

REVIEWED

By Mike Buchanan at 3:34 pm, Jun 12, 2024

ANNUAL GROUNDWATER MONITORING REPORT

LANGILE MATTIX PENROSE SAND UNIT TRASH PIT 1RP-3360 UNIT O, SECTION 27, TOWNSHIP 22S, RANGE 37E **EDDY COUNTY, NEW MEXICO** 32.357998, -103.147318 **RANGER REFERENCE NO. 5375**

Review of the Annual Groundwater Monitoring Report for Langile Mattix Penrose Sand Unit Trash Pit: content satisfactory

- 1. Continue to sample groundwater on a semi-annual basis/schedule as previously approved for COCs.
- 2. Sampling method may be changed to Hydrasleeve, or other passive sampling technique. Please include those details on which method in the next annual groundwater report to OCD.
- of TDS and chloride in groundwater at the site from the release.
- 4. Submit the 2024 Annual Groundwater Report with recommendations by April 1, 2025.

PREPARED FOR:

TEAM OPERATING PO BOX 835 PINEHURST, TEXAS 77362

PREPARED BY:

3. Propose an option for remediation R ENVIRONMENTAL SERVICES, LLC P.O. BOX 201179 **AUSTIN, TEXAS 78720**

APRIL 26, 2024

Patrick K. Finn, P.G. (TX) **Project Geoscientist**

William Kierdorf, REM **Project Manager**

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- Attachment 2 Laboratory Analytical Reports
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ANNUAL GROUNDWATER MONITORING REPORT LANGILE MATTIX PENROSE SAND UNIT TRASH PIT 1RP-3360 UNIT O, SECTION 27, TOWNSHIP 22S, RANGE 37E LEA COUNTY, NEW MEXICO 32.357998, -103.147318 **RANGER REFERENCE NO. 5375**

Ranger Environmental Services, LLC (Ranger) was retained by Team Operating, LLC in November 2023 to assist in the second 2023 semi-annual groundwater monitoring event at the Langile Mattix Penrose Sand Unit Trash Pit ("subject site"). The monitoring event was conducted by Ranger on December 20, 2023. This Annual Groundwater Monitoring Report has been prepared in order to document the completion of the 2023 site groundwater monitoring activities.

In March 2024, Ranger corresponded with Mr. Mike Buchanan of the New Mexico Oil Conservation Division (NMOCD) and requested a 30-day extension to allow for preparation of this report. On March 26, 2024, Mr. Buchanan approved the 30-day extension (copy attached). Notification of the December 20, 2023 groundwater monitoring event was submitted to the NMOCD on December 14, 2023.

This report also presents the results of the June 9, 2023 groundwater monitoring activities conducted at the subject site by Larson & Associates, Inc. (LAI). The June 9, 2023 groundwater monitoring event results were previously presented in the LAI-prepared 2023 1st Semi-Annual (January-June) Groundwater Monitoring Report, dated July 24, 2023. This information has been re-presented in this report in order to bring the site reporting into accordance with the September 2023 NMOCD approval of a semi-annual groundwater monitoring schedule with associated annual reporting.

Attached are a Topographic Map and aerial Area Map which illustrate the location of the subject site and surrounding areas. Also attached is a Site Map which illustrates pertinent site features and the locations of the monitoring wells installed at the subject site.

1.0 SITE LOCATION AND BACKGROUND

The subject site is a historic oil and gas location situated approximately 5.5 miles south-southeast of Eunice, in Lea County, New Mexico. The Site is situated in Unit O, Section 27, Township 22 South, Range 27 East, at approximate GPS coordinates 32.357998, -103.147318.

On May 16, 2011, the NMOCD issued a letter to the current and past operators of the subject site that referenced a complaint from a nearby landowner that burial of miscellaneous refuse and debris had occurred at the Site. In order to investigate the allegations, Etech Environmental & Safety Solutions, Inc. (Etech) was retained by the operator at that time (Legacy) to investigate the site. Etech used a metal detector to identify locations where metallic waste may have been buried and excavated five (5) locations to a maximum depth of about 20 feet below ground surface (bgs).

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Waste and debris were excavated and segregated from the soil. The waste was disposed at a permitted facility and about 7,500 to 9,000 cubic yards of soil was retained on the Site. Etech installed monitoring well MW-1 in 2013, about 50 feet southwest of the subject site. The monitoring well was drilled to about 64 feet bgs; however, no construction documentation is available for MW-1.

In March 2014, LAI was retained to complete the investigation and close the excavations. Total petroleum hydrocarbon (TPH) concentrations above the action level of 100 mg/Kg was documented in nine (9) bottom and 13 side samples. Chloride concentrations in excess of 250 mg/Kg were documented in the excavation bottom and in six (6) side samples. Fifteen (15) soil borings were subsequently installed and sampled to delineate the vertical and horizontal extent of the TPH and chloride soil impacts. The vertical and lateral extent of the TPH impacts were ultimately delineated by the soil borings. However, chloride concentrations in excess of 250 mg/Kg were unable to be vertically delineated in nine of the boring locations (such as the 3,530 mg/Kg chloride impact at a depth of 35 feet in soil boring SB-3) and as such suggested the impacts had migrated to groundwater.

Approximately 1,630 cubic yards of soil was subsequently disposed at Sundance Services, located east of Eunice, New Mexico. On August 1, 2014, OCD District 1 in Hobbs, New Mexico, approved closing the excavations by installing a 20 mil thickness polyethylene liner in the bottom of the excavations, at a minimum depth of four (4) feet bgs, and filling with soil from the remaining on-site stockpiles. A layer of clean sand was placed over the liner prior to filling with soil from the stockpiles in order to protect the liner. Excavation closure was completed on August 30, 2014.

On May 11, 2014, LAI personnel collected groundwater samples from monitor well MW-1. Benzene, toluene, ethylbenzene and xylenes (BTEX) were found to be below the laboratory method reporting limits. Chloride and TDS were found to exceed the WQCC water quality standards of 250 mg/L and 1,000 mg/L, respectfully. Two (2) historic emergency pits (closed) located north of monitor well MW-1 were excavated with the trash pit and were suspected as the source for the chloride and TDS groundwater impacts in MW-1.

Based upon the above, on June 12, