans-1,2-DCE	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Trichlorofluoromethane	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Vinyl chloride	ND	1.0		µg/L	1	6/17/2020 11:02:38 PM	R69714
Xylenes, Total	ND	1.5		µg/L	1	6/17/2020 11:02:38 PM	R69714
Surr: 1,2-Dichloroethane-d4	98.3	70-130		%Rec	1	6/17/2020 11:02:38 PM	R69714
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/17/2020 11:02:38 PM	R69714
Surr: Dibromofluoromethane	96.9	70-130		%Rec	1	6/17/2020 11:02:38 PM	R69714
Surr: Toluene-d8	96.8	70-130		%Rec	1	6/17/2020 11:02:38 PM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-10
Project: Former Y Station **Collection Date:** 6/10/2020 11:58:00 AM
Lab ID: 2006771-010 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.0093		µg/L	1	6/22/2020 10:55:32 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Toluene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Ethylbenzene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Naphthalene	ND	2.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
2-Methylnaphthalene	ND	4.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Acetone	ND	10		µg/L	1	6/17/2020 11:32:05 PM	R69714
Bromobenzene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Bromodichloromethane	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Bromoform	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Bromomethane	ND	3.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
2-Butanone	ND	10		µg/L	1	6/17/2020 11:32:05 PM	R69714
Carbon disulfide	ND	10		µg/L	1	6/17/2020 11:32:05 PM	R69714
Carbon Tetrachloride	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Chlorobenzene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Chloroethane	ND	2.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Chloroform	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Chloromethane	ND	3.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
2-Chlorotoluene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
4-Chlorotoluene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
cis-1,2-DCE	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Dibromochloromethane	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Dibromomethane	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,1-Dichloroethane	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,1-Dichloroethene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,2-Dichloropropane	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-10
Project: Former Y Station **Collection Date:** 6/10/2020 11:58:00 AM
Lab ID: 2006771-010 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
2,2-Dichloropropane	ND	2.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,1-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Hexachlorobutadiene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
2-Hexanone	ND	10		µg/L	1	6/17/2020 11:32:05 PM	R69714
Isopropylbenzene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
4-Isopropyltoluene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
4-Methyl-2-pentanone	ND	10		µg/L	1	6/17/2020 11:32:05 PM	R69714
Methylene Chloride	ND	3.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
n-Butylbenzene	ND	3.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
n-Propylbenzene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
sec-Butylbenzene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Styrene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
tert-Butylbenzene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
trans-1,2-DCE	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Trichlorofluoromethane	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Vinyl chloride	ND	1.0		µg/L	1	6/17/2020 11:32:05 PM	R69714
Xylenes, Total	ND	1.5		µg/L	1	6/17/2020 11:32:05 PM	R69714
Surr: 1,2-Dichloroethane-d4	98.0	70-130		%Rec	1	6/17/2020 11:32:05 PM	R69714
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	6/17/2020 11:32:05 PM	R69714
Surr: Dibromofluoromethane	97.4	70-130		%Rec	1	6/17/2020 11:32:05 PM	R69714
Surr: Toluene-d8	103	70-130		%Rec	1	6/17/2020 11:32:05 PM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-11
Project: Former Y Station **Collection Date:** 6/13/2020 3:23:00 PM
Lab ID: 2006771-011 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	2.9	0.47		µg/L	50	6/23/2020 7:42:32 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	3400	100		µg/L	100	6/18/2020 12:01:40 AM	R69714
Toluene	8.9	5.0		µg/L	10	6/18/2020 12:31:10 AM	R69714
Ethylbenzene	300	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,2,4-Trimethylbenzene	200	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,3,5-Trimethylbenzene	49	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,2-Dichloroethane (EDC)	150	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
Naphthalene	39	20		µg/L	10	6/18/2020 12:31:10 AM	R69714
1-Methylnaphthalene	ND	40		µg/L	10	6/18/2020 12:31:10 AM	R69714
2-Methylnaphthalene	ND	40		µg/L	10	6/18/2020 12:31:10 AM	R69714
Acetone	ND	100		µg/L	10	6/18/2020 12:31:10 AM	R69714
Bromobenzene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
Bromodichloromethane	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
Bromoform	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
Bromomethane	ND	30		µg/L	10	6/18/2020 12:31:10 AM	R69714
2-Butanone	ND	100		µg/L	10	6/18/2020 12:31:10 AM	R69714
Carbon disulfide	ND	100		µg/L	10	6/18/2020 12:31:10 AM	R69714
Carbon Tetrachloride	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
Chlorobenzene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
Chloroethane	ND	20		µg/L	10	6/18/2020 12:31:10 AM	R69714
Chloroform	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
Chloromethane	ND	30		µg/L	10	6/18/2020 12:31:10 AM	R69714
2-Chlorotoluene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
4-Chlorotoluene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
cis-1,2-DCE	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/18/2020 12:31:10 AM	R69714
Dibromochloromethane	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
Dibromomethane	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,2-Dichlorobenzene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,3-Dichlorobenzene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,4-Dichlorobenzene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
Dichlorodifluoromethane	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,1-Dichloroethane	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,1-Dichloroethene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,2-Dichloropropane	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-11
Project: Former Y Station **Collection Date:** 6/13/2020 3:23:00 PM
Lab ID: 2006771-011 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
2,2-Dichloropropane	ND	20		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,1-Dichloropropene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
Hexachlorobutadiene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
2-Hexanone	ND	100		µg/L	10	6/18/2020 12:31:10 AM	R69714
Isopropylbenzene	11	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
4-Isopropyltoluene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
4-Methyl-2-pentanone	ND	100		µg/L	10	6/18/2020 12:31:10 AM	R69714
Methylene Chloride	ND	30		µg/L	10	6/18/2020 12:31:10 AM	R69714
n-Butylbenzene	ND	30		µg/L	10	6/18/2020 12:31:10 AM	R69714
n-Propylbenzene	27	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
sec-Butylbenzene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
Styrene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
tert-Butylbenzene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/18/2020 12:31:10 AM	R69714
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
trans-1,2-DCE	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,1,1-Trichloroethane	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,1,2-Trichloroethane	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
Trichloroethene (TCE)	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
Trichlorofluoromethane	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
1,2,3-Trichloropropane	ND	20		µg/L	10	6/18/2020 12:31:10 AM	R69714
Vinyl chloride	ND	10		µg/L	10	6/18/2020 12:31:10 AM	R69714
Xylenes, Total	620	15		µg/L	10	6/18/2020 12:31:10 AM	R69714
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	10	6/18/2020 12:31:10 AM	R69714
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	10	6/18/2020 12:31:10 AM	R69714
Surr: Dibromofluoromethane	98.5	70-130		%Rec	10	6/18/2020 12:31:10 AM	R69714
Surr: Toluene-d8	101	70-130		%Rec	10	6/18/2020 12:31:10 AM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-12
Project: Former Y Station **Collection Date:** 6/12/2020 4:08:00 PM
Lab ID: 2006771-012 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	0.50	0.095		µg/L	10	6/23/2020 8:13:21 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	1400	100		µg/L	100	6/18/2020 1:00:30 AM	R69714
Toluene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
Ethylbenzene	10	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,2,4-Trimethylbenzene	35	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,3,5-Trimethylbenzene	18	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,2-Dichloroethane (EDC)	85	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
Naphthalene	ND	20		µg/L	10	6/18/2020 1:29:55 AM	R69714
1-Methylnaphthalene	ND	40		µg/L	10	6/18/2020 1:29:55 AM	R69714
2-Methylnaphthalene	ND	40		µg/L	10	6/18/2020 1:29:55 AM	R69714
Acetone	ND	100		µg/L	10	6/18/2020 1:29:55 AM	R69714
Bromobenzene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
Bromodichloromethane	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
Bromoform	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
Bromomethane	ND	30		µg/L	10	6/18/2020 1:29:55 AM	R69714
2-Butanone	ND	100		µg/L	10	6/18/2020 1:29:55 AM	R69714
Carbon disulfide	ND	100		µg/L	10	6/18/2020 1:29:55 AM	R69714
Carbon Tetrachloride	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
Chlorobenzene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
Chloroethane	ND	20		µg/L	10	6/18/2020 1:29:55 AM	R69714
Chloroform	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
Chloromethane	ND	30		µg/L	10	6/18/2020 1:29:55 AM	R69714
2-Chlorotoluene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
4-Chlorotoluene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
cis-1,2-DCE	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/18/2020 1:29:55 AM	R69714
Dibromochloromethane	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
Dibromomethane	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,2-Dichlorobenzene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,3-Dichlorobenzene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,4-Dichlorobenzene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
Dichlorodifluoromethane	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,1-Dichloroethane	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,1-Dichloroethene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,2-Dichloropropane	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-12
Project: Former Y Station **Collection Date:** 6/12/2020 4:08:00 PM
Lab ID: 2006771-012 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
1,3-Dichloropropane	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
2,2-Dichloropropane	ND	20		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,1-Dichloropropene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
Hexachlorobutadiene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
2-Hexanone	ND	100		µg/L	10	6/18/2020 1:29:55 AM	R69714
Isopropylbenzene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
4-Isopropyltoluene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
4-Methyl-2-pentanone	ND	100		µg/L	10	6/18/2020 1:29:55 AM	R69714
Methylene Chloride	ND	30		µg/L	10	6/18/2020 1:29:55 AM	R69714
n-Butylbenzene	ND	30		µg/L	10	6/18/2020 1:29:55 AM	R69714
n-Propylbenzene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
sec-Butylbenzene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
Styrene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
tert-Butylbenzene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/18/2020 1:29:55 AM	R69714
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
trans-1,2-DCE	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,1,1-Trichloroethane	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,1,2-Trichloroethane	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
Trichloroethene (TCE)	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
Trichlorofluoromethane	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
1,2,3-Trichloropropane	ND	20		µg/L	10	6/18/2020 1:29:55 AM	R69714
Vinyl chloride	ND	10		µg/L	10	6/18/2020 1:29:55 AM	R69714
Xylenes, Total	130	15		µg/L	10	6/18/2020 1:29:55 AM	R69714
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	10	6/18/2020 1:29:55 AM	R69714
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	10	6/18/2020 1:29:55 AM	R69714
Surr: Dibromofluoromethane	98.7	70-130		%Rec	10	6/18/2020 1:29:55 AM	R69714
Surr: Toluene-d8	101	70-130		%Rec	10	6/18/2020 1:29:55 AM	R69714

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-13
Project: Former Y Station **Collection Date:** 6/12/2020 10:27:00 AM
Lab ID: 2006771-013 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	0.035	0.0093		µg/L	1	6/22/2020 11:42:02 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	79	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Toluene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Ethylbenzene	4.4	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,2,4-Trimethylbenzene	5.9	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,2-Dichloroethane (EDC)	6.6	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Naphthalene	ND	4.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1-Methylnaphthalene	ND	8.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
2-Methylnaphthalene	ND	8.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Acetone	ND	20		µg/L	2	6/18/2020 4:56:54 PM	W69735
Bromobenzene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Bromodichloromethane	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Bromoform	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Bromomethane	ND	6.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
2-Butanone	ND	20		µg/L	2	6/18/2020 4:56:54 PM	W69735
Carbon disulfide	ND	20		µg/L	2	6/18/2020 4:56:54 PM	W69735
Carbon Tetrachloride	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Chlorobenzene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Chloroethane	ND	4.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Chloroform	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Chloromethane	ND	6.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
2-Chlorotoluene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
4-Chlorotoluene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
cis-1,2-DCE	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Dibromochloromethane	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Dibromomethane	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,2-Dichlorobenzene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,3-Dichlorobenzene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,4-Dichlorobenzene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Dichlorodifluoromethane	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,1-Dichloroethane	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,1-Dichloroethene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,2-Dichloropropane	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-13
Project: Former Y Station **Collection Date:** 6/12/2020 10:27:00 AM
Lab ID: 2006771-013 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
2,2-Dichloropropane	ND	4.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,1-Dichloropropene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Hexachlorobutadiene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
2-Hexanone	ND	20		µg/L	2	6/18/2020 4:56:54 PM	W69735
Isopropylbenzene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
4-Isopropyltoluene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
4-Methyl-2-pentanone	ND	20		µg/L	2	6/18/2020 4:56:54 PM	W69735
Methylene Chloride	ND	6.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
n-Butylbenzene	ND	6.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
n-Propylbenzene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
sec-Butylbenzene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Styrene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
tert-Butylbenzene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
trans-1,2-DCE	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,1,1-Trichloroethane	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,1,2-Trichloroethane	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Trichloroethene (TCE)	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Trichlorofluoromethane	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
1,2,3-Trichloropropane	ND	4.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Vinyl chloride	ND	2.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Xylenes, Total	13	3.0		µg/L	2	6/18/2020 4:56:54 PM	W69735
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	2	6/18/2020 4:56:54 PM	W69735
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	2	6/18/2020 4:56:54 PM	W69735
Surr: Dibromofluoromethane	102	70-130		%Rec	2	6/18/2020 4:56:54 PM	W69735
Surr: Toluene-d8	114	70-130		%Rec	2	6/18/2020 4:56:54 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-14
Project: Former Y Station **Collection Date:** 6/10/2020 3:53:00 PM
Lab ID: 2006771-014 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.0094		µg/L	1	6/22/2020 11:57:27 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Toluene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Ethylbenzene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Naphthalene	ND	2.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1-Methylnaphthalene	ND	4.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
2-Methylnaphthalene	ND	4.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Acetone	ND	10		µg/L	1	6/18/2020 6:23:06 PM	W69735
Bromobenzene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Bromodichloromethane	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Bromoform	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Bromomethane	ND	3.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
2-Butanone	ND	10		µg/L	1	6/18/2020 6:23:06 PM	W69735
Carbon disulfide	ND	10		µg/L	1	6/18/2020 6:23:06 PM	W69735
Carbon Tetrachloride	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Chlorobenzene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Chloroethane	ND	2.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Chloroform	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Chloromethane	ND	3.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
2-Chlorotoluene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
4-Chlorotoluene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
cis-1,2-DCE	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Dibromochloromethane	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Dibromomethane	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,1-Dichloroethane	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,1-Dichloroethene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,2-Dichloropropane	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-14
Project: Former Y Station **Collection Date:** 6/10/2020 3:53:00 PM
Lab ID: 2006771-014 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
2,2-Dichloropropane	ND	2.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,1-Dichloropropene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Hexachlorobutadiene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
2-Hexanone	ND	10		µg/L	1	6/18/2020 6:23:06 PM	W69735
Isopropylbenzene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
4-Isopropyltoluene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
4-Methyl-2-pentanone	ND	10		µg/L	1	6/18/2020 6:23:06 PM	W69735
Methylene Chloride	ND	3.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
n-Butylbenzene	ND	3.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
n-Propylbenzene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
sec-Butylbenzene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Styrene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
tert-Butylbenzene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
trans-1,2-DCE	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Trichlorofluoromethane	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Vinyl chloride	ND	1.0		µg/L	1	6/18/2020 6:23:06 PM	W69735
Xylenes, Total	ND	1.5		µg/L	1	6/18/2020 6:23:06 PM	W69735
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	6/18/2020 6:23:06 PM	W69735
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/18/2020 6:23:06 PM	W69735
Surr: Dibromofluoromethane	107	70-130		%Rec	1	6/18/2020 6:23:06 PM	W69735
Surr: Toluene-d8	111	70-130		%Rec	1	6/18/2020 6:23:06 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-15
Project: Former Y Station **Collection Date:** 6/11/2020 6:41:00 PM
Lab ID: 2006771-015 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.0094		µg/L	1	6/23/2020 12:28:24 AM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Toluene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Ethylbenzene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Naphthalene	ND	2.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1-Methylnaphthalene	ND	4.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
2-Methylnaphthalene	ND	4.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Acetone	ND	10		µg/L	1	6/18/2020 6:51:49 PM	W69735
Bromobenzene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Bromodichloromethane	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Bromoform	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Bromomethane	ND	3.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
2-Butanone	ND	10		µg/L	1	6/18/2020 6:51:49 PM	W69735
Carbon disulfide	ND	10		µg/L	1	6/18/2020 6:51:49 PM	W69735
Carbon Tetrachloride	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Chlorobenzene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Chloroethane	ND	2.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Chloroform	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Chloromethane	ND	3.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
2-Chlorotoluene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
4-Chlorotoluene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
cis-1,2-DCE	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Dibromochloromethane	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Dibromomethane	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,1-Dichloroethane	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,1-Dichloroethene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,2-Dichloropropane	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-15
Project: Former Y Station **Collection Date:** 6/11/2020 6:41:00 PM
Lab ID: 2006771-015 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
2,2-Dichloropropane	ND	2.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,1-Dichloropropene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Hexachlorobutadiene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
2-Hexanone	ND	10		µg/L	1	6/18/2020 6:51:49 PM	W69735
Isopropylbenzene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
4-Isopropyltoluene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
4-Methyl-2-pentanone	ND	10		µg/L	1	6/18/2020 6:51:49 PM	W69735
Methylene Chloride	ND	3.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
n-Butylbenzene	ND	3.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
n-Propylbenzene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
sec-Butylbenzene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Styrene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
tert-Butylbenzene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
trans-1,2-DCE	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Trichlorofluoromethane	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Vinyl chloride	ND	1.0		µg/L	1	6/18/2020 6:51:49 PM	W69735
Xylenes, Total	ND	1.5		µg/L	1	6/18/2020 6:51:49 PM	W69735
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	6/18/2020 6:51:49 PM	W69735
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/18/2020 6:51:49 PM	W69735
Surr: Dibromofluoromethane	103	70-130		%Rec	1	6/18/2020 6:51:49 PM	W69735
Surr: Toluene-d8	103	70-130		%Rec	1	6/18/2020 6:51:49 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-16
Project: Former Y Station **Collection Date:** 6/11/2020 12:41:00 PM
Lab ID: 2006771-016 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	0.82	0.19		µg/L	20	6/23/2020 8:28:51 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	520	20		µg/L	20	6/19/2020 12:22:16 PM	A69766
Toluene	8.7	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Ethylbenzene	42	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,2,4-Trimethylbenzene	15	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,3,5-Trimethylbenzene	5.8	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,2-Dichloroethane (EDC)	35	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Naphthalene	3.2	2.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1-Methylnaphthalene	ND	4.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
2-Methylnaphthalene	ND	4.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Acetone	ND	10		µg/L	1	6/18/2020 7:20:30 PM	W69735
Bromobenzene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Bromodichloromethane	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Bromoform	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Bromomethane	ND	3.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
2-Butanone	ND	10		µg/L	1	6/18/2020 7:20:30 PM	W69735
Carbon disulfide	ND	10		µg/L	1	6/18/2020 7:20:30 PM	W69735
Carbon Tetrachloride	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Chlorobenzene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Chloroethane	ND	2.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Chloroform	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Chloromethane	ND	3.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
2-Chlorotoluene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
4-Chlorotoluene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
cis-1,2-DCE	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Dibromochloromethane	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Dibromomethane	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,1-Dichloroethane	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,1-Dichloroethene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,2-Dichloropropane	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-16
Project: Former Y Station **Collection Date:** 6/11/2020 12:41:00 PM
Lab ID: 2006771-016 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
2,2-Dichloropropane	ND	2.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,1-Dichloropropene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Hexachlorobutadiene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
2-Hexanone	ND	10		µg/L	1	6/18/2020 7:20:30 PM	W69735
Isopropylbenzene	1.1	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
4-Isopropyltoluene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
4-Methyl-2-pentanone	ND	10		µg/L	1	6/18/2020 7:20:30 PM	W69735
Methylene Chloride	ND	3.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
n-Butylbenzene	ND	3.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
n-Propylbenzene	2.5	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
sec-Butylbenzene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Styrene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
tert-Butylbenzene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
trans-1,2-DCE	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Trichlorofluoromethane	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Vinyl chloride	ND	1.0		µg/L	1	6/18/2020 7:20:30 PM	W69735
Xylenes, Total	140	1.5		µg/L	1	6/18/2020 7:20:30 PM	W69735
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	6/18/2020 7:20:30 PM	W69735
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/18/2020 7:20:30 PM	W69735
Surr: Dibromofluoromethane	112	70-130		%Rec	1	6/18/2020 7:20:30 PM	W69735
Surr: Toluene-d8	109	70-130		%Rec	1	6/18/2020 7:20:30 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-17
Project: Former Y Station **Collection Date:** 6/11/2020 3:29:00 PM
Lab ID: 2006771-017 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.0094		µg/L	1	6/23/2020 12:59:20 AM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Toluene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Ethylbenzene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Naphthalene	ND	2.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1-Methylnaphthalene	ND	4.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
2-Methylnaphthalene	ND	4.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Acetone	ND	10		µg/L	1	6/18/2020 7:49:09 PM	W69735
Bromobenzene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Bromodichloromethane	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Bromoform	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Bromomethane	ND	3.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
2-Butanone	ND	10		µg/L	1	6/18/2020 7:49:09 PM	W69735
Carbon disulfide	ND	10		µg/L	1	6/18/2020 7:49:09 PM	W69735
Carbon Tetrachloride	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Chlorobenzene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Chloroethane	ND	2.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Chloroform	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Chloromethane	ND	3.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
2-Chlorotoluene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
4-Chlorotoluene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
cis-1,2-DCE	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Dibromochloromethane	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Dibromomethane	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,1-Dichloroethane	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,1-Dichloroethene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,2-Dichloropropane	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-17
Project: Former Y Station **Collection Date:** 6/11/2020 3:29:00 PM
Lab ID: 2006771-017 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
2,2-Dichloropropane	ND	2.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,1-Dichloropropene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Hexachlorobutadiene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
2-Hexanone	ND	10		µg/L	1	6/18/2020 7:49:09 PM	W69735
Isopropylbenzene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
4-Isopropyltoluene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
4-Methyl-2-pentanone	ND	10		µg/L	1	6/18/2020 7:49:09 PM	W69735
Methylene Chloride	ND	3.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
n-Butylbenzene	ND	3.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
n-Propylbenzene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
sec-Butylbenzene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Styrene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
tert-Butylbenzene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
trans-1,2-DCE	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Trichlorofluoromethane	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Vinyl chloride	ND	1.0		µg/L	1	6/18/2020 7:49:09 PM	W69735
Xylenes, Total	ND	1.5		µg/L	1	6/18/2020 7:49:09 PM	W69735
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%Rec	1	6/18/2020 7:49:09 PM	W69735
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	6/18/2020 7:49:09 PM	W69735
Surr: Dibromofluoromethane	108	70-130		%Rec	1	6/18/2020 7:49:09 PM	W69735
Surr: Toluene-d8	110	70-130		%Rec	1	6/18/2020 7:49:09 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** RW-1
Project: Former Y Station **Collection Date:** 6/13/2020 8:48:00 AM
Lab ID: 2006771-018 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	0.22	0.094		µg/L	10	6/23/2020 8:44:27 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	340	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
Toluene	39	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
Ethylbenzene	18	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,2,4-Trimethylbenzene	47	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,3,5-Trimethylbenzene	12	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,2-Dichloroethane (EDC)	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,2-Dibromoethane (EDB)	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
Naphthalene	10	10		µg/L	5	6/18/2020 8:46:26 PM	W69735
1-Methylnaphthalene	ND	20		µg/L	5	6/18/2020 8:46:26 PM	W69735
2-Methylnaphthalene	ND	20		µg/L	5	6/18/2020 8:46:26 PM	W69735
Acetone	ND	50		µg/L	5	6/18/2020 8:46:26 PM	W69735
Bromobenzene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
Bromodichloromethane	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
Bromoform	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
Bromomethane	ND	15		µg/L	5	6/18/2020 8:46:26 PM	W69735
2-Butanone	ND	50		µg/L	5	6/18/2020 8:46:26 PM	W69735
Carbon disulfide	ND	50		µg/L	5	6/18/2020 8:46:26 PM	W69735
Carbon Tetrachloride	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
Chlorobenzene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
Chloroethane	ND	10		µg/L	5	6/18/2020 8:46:26 PM	W69735
Chloroform	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
Chloromethane	ND	15		µg/L	5	6/18/2020 8:46:26 PM	W69735
2-Chlorotoluene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
4-Chlorotoluene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
cis-1,2-DCE	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	6/18/2020 8:46:26 PM	W69735
Dibromochloromethane	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
Dibromomethane	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,2-Dichlorobenzene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,3-Dichlorobenzene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,4-Dichlorobenzene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
Dichlorodifluoromethane	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,1-Dichloroethane	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,1-Dichloroethene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,2-Dichloropropane	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** RW-1
Project: Former Y Station **Collection Date:** 6/13/2020 8:48:00 AM
Lab ID: 2006771-018 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
2,2-Dichloropropane	ND	10		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,1-Dichloropropene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
Hexachlorobutadiene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
2-Hexanone	ND	50		µg/L	5	6/18/2020 8:46:26 PM	W69735
Isopropylbenzene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
4-Isopropyltoluene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
4-Methyl-2-pentanone	ND	50		µg/L	5	6/18/2020 8:46:26 PM	W69735
Methylene Chloride	ND	15		µg/L	5	6/18/2020 8:46:26 PM	W69735
n-Butylbenzene	ND	15		µg/L	5	6/18/2020 8:46:26 PM	W69735
n-Propylbenzene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
sec-Butylbenzene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
Styrene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
tert-Butylbenzene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,1,2,2-Tetrachloroethane	ND	10		µg/L	5	6/18/2020 8:46:26 PM	W69735
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
trans-1,2-DCE	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,2,4-Trichlorobenzene	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,1,1-Trichloroethane	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,1,2-Trichloroethane	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
Trichloroethene (TCE)	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
Trichlorofluoromethane	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
1,2,3-Trichloropropane	ND	10		µg/L	5	6/18/2020 8:46:26 PM	W69735
Vinyl chloride	ND	5.0		µg/L	5	6/18/2020 8:46:26 PM	W69735
Xylenes, Total	51	7.5		µg/L	5	6/18/2020 8:46:26 PM	W69735
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	5	6/18/2020 8:46:26 PM	W69735
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	5	6/18/2020 8:46:26 PM	W69735
Surr: Dibromofluoromethane	101	70-130		%Rec	5	6/18/2020 8:46:26 PM	W69735
Surr: Toluene-d8	107	70-130		%Rec	5	6/18/2020 8:46:26 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** RW-2
Project: Former Y Station **Collection Date:** 6/14/2020 10:02:00 AM
Lab ID: 2006771-019 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	4.8	0.94		µg/L	100	6/23/2020 8:59:54 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	1800	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
Toluene	1100	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
Ethylbenzene	130	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,2,4-Trimethylbenzene	120	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,3,5-Trimethylbenzene	30	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,2-Dichloroethane (EDC)	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
Naphthalene	ND	40		µg/L	20	6/18/2020 9:43:30 PM	W69735
1-Methylnaphthalene	ND	80		µg/L	20	6/18/2020 9:43:30 PM	W69735
2-Methylnaphthalene	ND	80		µg/L	20	6/18/2020 9:43:30 PM	W69735
Acetone	ND	200		µg/L	20	6/18/2020 9:43:30 PM	W69735
Bromobenzene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
Bromodichloromethane	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
Bromoform	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
Bromomethane	ND	60		µg/L	20	6/18/2020 9:43:30 PM	W69735
2-Butanone	ND	200		µg/L	20	6/18/2020 9:43:30 PM	W69735
Carbon disulfide	ND	200		µg/L	20	6/18/2020 9:43:30 PM	W69735
Carbon Tetrachloride	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
Chlorobenzene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
Chloroethane	ND	40		µg/L	20	6/18/2020 9:43:30 PM	W69735
Chloroform	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
Chloromethane	ND	60		µg/L	20	6/18/2020 9:43:30 PM	W69735
2-Chlorotoluene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
4-Chlorotoluene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
cis-1,2-DCE	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
cis-1,3-Dichloropropene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	6/18/2020 9:43:30 PM	W69735
Dibromochloromethane	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
Dibromomethane	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,2-Dichlorobenzene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,3-Dichlorobenzene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,4-Dichlorobenzene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
Dichlorodifluoromethane	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,1-Dichloroethane	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,1-Dichloroethene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,2-Dichloropropane	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** RW-2
Project: Former Y Station **Collection Date:** 6/14/2020 10:02:00 AM
Lab ID: 2006771-019 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
2,2-Dichloropropane	ND	40		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,1-Dichloropropene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
Hexachlorobutadiene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
2-Hexanone	ND	200		µg/L	20	6/18/2020 9:43:30 PM	W69735
Isopropylbenzene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
4-Isopropyltoluene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
4-Methyl-2-pentanone	ND	200		µg/L	20	6/18/2020 9:43:30 PM	W69735
Methylene Chloride	ND	60		µg/L	20	6/18/2020 9:43:30 PM	W69735
n-Butylbenzene	ND	60		µg/L	20	6/18/2020 9:43:30 PM	W69735
n-Propylbenzene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
sec-Butylbenzene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
Styrene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
tert-Butylbenzene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	6/18/2020 9:43:30 PM	W69735
Tetrachloroethene (PCE)	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
trans-1,2-DCE	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
trans-1,3-Dichloropropene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,2,3-Trichlorobenzene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,2,4-Trichlorobenzene	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,1,1-Trichloroethane	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,1,2-Trichloroethane	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
Trichloroethene (TCE)	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
Trichlorofluoromethane	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
1,2,3-Trichloropropane	ND	40		µg/L	20	6/18/2020 9:43:30 PM	W69735
Vinyl chloride	ND	20		µg/L	20	6/18/2020 9:43:30 PM	W69735
Xylenes, Total	470	30		µg/L	20	6/18/2020 9:43:30 PM	W69735
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	20	6/18/2020 9:43:30 PM	W69735
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	20	6/18/2020 9:43:30 PM	W69735
Surr: Dibromofluoromethane	105	70-130		%Rec	20	6/18/2020 9:43:30 PM	W69735
Surr: Toluene-d8	103	70-130		%Rec	20	6/18/2020 9:43:30 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** RW-3
Project: Former Y Station **Collection Date:** 6/13/2020 10:31:00 AM
Lab ID: 2006771-020 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	49	9.5		µg/L	1E+	6/23/2020 9:15:15 PM	53147
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	3800	200		µg/L	200	6/18/2020 10:12:09 PM	W69735
Toluene	2300	200		µg/L	200	6/18/2020 10:12:09 PM	W69735
Ethylbenzene	290	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,2,4-Trimethylbenzene	280	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,3,5-Trimethylbenzene	75	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,2-Dichloroethane (EDC)	180	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,2-Dibromoethane (EDB)	40	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
Naphthalene	76	40		µg/L	20	6/18/2020 10:40:56 PM	W69735
1-Methylnaphthalene	ND	80		µg/L	20	6/18/2020 10:40:56 PM	W69735
2-Methylnaphthalene	ND	80		µg/L	20	6/18/2020 10:40:56 PM	W69735
Acetone	ND	200		µg/L	20	6/18/2020 10:40:56 PM	W69735
Bromobenzene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
Bromodichloromethane	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
Bromoform	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
Bromomethane	ND	60		µg/L	20	6/18/2020 10:40:56 PM	W69735
2-Butanone	ND	200		µg/L	20	6/18/2020 10:40:56 PM	W69735
Carbon disulfide	ND	200		µg/L	20	6/18/2020 10:40:56 PM	W69735
Carbon Tetrachloride	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
Chlorobenzene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
Chloroethane	ND	40		µg/L	20	6/18/2020 10:40:56 PM	W69735
Chloroform	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
Chloromethane	ND	60		µg/L	20	6/18/2020 10:40:56 PM	W69735
2-Chlorotoluene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
4-Chlorotoluene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
cis-1,2-DCE	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
cis-1,3-Dichloropropene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	6/18/2020 10:40:56 PM	W69735
Dibromochloromethane	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
Dibromomethane	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,2-Dichlorobenzene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,3-Dichlorobenzene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,4-Dichlorobenzene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
Dichlorodifluoromethane	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,1-Dichloroethane	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,1-Dichloroethene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,2-Dichloropropane	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: RW-3
Project: Former Y Station
Collection Date: 6/13/2020 10:31:00 AM
Lab ID: 2006771-020
Matrix: GROUNDWA
Received Date: 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
2,2-Dichloropropane	ND	40		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,1-Dichloropropene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
Hexachlorobutadiene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
2-Hexanone	ND	200		µg/L	20	6/18/2020 10:40:56 PM	W69735
Isopropylbenzene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
4-Isopropyltoluene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
4-Methyl-2-pentanone	ND	200		µg/L	20	6/18/2020 10:40:56 PM	W69735
Methylene Chloride	ND	60		µg/L	20	6/18/2020 10:40:56 PM	W69735
n-Butylbenzene	ND	60		µg/L	20	6/18/2020 10:40:56 PM	W69735
n-Propylbenzene	37	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
sec-Butylbenzene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
Styrene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
tert-Butylbenzene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	6/18/2020 10:40:56 PM	W69735
Tetrachloroethene (PCE)	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
trans-1,2-DCE	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
trans-1,3-Dichloropropene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,2,3-Trichlorobenzene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,2,4-Trichlorobenzene	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,1,1-Trichloroethane	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,1,2-Trichloroethane	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
Trichloroethene (TCE)	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
Trichlorofluoromethane	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
1,2,3-Trichloropropane	ND	40		µg/L	20	6/18/2020 10:40:56 PM	W69735
Vinyl chloride	ND	20		µg/L	20	6/18/2020 10:40:56 PM	W69735
Xylenes, Total	2100	30		µg/L	20	6/18/2020 10:40:56 PM	W69735
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	20	6/18/2020 10:40:56 PM	W69735
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	20	6/18/2020 10:40:56 PM	W69735
Surr: Dibromofluoromethane	105	70-130		%Rec	20	6/18/2020 10:40:56 PM	W69735
Surr: Toluene-d8	106	70-130		%Rec	20	6/18/2020 10:40:56 PM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** RW-4
Project: Former Y Station **Collection Date:** 6/12/2020 1:47:00 PM
Lab ID: 2006771-021 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	13	0.94		µg/L	100	6/23/2020 9:30:38 PM	53148
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	1500	50		µg/L	50	6/19/2020 1:03:32 AM	W69735
Toluene	410	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
Ethylbenzene	110	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,2,4-Trimethylbenzene	100	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,3,5-Trimethylbenzene	25	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,2-Dichloroethane (EDC)	100	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,2-Dibromoethane (EDB)	9.2	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
Naphthalene	20	10		µg/L	5	6/19/2020 1:32:09 AM	W69735
1-Methylnaphthalene	ND	20		µg/L	5	6/19/2020 1:32:09 AM	W69735
2-Methylnaphthalene	ND	20		µg/L	5	6/19/2020 1:32:09 AM	W69735
Acetone	ND	50		µg/L	5	6/19/2020 1:32:09 AM	W69735
Bromobenzene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
Bromodichloromethane	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
Bromoform	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
Bromomethane	ND	15		µg/L	5	6/19/2020 1:32:09 AM	W69735
2-Butanone	ND	50		µg/L	5	6/19/2020 1:32:09 AM	W69735
Carbon disulfide	ND	50		µg/L	5	6/19/2020 1:32:09 AM	W69735
Carbon Tetrachloride	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
Chlorobenzene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
Chloroethane	ND	10		µg/L	5	6/19/2020 1:32:09 AM	W69735
Chloroform	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
Chloromethane	ND	15		µg/L	5	6/19/2020 1:32:09 AM	W69735
2-Chlorotoluene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
4-Chlorotoluene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
cis-1,2-DCE	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	6/19/2020 1:32:09 AM	W69735
Dibromochloromethane	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
Dibromomethane	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,2-Dichlorobenzene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,3-Dichlorobenzene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,4-Dichlorobenzene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
Dichlorodifluoromethane	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,1-Dichloroethane	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,1-Dichloroethene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,2-Dichloropropane	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** RW-4
Project: Former Y Station **Collection Date:** 6/12/2020 1:47:00 PM
Lab ID: 2006771-021 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
2,2-Dichloropropane	ND	10		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,1-Dichloropropene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
Hexachlorobutadiene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
2-Hexanone	ND	50		µg/L	5	6/19/2020 1:32:09 AM	W69735
Isopropylbenzene	5.6	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
4-Isopropyltoluene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
4-Methyl-2-pentanone	ND	50		µg/L	5	6/19/2020 1:32:09 AM	W69735
Methylene Chloride	ND	15		µg/L	5	6/19/2020 1:32:09 AM	W69735
n-Butylbenzene	ND	15		µg/L	5	6/19/2020 1:32:09 AM	W69735
n-Propylbenzene	12	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
sec-Butylbenzene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
Styrene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
tert-Butylbenzene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,1,2,2-Tetrachloroethane	ND	10		µg/L	5	6/19/2020 1:32:09 AM	W69735
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
trans-1,2-DCE	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,2,4-Trichlorobenzene	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,1,1-Trichloroethane	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,1,2-Trichloroethane	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
Trichloroethene (TCE)	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
Trichlorofluoromethane	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
1,2,3-Trichloropropane	ND	10		µg/L	5	6/19/2020 1:32:09 AM	W69735
Vinyl chloride	ND	5.0		µg/L	5	6/19/2020 1:32:09 AM	W69735
Xylenes, Total	360	7.5		µg/L	5	6/19/2020 1:32:09 AM	W69735
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	5	6/19/2020 1:32:09 AM	W69735
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	5	6/19/2020 1:32:09 AM	W69735
Surr: Dibromofluoromethane	97.7	70-130		%Rec	5	6/19/2020 1:32:09 AM	W69735
Surr: Toluene-d8	108	70-130		%Rec	5	6/19/2020 1:32:09 AM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-8 Deep HS
Project: Former Y Station **Collection Date:** 6/13/2020 4:35:00 PM
Lab ID: 2006771-022 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	0.26	0.093		µg/L	10	6/23/2020 9:46:08 PM	53148
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	7000	200		µg/L	200	6/19/2020 12:50:50 PM	A69766
Toluene	8400	200		µg/L	200	6/19/2020 12:50:50 PM	A69766
Ethylbenzene	570	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,2,4-Trimethylbenzene	290	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,3,5-Trimethylbenzene	93	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
Naphthalene	120	20		µg/L	10	6/19/2020 2:00:40 AM	W69735
1-Methylnaphthalene	ND	40		µg/L	10	6/19/2020 2:00:40 AM	W69735
2-Methylnaphthalene	ND	40		µg/L	10	6/19/2020 2:00:40 AM	W69735
Acetone	190	100		µg/L	10	6/19/2020 2:00:40 AM	W69735
Bromobenzene	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
Bromodichloromethane	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
Bromoform	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
Bromomethane	ND	30		µg/L	10	6/19/2020 2:00:40 AM	W69735
2-Butanone	200	100		µg/L	10	6/19/2020 2:00:40 AM	W69735
Carbon disulfide	ND	100		µg/L	10	6/19/2020 2:00:40 AM	W69735
Carbon Tetrachloride	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
Chlorobenzene	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
Chloroethane	ND	20		µg/L	10	6/19/2020 2:00:40 AM	W69735
Chloroform	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
Chloromethane	ND	30		µg/L	10	6/19/2020 2:00:40 AM	W69735
2-Chlorotoluene	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
4-Chlorotoluene	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
cis-1,2-DCE	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/19/2020 2:00:40 AM	W69735
Dibromochloromethane	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
Dibromomethane	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,2-Dichlorobenzene	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,3-Dichlorobenzene	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,4-Dichlorobenzene	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
Dichlorodifluoromethane	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,1-Dichloroethane	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,1-Dichloroethene	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,2-Dichloropropane	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-8 Deep HS
Project: Former Y Station **Collection Date:** 6/13/2020 4:35:00 PM
Lab ID: 2006771-022 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
2,2-Dichloropropane	ND	20		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,1-Dichloropropene	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
Hexachlorobutadiene	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
2-Hexanone	200	100		µg/L	10	6/19/2020 2:00:40 AM	W69735
Isopropylbenzene	22	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
4-Isopropyltoluene	21	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
4-Methyl-2-pentanone	110	100		µg/L	10	6/19/2020 2:00:40 AM	W69735
Methylene Chloride	ND	30		µg/L	10	6/19/2020 2:00:40 AM	W69735
n-Butylbenzene	ND	30		µg/L	10	6/19/2020 2:00:40 AM	W69735
n-Propylbenzene	45	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
sec-Butylbenzene	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
Styrene	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
tert-Butylbenzene	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/19/2020 2:00:40 AM	W69735
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
trans-1,2-DCE	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,1,1-Trichloroethane	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,1,2-Trichloroethane	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
Trichloroethene (TCE)	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
Trichlorofluoromethane	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
1,2,3-Trichloropropane	ND	20		µg/L	10	6/19/2020 2:00:40 AM	W69735
Vinyl chloride	ND	10		µg/L	10	6/19/2020 2:00:40 AM	W69735
Xylenes, Total	2400	15		µg/L	10	6/19/2020 2:00:40 AM	W69735
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	10	6/19/2020 2:00:40 AM	W69735
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	10	6/19/2020 2:00:40 AM	W69735
Surr: Dibromofluoromethane	101	70-130		%Rec	10	6/19/2020 2:00:40 AM	W69735
Surr: Toluene-d8	107	70-130		%Rec	10	6/19/2020 2:00:40 AM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** BW-8 Shallow HS
Project: Former Y Station **Collection Date:** 6/13/2020 4:30:00 PM
Lab ID: 2006771-023 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	0.25	0.094		µg/L	10	6/23/2020 10:01:35 PM	53148
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	6300	200		µg/L	200	6/19/2020 1:19:28 PM	A69766
Toluene	8500	200		µg/L	200	6/19/2020 1:19:28 PM	A69766
Ethylbenzene	670	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,2,4-Trimethylbenzene	330	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,3,5-Trimethylbenzene	100	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,2-Dichloroethane (EDC)	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
Naphthalene	130	40		µg/L	20	6/19/2020 2:29:08 AM	W69735
1-Methylnaphthalene	ND	80		µg/L	20	6/19/2020 2:29:08 AM	W69735
2-Methylnaphthalene	ND	80		µg/L	20	6/19/2020 2:29:08 AM	W69735
Acetone	260	200		µg/L	20	6/19/2020 2:29:08 AM	W69735
Bromobenzene	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
Bromodichloromethane	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
Bromoform	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
Bromomethane	ND	60		µg/L	20	6/19/2020 2:29:08 AM	W69735
2-Butanone	250	200		µg/L	20	6/19/2020 2:29:08 AM	W69735
Carbon disulfide	ND	200		µg/L	20	6/19/2020 2:29:08 AM	W69735
Carbon Tetrachloride	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
Chlorobenzene	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
Chloroethane	ND	40		µg/L	20	6/19/2020 2:29:08 AM	W69735
Chloroform	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
Chloromethane	ND	60		µg/L	20	6/19/2020 2:29:08 AM	W69735
2-Chlorotoluene	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
4-Chlorotoluene	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
cis-1,2-DCE	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
cis-1,3-Dichloropropene	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	6/19/2020 2:29:08 AM	W69735
Dibromochloromethane	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
Dibromomethane	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,2-Dichlorobenzene	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,3-Dichlorobenzene	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,4-Dichlorobenzene	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
Dichlorodifluoromethane	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,1-Dichloroethane	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,1-Dichloroethene	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,2-Dichloropropane	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: BW-8 Shallow HS
Project: Former Y Station
Collection Date: 6/13/2020 4:30:00 PM
Lab ID: 2006771-023
Matrix: GROUNDWA
Received Date: 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
2,2-Dichloropropane	ND	40		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,1-Dichloropropene	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
Hexachlorobutadiene	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
2-Hexanone	260	200		µg/L	20	6/19/2020 2:29:08 AM	W69735
Isopropylbenzene	24	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
4-Isopropyltoluene	20	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
4-Methyl-2-pentanone	ND	200		µg/L	20	6/19/2020 2:29:08 AM	W69735
Methylene Chloride	ND	60		µg/L	20	6/19/2020 2:29:08 AM	W69735
n-Butylbenzene	ND	60		µg/L	20	6/19/2020 2:29:08 AM	W69735
n-Propylbenzene	57	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
sec-Butylbenzene	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
Styrene	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
tert-Butylbenzene	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	6/19/2020 2:29:08 AM	W69735
Tetrachloroethene (PCE)	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
trans-1,2-DCE	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
trans-1,3-Dichloropropene	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,2,3-Trichlorobenzene	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,2,4-Trichlorobenzene	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,1,1-Trichloroethane	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,1,2-Trichloroethane	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
Trichloroethene (TCE)	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
Trichlorofluoromethane	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
1,2,3-Trichloropropane	ND	40		µg/L	20	6/19/2020 2:29:08 AM	W69735
Vinyl chloride	ND	20		µg/L	20	6/19/2020 2:29:08 AM	W69735
Xylenes, Total	2600	30		µg/L	20	6/19/2020 2:29:08 AM	W69735
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	20	6/19/2020 2:29:08 AM	W69735
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	20	6/19/2020 2:29:08 AM	W69735
Surr: Dibromofluoromethane	102	70-130		%Rec	20	6/19/2020 2:29:08 AM	W69735
Surr: Toluene-d8	102	70-130		%Rec	20	6/19/2020 2:29:08 AM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-11 Deep HS
Project: Former Y Station **Collection Date:** 6/13/2020 11:55:00 AM
Lab ID: 2006771-024 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	2.1	0.47		µg/L	50	6/23/2020 10:16:57 PM	53148
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	4200	200		µg/L	200	6/19/2020 1:48:06 PM	A69766
Toluene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
Ethylbenzene	370	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,2,4-Trimethylbenzene	230	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,3,5-Trimethylbenzene	54	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,2-Dichloroethane (EDC)	190	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
Naphthalene	50	20		µg/L	10	6/19/2020 2:57:43 AM	W69735
1-Methylnaphthalene	ND	40		µg/L	10	6/19/2020 2:57:43 AM	W69735
2-Methylnaphthalene	ND	40		µg/L	10	6/19/2020 2:57:43 AM	W69735
Acetone	ND	100		µg/L	10	6/19/2020 2:57:43 AM	W69735
Bromobenzene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
Bromodichloromethane	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
Bromoform	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
Bromomethane	ND	30		µg/L	10	6/19/2020 2:57:43 AM	W69735
2-Butanone	ND	100		µg/L	10	6/19/2020 2:57:43 AM	W69735
Carbon disulfide	ND	100		µg/L	10	6/19/2020 2:57:43 AM	W69735
Carbon Tetrachloride	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
Chlorobenzene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
Chloroethane	ND	20		µg/L	10	6/19/2020 2:57:43 AM	W69735
Chloroform	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
Chloromethane	ND	30		µg/L	10	6/19/2020 2:57:43 AM	W69735
2-Chlorotoluene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
4-Chlorotoluene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
cis-1,2-DCE	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/19/2020 2:57:43 AM	W69735
Dibromochloromethane	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
Dibromomethane	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,2-Dichlorobenzene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,3-Dichlorobenzene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,4-Dichlorobenzene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
Dichlorodifluoromethane	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,1-Dichloroethane	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,1-Dichloroethene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,2-Dichloropropane	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-11 Deep HS
Project: Former Y Station **Collection Date:** 6/13/2020 11:55:00 AM
Lab ID: 2006771-024 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
2,2-Dichloropropane	ND	20		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,1-Dichloropropene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
Hexachlorobutadiene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
2-Hexanone	ND	100		µg/L	10	6/19/2020 2:57:43 AM	W69735
Isopropylbenzene	13	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
4-Isopropyltoluene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
4-Methyl-2-pentanone	ND	100		µg/L	10	6/19/2020 2:57:43 AM	W69735
Methylene Chloride	ND	30		µg/L	10	6/19/2020 2:57:43 AM	W69735
n-Butylbenzene	ND	30		µg/L	10	6/19/2020 2:57:43 AM	W69735
n-Propylbenzene	33	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
sec-Butylbenzene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
Styrene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
tert-Butylbenzene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/19/2020 2:57:43 AM	W69735
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
trans-1,2-DCE	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,1,1-Trichloroethane	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,1,2-Trichloroethane	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
Trichloroethene (TCE)	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
Trichlorofluoromethane	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
1,2,3-Trichloropropane	ND	20		µg/L	10	6/19/2020 2:57:43 AM	W69735
Vinyl chloride	ND	10		µg/L	10	6/19/2020 2:57:43 AM	W69735
Xylenes, Total	150	15		µg/L	10	6/19/2020 2:57:43 AM	W69735
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	10	6/19/2020 2:57:43 AM	W69735
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	10	6/19/2020 2:57:43 AM	W69735
Surr: Dibromofluoromethane	105	70-130		%Rec	10	6/19/2020 2:57:43 AM	W69735
Surr: Toluene-d8	108	70-130		%Rec	10	6/19/2020 2:57:43 AM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-11 Shallow HS
Project: Former Y Station **Collection Date:** 6/13/2020 11:50:00 AM
Lab ID: 2006771-025 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	1.4	0.48		µg/L	50	6/23/2020 10:32:23 PM	53148
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	3900	200		µg/L	200	6/19/2020 2:16:45 PM	A69766
Toluene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
Ethylbenzene	250	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,2,4-Trimethylbenzene	110	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,3,5-Trimethylbenzene	35	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,2-Dichloroethane (EDC)	190	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
Naphthalene	28	20		µg/L	10	6/19/2020 3:26:26 AM	W69735
1-Methylnaphthalene	ND	40		µg/L	10	6/19/2020 3:26:26 AM	W69735
2-Methylnaphthalene	ND	40		µg/L	10	6/19/2020 3:26:26 AM	W69735
Acetone	ND	100		µg/L	10	6/19/2020 3:26:26 AM	W69735
Bromobenzene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
Bromodichloromethane	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
Bromoform	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
Bromomethane	ND	30		µg/L	10	6/19/2020 3:26:26 AM	W69735
2-Butanone	ND	100		µg/L	10	6/19/2020 3:26:26 AM	W69735
Carbon disulfide	ND	100		µg/L	10	6/19/2020 3:26:26 AM	W69735
Carbon Tetrachloride	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
Chlorobenzene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
Chloroethane	ND	20		µg/L	10	6/19/2020 3:26:26 AM	W69735
Chloroform	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
Chloromethane	ND	30		µg/L	10	6/19/2020 3:26:26 AM	W69735
2-Chlorotoluene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
4-Chlorotoluene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
cis-1,2-DCE	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/19/2020 3:26:26 AM	W69735
Dibromochloromethane	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
Dibromomethane	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,2-Dichlorobenzene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,3-Dichlorobenzene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,4-Dichlorobenzene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
Dichlorodifluoromethane	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,1-Dichloroethane	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,1-Dichloroethene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,2-Dichloropropane	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: MW-11 Shallow HS
Project: Former Y Station
Collection Date: 6/13/2020 11:50:00 AM
Lab ID: 2006771-025
Matrix: GROUNDWA
Received Date: 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
2,2-Dichloropropane	ND	20		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,1-Dichloropropene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
Hexachlorobutadiene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
2-Hexanone	ND	100		µg/L	10	6/19/2020 3:26:26 AM	W69735
Isopropylbenzene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
4-Isopropyltoluene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
4-Methyl-2-pentanone	ND	100		µg/L	10	6/19/2020 3:26:26 AM	W69735
Methylene Chloride	ND	30		µg/L	10	6/19/2020 3:26:26 AM	W69735
n-Butylbenzene	ND	30		µg/L	10	6/19/2020 3:26:26 AM	W69735
n-Propylbenzene	17	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
sec-Butylbenzene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
Styrene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
tert-Butylbenzene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/19/2020 3:26:26 AM	W69735
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
trans-1,2-DCE	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,1,1-Trichloroethane	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,1,2-Trichloroethane	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
Trichloroethene (TCE)	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
Trichlorofluoromethane	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
1,2,3-Trichloropropane	ND	20		µg/L	10	6/19/2020 3:26:26 AM	W69735
Vinyl chloride	ND	10		µg/L	10	6/19/2020 3:26:26 AM	W69735
Xylenes, Total	86	15		µg/L	10	6/19/2020 3:26:26 AM	W69735
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	10	6/19/2020 3:26:26 AM	W69735
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	10	6/19/2020 3:26:26 AM	W69735
Surr: Dibromofluoromethane	111	70-130		%Rec	10	6/19/2020 3:26:26 AM	W69735
Surr: Toluene-d8	107	70-130		%Rec	10	6/19/2020 3:26:26 AM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-14 Deep HS
Project: Former Y Station **Collection Date:** 6/10/2020 1:00:00 PM
Lab ID: 2006771-026 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.0094		µg/L	1	6/23/2020 4:04:23 AM	53148
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Toluene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Ethylbenzene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Naphthalene	ND	2.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1-Methylnaphthalene	ND	4.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
2-Methylnaphthalene	ND	4.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Acetone	ND	10		µg/L	1	6/19/2020 3:54:53 AM	W69735
Bromobenzene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Bromodichloromethane	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Bromoform	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Bromomethane	ND	3.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
2-Butanone	ND	10		µg/L	1	6/19/2020 3:54:53 AM	W69735
Carbon disulfide	ND	10		µg/L	1	6/19/2020 3:54:53 AM	W69735
Carbon Tetrachloride	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Chlorobenzene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Chloroethane	ND	2.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Chloroform	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Chloromethane	ND	3.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
2-Chlorotoluene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
4-Chlorotoluene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
cis-1,2-DCE	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Dibromochloromethane	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Dibromomethane	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,1-Dichloroethane	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,1-Dichloroethene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,2-Dichloropropane	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: MW-14 Deep HS
Project: Former Y Station
Collection Date: 6/10/2020 1:00:00 PM
Lab ID: 2006771-026
Matrix: GROUNDWA
Received Date: 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
2,2-Dichloropropane	ND	2.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,1-Dichloropropene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Hexachlorobutadiene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
2-Hexanone	ND	10		µg/L	1	6/19/2020 3:54:53 AM	W69735
Isopropylbenzene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
4-Isopropyltoluene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
4-Methyl-2-pentanone	ND	10		µg/L	1	6/19/2020 3:54:53 AM	W69735
Methylene Chloride	ND	3.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
n-Butylbenzene	ND	3.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
n-Propylbenzene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
sec-Butylbenzene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Styrene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
tert-Butylbenzene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
trans-1,2-DCE	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Trichlorofluoromethane	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Vinyl chloride	ND	1.0		µg/L	1	6/19/2020 3:54:53 AM	W69735
Xylenes, Total	ND	1.5		µg/L	1	6/19/2020 3:54:53 AM	W69735
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	6/19/2020 3:54:53 AM	W69735
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	6/19/2020 3:54:53 AM	W69735
Surr: Dibromofluoromethane	100	70-130		%Rec	1	6/19/2020 3:54:53 AM	W69735
Surr: Toluene-d8	109	70-130		%Rec	1	6/19/2020 3:54:53 AM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** MW-14 Shallow HS
Project: Former Y Station **Collection Date:** 6/10/2020 12:55:00 PM
Lab ID: 2006771-027 **Matrix:** GROUNDWA **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.0093		µg/L	1	6/23/2020 4:19:42 AM	53148
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Toluene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Ethylbenzene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Naphthalene	ND	2.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1-Methylnaphthalene	ND	4.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
2-Methylnaphthalene	ND	4.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Acetone	ND	10		µg/L	1	6/19/2020 4:23:28 AM	W69735
Bromobenzene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Bromodichloromethane	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Bromoform	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Bromomethane	ND	3.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
2-Butanone	ND	10		µg/L	1	6/19/2020 4:23:28 AM	W69735
Carbon disulfide	ND	10		µg/L	1	6/19/2020 4:23:28 AM	W69735
Carbon Tetrachloride	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Chlorobenzene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Chloroethane	ND	2.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Chloroform	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Chloromethane	ND	3.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
2-Chlorotoluene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
4-Chlorotoluene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
cis-1,2-DCE	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Dibromochloromethane	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Dibromomethane	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,1-Dichloroethane	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,1-Dichloroethene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,2-Dichloropropane	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc.
Client Sample ID: MW-14 Shallow HS
Project: Former Y Station
Collection Date: 6/10/2020 12:55:00 PM
Lab ID: 2006771-027
Matrix: GROUNDWA
Received Date: 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
2,2-Dichloropropane	ND	2.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,1-Dichloropropene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Hexachlorobutadiene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
2-Hexanone	ND	10		µg/L	1	6/19/2020 4:23:28 AM	W69735
Isopropylbenzene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
4-Isopropyltoluene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
4-Methyl-2-pentanone	ND	10		µg/L	1	6/19/2020 4:23:28 AM	W69735
Methylene Chloride	ND	3.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
n-Butylbenzene	ND	3.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
n-Propylbenzene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
sec-Butylbenzene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Styrene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
tert-Butylbenzene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
trans-1,2-DCE	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Trichlorofluoromethane	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Vinyl chloride	ND	1.0		µg/L	1	6/19/2020 4:23:28 AM	W69735
Xylenes, Total	ND	1.5		µg/L	1	6/19/2020 4:23:28 AM	W69735
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	6/19/2020 4:23:28 AM	W69735
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	6/19/2020 4:23:28 AM	W69735
Surr: Dibromofluoromethane	105	70-130		%Rec	1	6/19/2020 4:23:28 AM	W69735
Surr: Toluene-d8	107	70-130		%Rec	1	6/19/2020 4:23:28 AM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** TRIP BLANK
Project: Former Y Station **Collection Date:**
Lab ID: 2006771-028 **Matrix:** TRIP BLANK **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.0092		µg/L	1	6/23/2020 4:34:55 AM	53148
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Toluene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Ethylbenzene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Naphthalene	ND	2.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1-Methylnaphthalene	ND	4.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
2-Methylnaphthalene	ND	4.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Acetone	ND	10		µg/L	1	6/19/2020 5:20:24 AM	W69735
Bromobenzene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Bromodichloromethane	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Bromoform	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Bromomethane	ND	3.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
2-Butanone	ND	10		µg/L	1	6/19/2020 5:20:24 AM	W69735
Carbon disulfide	ND	10		µg/L	1	6/19/2020 5:20:24 AM	W69735
Carbon Tetrachloride	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Chlorobenzene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Chloroethane	ND	2.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Chloroform	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Chloromethane	ND	3.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
2-Chlorotoluene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
4-Chlorotoluene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
cis-1,2-DCE	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Dibromochloromethane	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Dibromomethane	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,1-Dichloroethane	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,1-Dichloroethene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,2-Dichloropropane	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Daniel B. Stephens & Assoc. **Client Sample ID:** TRIP BLANK
Project: Former Y Station **Collection Date:**
Lab ID: 2006771-028 **Matrix:** TRIP BLANK **Received Date:** 6/15/2020 1:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
2,2-Dichloropropane	ND	2.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,1-Dichloropropene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Hexachlorobutadiene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
2-Hexanone	ND	10		µg/L	1	6/19/2020 5:20:24 AM	W69735
Isopropylbenzene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
4-Isopropyltoluene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
4-Methyl-2-pentanone	ND	10		µg/L	1	6/19/2020 5:20:24 AM	W69735
Methylene Chloride	ND	3.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
n-Butylbenzene	ND	3.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
n-Propylbenzene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
sec-Butylbenzene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Styrene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
tert-Butylbenzene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
trans-1,2-DCE	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Trichlorofluoromethane	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Vinyl chloride	ND	1.0		µg/L	1	6/19/2020 5:20:24 AM	W69735
Xylenes, Total	ND	1.5		µg/L	1	6/19/2020 5:20:24 AM	W69735
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	6/19/2020 5:20:24 AM	W69735
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	6/19/2020 5:20:24 AM	W69735
Surr: Dibromofluoromethane	106	70-130		%Rec	1	6/19/2020 5:20:24 AM	W69735
Surr: Toluene-d8	108	70-130		%Rec	1	6/19/2020 5:20:24 AM	W69735

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	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2006771**
29-Jun-20

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

Sample ID: **MB-53147** SampType: **MBLK** TestCode: **EPA Method 8011/504.1: EDB**
Client ID: **PBW** Batch ID: **53147** RunNo: **69818**
Prep Date: **6/22/2020** Analysis Date: **6/22/2020** SeqNo: **2425781** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: **MB-53147** SampType: **MBLK** TestCode: **EPA Method 8011/504.1: EDB**
Client ID: **PBW** Batch ID: **53147** RunNo: **69818**
Prep Date: **6/22/2020** Analysis Date: **6/22/2020** SeqNo: **2425782** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: **MB-53148** SampType: **MBLK** TestCode: **EPA Method 8011/504.1: EDB**
Client ID: **PBW** Batch ID: **53148** RunNo: **69818**
Prep Date: **6/22/2020** Analysis Date: **6/22/2020** SeqNo: **2425783** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: **MB-53148** SampType: **MBLK** TestCode: **EPA Method 8011/504.1: EDB**
Client ID: **PBW** Batch ID: **53148** RunNo: **69818**
Prep Date: **6/22/2020** Analysis Date: **6/22/2020** SeqNo: **2425784** 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-53147** SampType: **LCS** TestCode: **EPA Method 8011/504.1: EDB**
Client ID: **LCSW** Batch ID: **53147** RunNo: **69818**
Prep Date: **6/22/2020** Analysis Date: **6/22/2020** SeqNo: **2425789** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.099	0.010	0.1000	0	99.3	70	130			

Sample ID: **LCS-53148** SampType: **LCS** TestCode: **EPA Method 8011/504.1: EDB**
Client ID: **LCSW** Batch ID: **53148** RunNo: **69818**
Prep Date: **6/22/2020** Analysis Date: **6/22/2020** SeqNo: **2425790** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.097	0.010	0.1000	0	97.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2006771**
29-Jun-20

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

Sample ID: **LCSD-53148** SampType: **LCSD** TestCode: **EPA Method 8011/504.1: EDB**
Client ID: **LCSS02** Batch ID: **53148** RunNo: **69818**
Prep Date: **6/22/2020** Analysis Date: **6/22/2020** SeqNo: **2425793** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.097	0.010	0.1000	0	97.3	70	130	0.184	20	

Sample ID: **2006771-004BMS** SampType: **MS** TestCode: **EPA Method 8011/504.1: EDB**
Client ID: **BW-4** Batch ID: **53147** RunNo: **69818**
Prep Date: **6/22/2020** Analysis Date: **6/22/2020** SeqNo: **2425798** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.089	0.0094	0.09358	0	95.3	65	135			

Sample ID: **2006771-004BMSD** SampType: **MSD** TestCode: **EPA Method 8011/504.1: EDB**
Client ID: **BW-4** Batch ID: **53147** RunNo: **69818**
Prep Date: **6/22/2020** Analysis Date: **6/22/2020** SeqNo: **2425804** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.087	0.0093	0.09259	0	93.7	65	135	2.80	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2006771**
29-Jun-20

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

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R69714**	RunNo: **69714**
Prep Date:	Analysis Date: **6/17/2020**	SeqNo: **2420439** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2006771**
29-Jun-20

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

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R69714**	RunNo: **69714**
Prep Date:	Analysis Date: **6/17/2020**	SeqNo: **2420439** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.2		10.00		91.7	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.5	70	130			
Surr: Dibromofluoromethane	8.5		10.00		85.2	70	130			
Surr: Toluene-d8	9.6		10.00		96.1	70	130			

Sample ID: **2006771-001ams**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BW-1**	Batch ID: **R69714**	RunNo: **69714**
Prep Date:	Analysis Date: **6/17/2020**	SeqNo: **2420471** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.0	70	130			
Toluene	21	1.0	20.00	0.4442	104	70	130			
Chlorobenzene	20	1.0	20.00	0	101	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2006771**
29-Jun-20

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

Sample ID: **2006771-001ams** SampType: **MS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BW-1** Batch ID: **R69714** RunNo: **69714**
Prep Date: Analysis Date: **6/17/2020** SeqNo: **2420471** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20	1.0	20.00	0	99.9	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	91.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		94.8	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.5		10.00		95.0	70	130			
Surr: Toluene-d8	9.8		10.00		98.4	70	130			

Sample ID: **2006771-001amsd** SampType: **MSD** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BW-1** Batch ID: **R69714** RunNo: **69714**
Prep Date: Analysis Date: **6/17/2020** SeqNo: **2420474** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.0	70	130	2.22	20	
Toluene	21	1.0	20.00	0.4442	105	70	130	0.290	20	
Chlorobenzene	20	1.0	20.00	0	102	70	130	0.531	20	
1,1-Dichloroethene	19	1.0	20.00	0	96.3	70	130	3.66	20	
Trichloroethene (TCE)	17	1.0	20.00	0	85.3	70	130	6.76	20	
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.2	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130	0	0	
Surr: Dibromofluoromethane	9.3		10.00		92.9	70	130	0	0	
Surr: Toluene-d8	10		10.00		101	70	130	0	0	

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R69714** RunNo: **69714**
Prep Date: Analysis Date: **6/17/2020** SeqNo: **2420513** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.3	70	130			
Toluene	20	1.0	20.00	0	102	70	130			
Chlorobenzene	20	1.0	20.00	0	101	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	98.5	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	86.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.0		10.00		89.7	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		105	70	130			
Surr: Dibromofluoromethane	9.1		10.00		90.8	70	130			
Surr: Toluene-d8	9.6		10.00		96.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2006771**
29-Jun-20

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

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **W69735**	RunNo: **69735**
Prep Date:	Analysis Date: **6/18/2020**	SeqNo: **2421170** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2006771**
29-Jun-20

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

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **W69735**	RunNo: **69735**
Prep Date:	Analysis Date: **6/18/2020**	SeqNo: **2421170** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.7	70	130			
Surr: Dibromofluoromethane	11		10.00		112	70	130			
Surr: Toluene-d8	11		10.00		108	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **W69735**	RunNo: **69735**
Prep Date:	Analysis Date: **6/18/2020**	SeqNo: **2421171** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	108	70	130			
Toluene	21	1.0	20.00	0	104	70	130			
Chlorobenzene	21	1.0	20.00	0	106	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2006771**
29-Jun-20

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

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **W69735** RunNo: **69735**
Prep Date: Analysis Date: **6/18/2020** SeqNo: **2421171** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23	1.0	20.00	0	113	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	99.5	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		110	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.3	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.9	70	130			
Surr: Toluene-d8	11		10.00		106	70	130			

Sample ID: **2006771-013ams** SampType: **MS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-13** Batch ID: **W69735** RunNo: **69735**
Prep Date: Analysis Date: **6/18/2020** SeqNo: **2421176** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	110	2.0	40.00	78.62	75.3	70	130			
Toluene	42	2.0	40.00	0	106	70	130			
Chlorobenzene	43	2.0	40.00	0	106	70	130			
1,1-Dichloroethene	42	2.0	40.00	0	106	70	130			
Trichloroethene (TCE)	40	2.0	40.00	0	100	70	130			
Surr: 1,2-Dichloroethane-d4	21		20.00		103	70	130			
Surr: 4-Bromofluorobenzene	18		20.00		90.5	70	130			
Surr: Dibromofluoromethane	20		20.00		101	70	130			
Surr: Toluene-d8	22		20.00		111	70	130			

Sample ID: **2006771-013amsd** SampType: **MSD** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-13** Batch ID: **W69735** RunNo: **69735**
Prep Date: Analysis Date: **6/18/2020** SeqNo: **2421177** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	110	2.0	40.00	78.62	71.1	70	130	1.58	20	
Toluene	36	2.0	40.00	0	91.1	70	130	15.3	20	
Chlorobenzene	40	2.0	40.00	0	100	70	130	5.92	20	
1,1-Dichloroethene	39	2.0	40.00	0	96.5	70	130	9.49	20	
Trichloroethene (TCE)	35	2.0	40.00	0	88.2	70	130	12.7	20	
Surr: 1,2-Dichloroethane-d4	21		20.00		104	70	130	0	0	
Surr: 4-Bromofluorobenzene	19		20.00		96.9	70	130	0	0	
Surr: Dibromofluoromethane	19		20.00		94.8	70	130	0	0	
Surr: Toluene-d8	20		20.00		102	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2006771**

29-Jun-20

Client: Daniel B. Stephens & Assoc.

Project: Former Y Station

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A69766**	RunNo: **69766**
Prep Date:	Analysis Date: **6/19/2020**	SeqNo: **2422080** 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								
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.0	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	11		10.00		106	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **A69766**	RunNo: **69766**
Prep Date:	Analysis Date: **6/19/2020**	SeqNo: **2422081** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130			
Toluene	20	1.0	20.00	0	99.2	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		108	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.2	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	11		10.00		106	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **Daniel B. Stephens & Assoc.** Work Order Number: **2006771** RcptNo: 1

Received By: **Desiree Dominguez** **6/15/2020 1:30:00 PM** DD

Completed By: **Desiree Dominguez** **6/15/2020 2:36:57 PM** DD

Reviewed By: EM 6/15/20

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: JR 6/15/20

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	5.2	Good	Not Present			

Chain-of-Custody Record

Client: DBS+A

Mailing Address: ABQ Office

Phone #: 505-249-9402

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

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush_____

Project Name: Former Y Station

Project #: DB18.1157.02.6WM20.2001

Project Manager: Tom Golden

Sampler: Kyle Morgan

On Ice: ☐ Yes ☑ No

# of Coolers: 1

Cooler Temp(including CF): 5.1 +0.1 = 5.2 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2006771	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) 8260B	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6-9-20	1583	GW	BW-1	5 VOA	HCl/MeOH 25203	-001				X				X		
6-9-20	1123		BW-2			-002				X				X		
6-9-20	0932		BW-3			-003				X				X		
6-10-20	1830		BW-4	6 VOA		-004				X				X		
6-9-20	1342		BW-6	5 VOA		-005				X				X		
6-12-20	1144		~~AA~~ BW-7			-006				X				X		
6-11-20	0946		BW-7R			-007				X				X		
6-13-20	1748		BW-8			-008				X				X		
6-9-20	1722		BW-9			-009				X				X		
6-10-20	1158		BW-10			-010				X				X		
6-11-20	1523		MW-11			-011				X				X		
6-10-20	1608		MW-12			-012				X				X		

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/14/20	2100				6/15/20	0900
6/15/20	1330			CDO	6/15/20	13:30

Remarks:

Chain-of-Custody Record

Client: DBS+A

Mailing Address:

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Former Y Station

Project #: DB18.1157.00. (GWM20.2001)

Project Manager: T. Golden

Sampler:

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.1+0.1=5.2 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2006771
6-12-20	1027	GW	MW-13	5 VOA	HCl + NA2S2O3	-013
6-10-20	1553		MW-14			-014
6-11-20	1841		MW-15			-015
6-11-20	1841		MW-16			-016
6-11-20	1529		MW-17			-017
6-13-20	0843		RW-1			-018
6-14-20	1002		RW-2			-019
6-13-20	1031		RW-3			-020
6-12-20	1347		RW-4	6 VOA		-021
6-13-20	1635		BW-8 Deep HS	5 VOA		-022
6-13-20	1630		BW-8 Shallow HS			-023
6-13-20	1155		MW-11 Deep HS			-024

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) 8260B	8270 (Semi-VOA)	Total Coliform (Present/Absent)
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		
			X				X		

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6-14-20	2100				6/15/20	0900
6/15/20	1330			CDO	6/15/20	13:30

Remarks: Page 2 of 3

Chain-of-Custody Record

Client: DBS&A

Mailing Address:

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ **Rush**

Project Name: Farmington Station

Project #: DB18.1157.00.

Project Manager: GWMZO. 2001
Tom Golden

Sampler: Y. Morgan

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.1+0.1=5.2 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2006771	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) SDGB	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6/8/20	1150	GW	MW-11 Shallow Hts	5 VOA	HCl & NA2S2O3	-025				X	X			X		
6/8/20	1300		MW-14 Deep Hts			-026				X	X			X		
6/8/20	1355		MW-14 Shallow Hts			-027				X	X			X		
Lab			Trip Blank	3 VOA	"	-028										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/14/20	2100				6/15/20	0900
6/15/20	1330			CDO	6/15/20	13:30

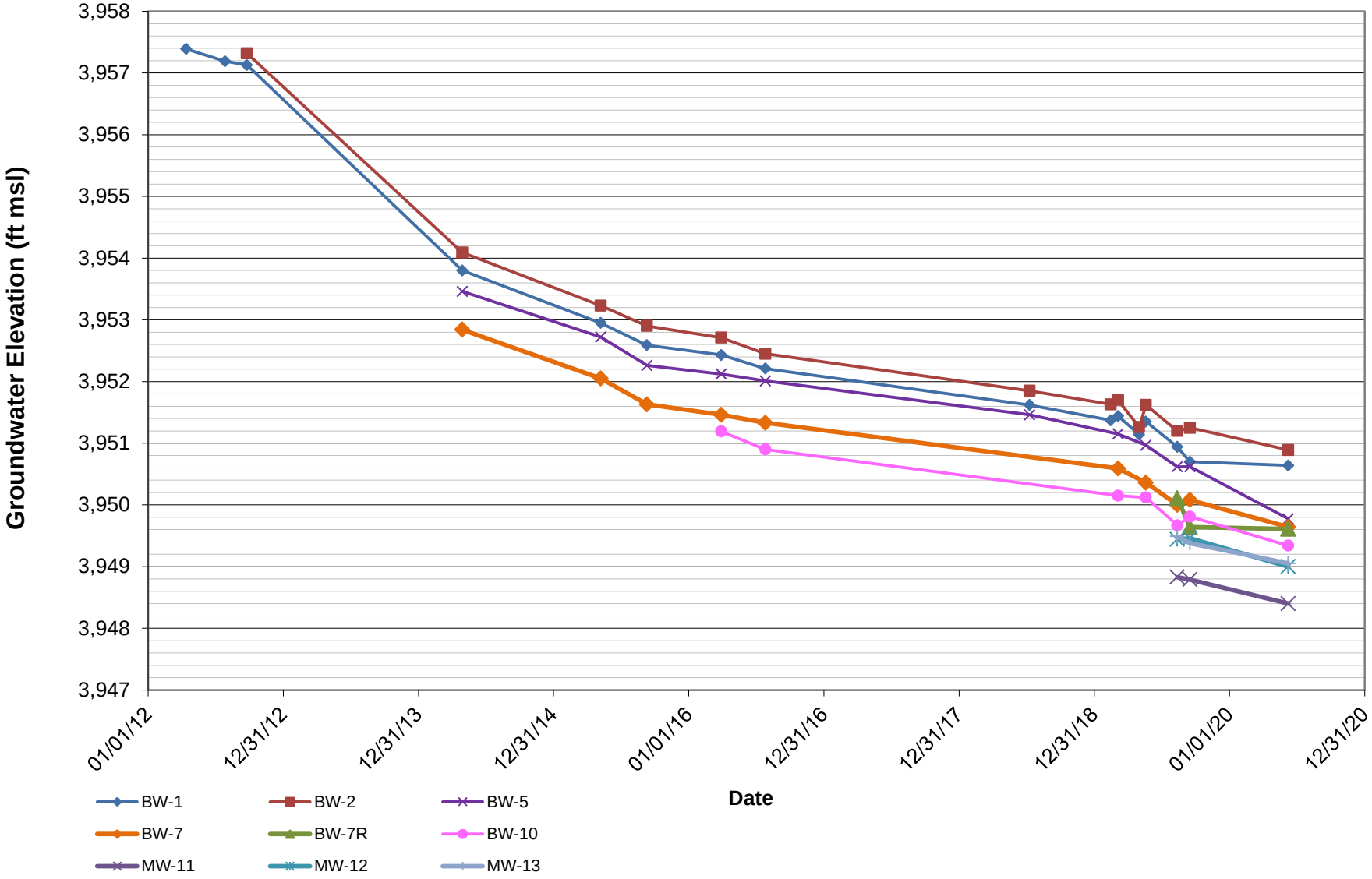
Remarks: Page 3 of 3

Appendix I

Time-Series Graphs

Groundwater Elevations

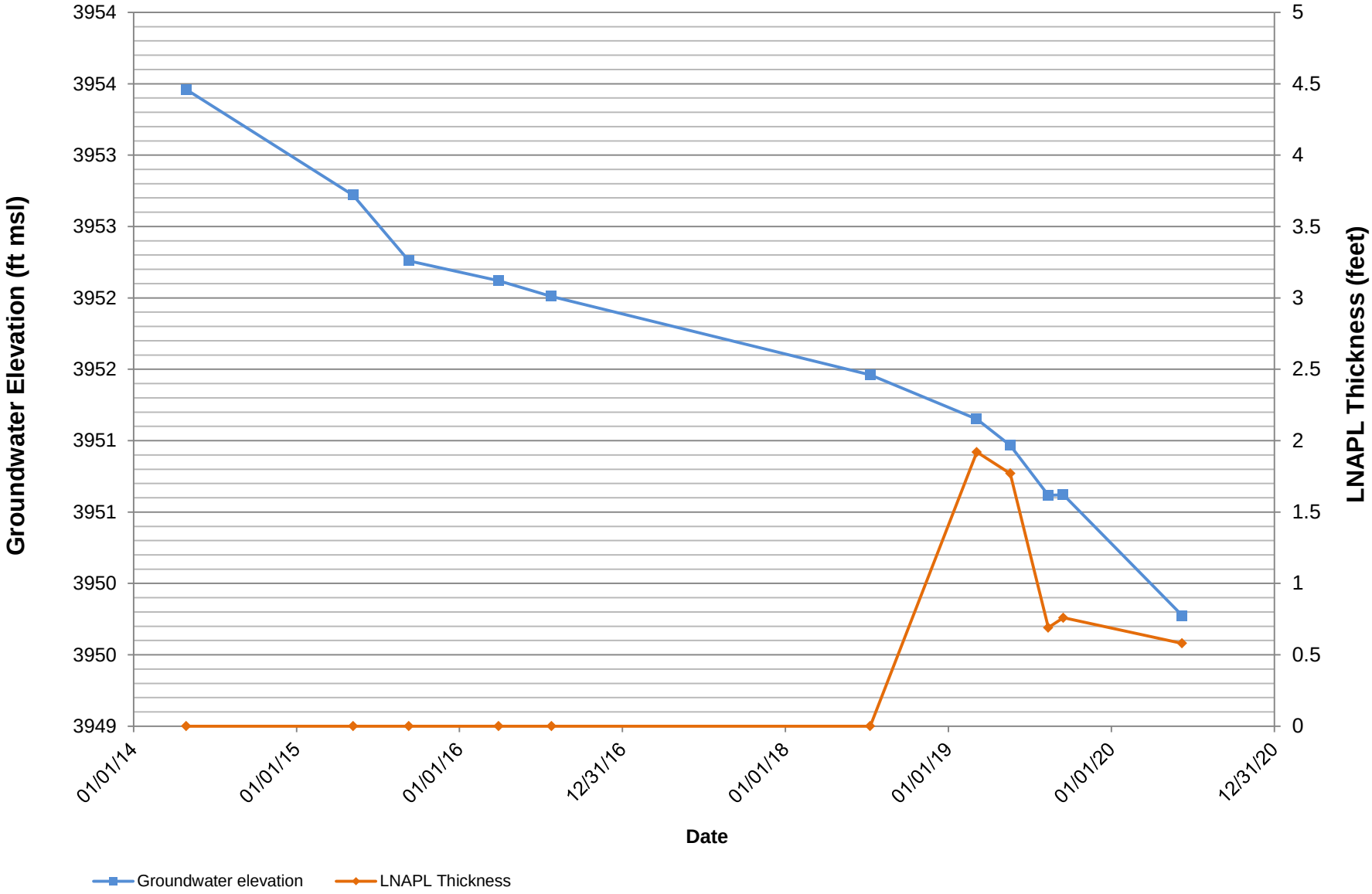
Former Y Station State Lead Site, Clovis, New Mexico



S:\Projects\DB18.1157_Former_Y_Station\Docs\Tables for Reports\Appx_Charts.xls GW Elevations

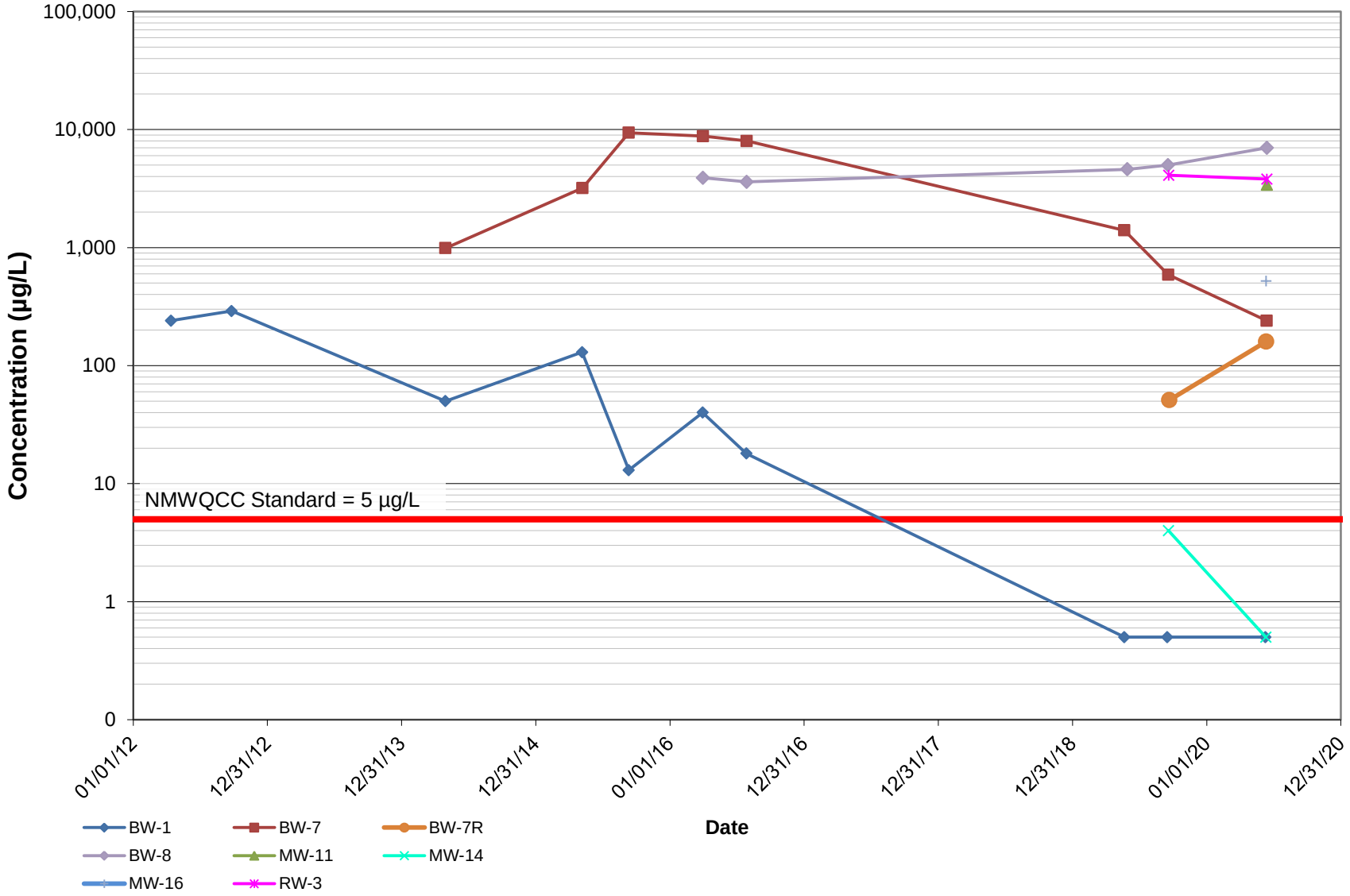
BW-5 Fluid Levels

Former Y Station State Lead Site, Clovis, New Mexico



Benzene Concentrations

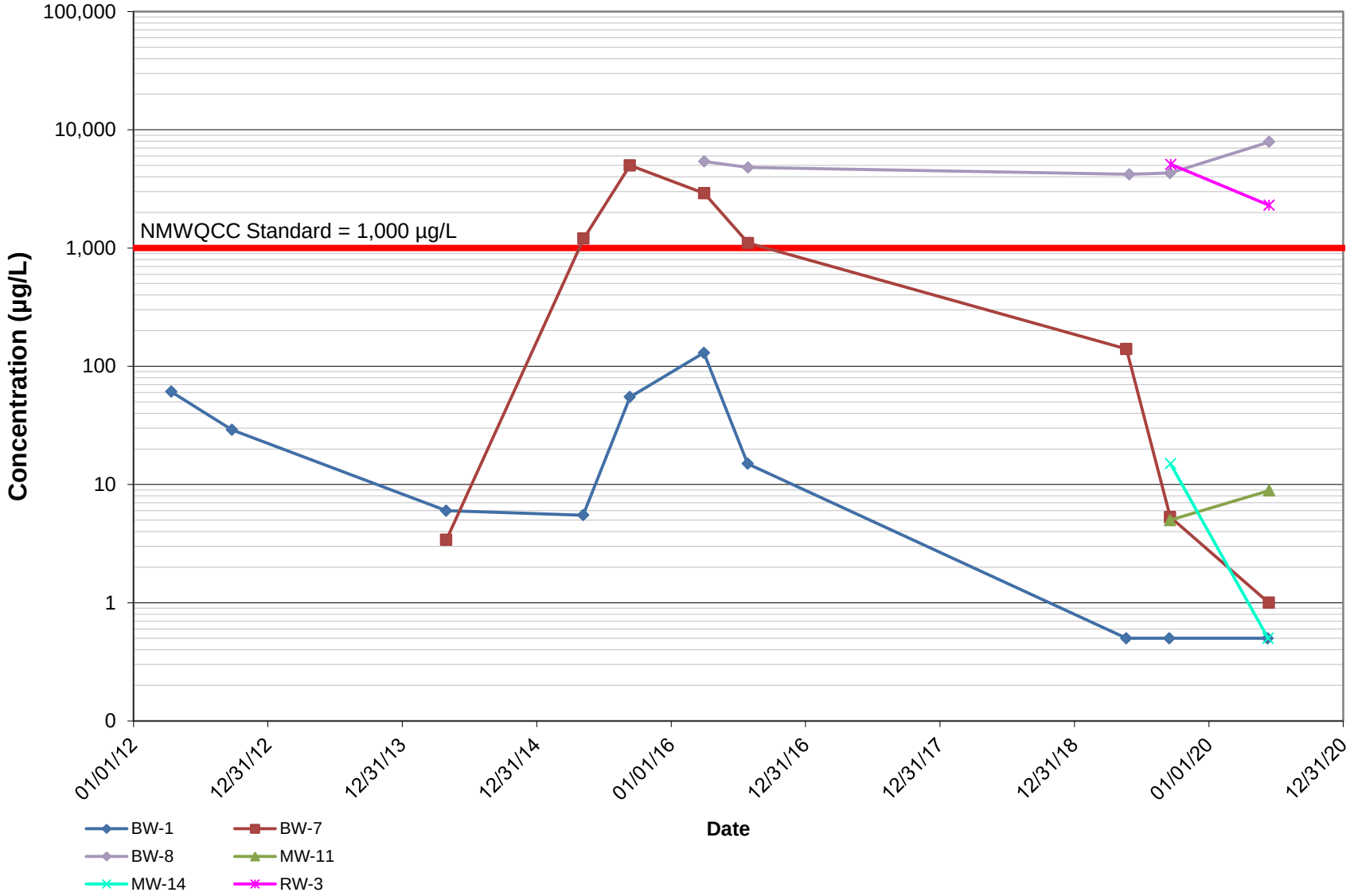
Former Y Station State Lead Site, Clovis, New Mexico



S:\Projects\DB18.1157_Former_Y_Station\Docs\Tables for Reports\Appx_Charts.xls Benzene

Toluene Concentrations

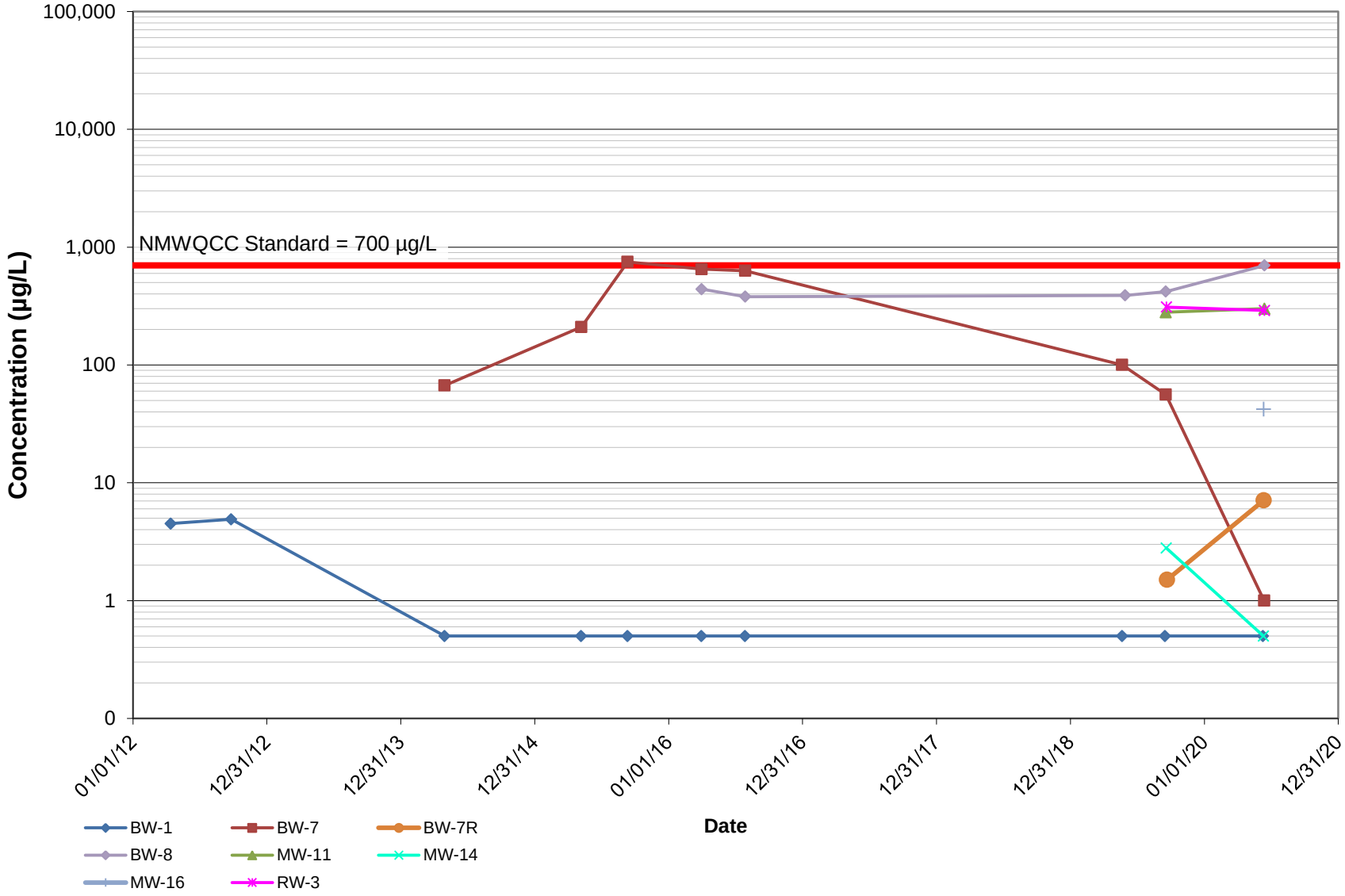
Former Y Station State Lead Site, Clovis, New Mexico



S:\Projects\DB18.1157_Former_Y_Station\Docs\Tables for Reports\Appx_Charts.xls Toluene

Ethylbenzene Concentrations

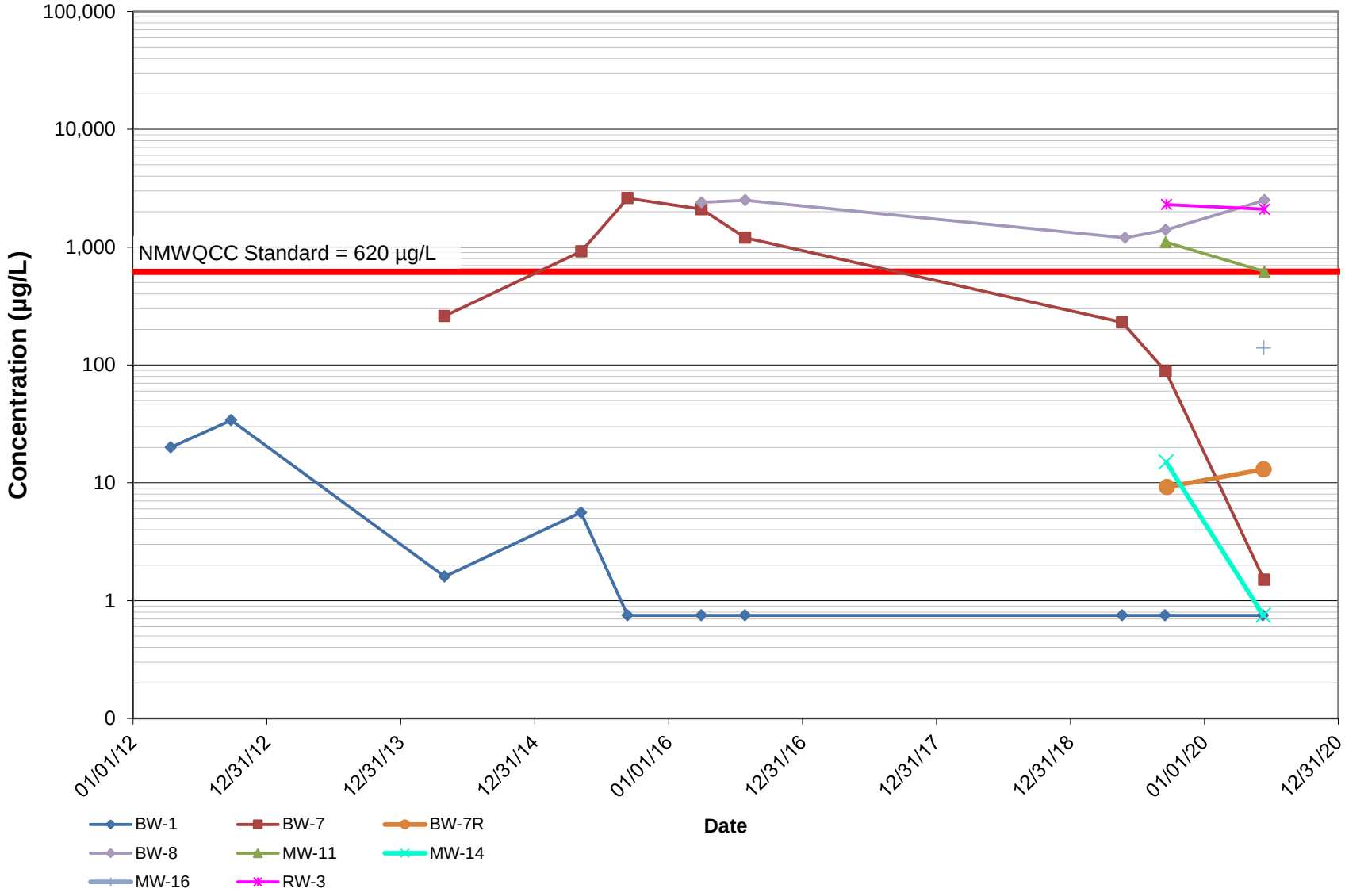
Former Y Station State Lead Site, Clovis, New Mexico



S:\Projects\DB18.1157_Former_Y_Station\Docs\Tables for Reports\Appx_Charts.xls Ethylbenzene

Total Xylene Concentrations

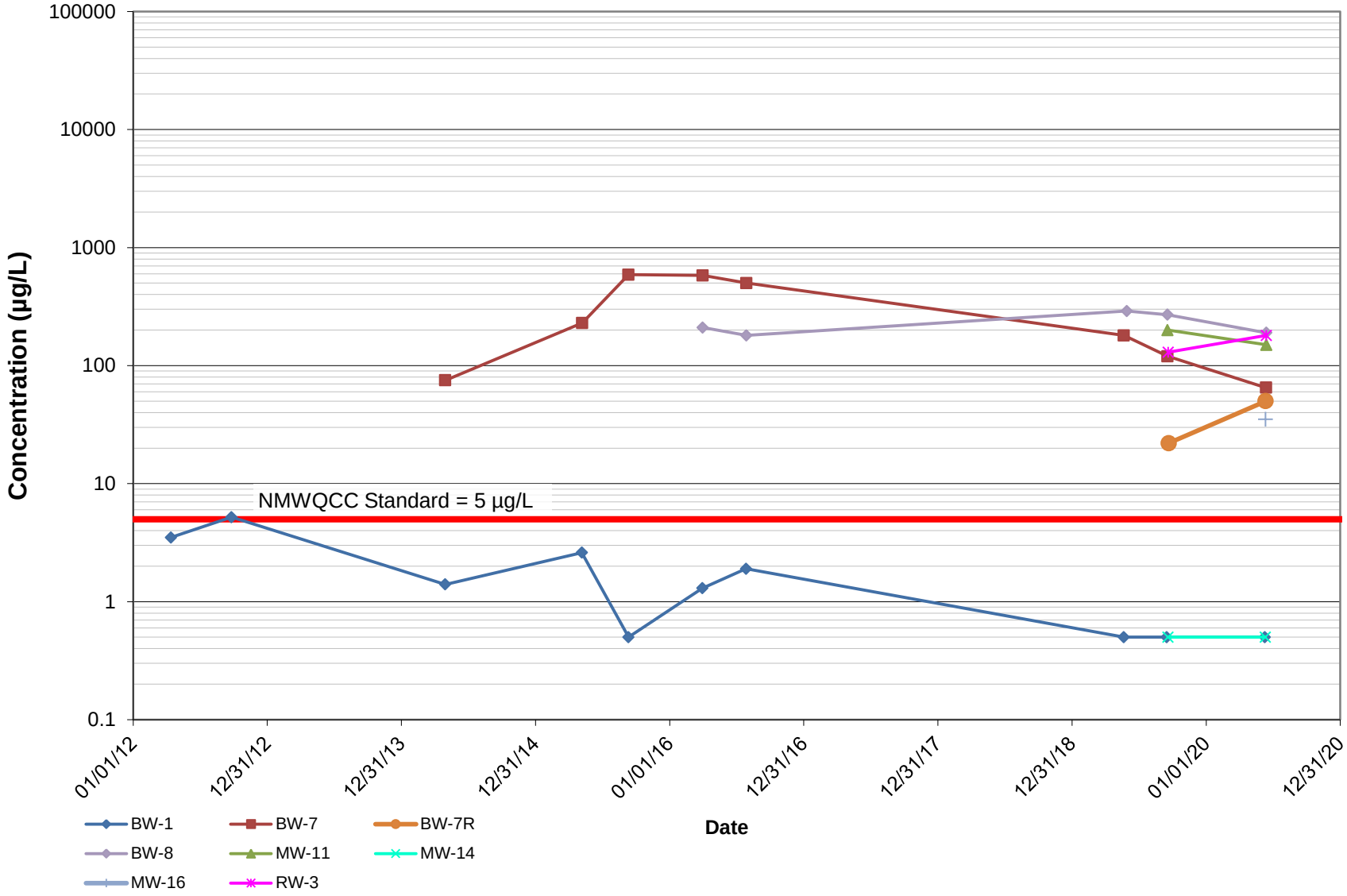
Former Y Station State Lead Site, Clovis, New Mexico



S:\Projects\DB18.1157_Former_Y_Station\Docs\Tables for Reports\Appx_Charts.xls Xylenes

EDC Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



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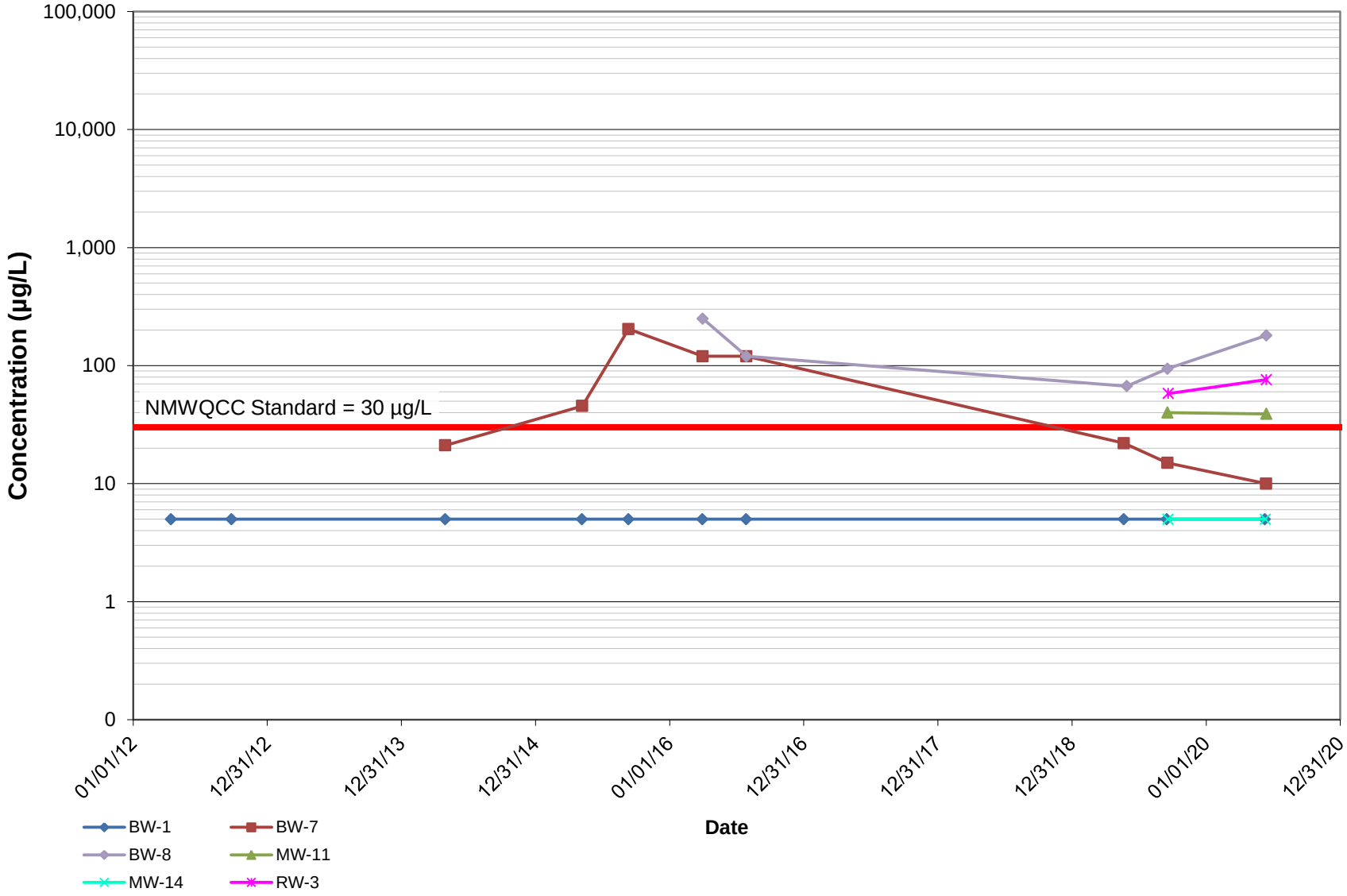
Total Naphthalene Concentrations

Former Y Station State Lead Site, Clovis, New Mexico



S:\Projects\DB18.1157_Former_Y_Station\Docs\Tables for Reports\Appx_Charts.xls Naphthalenes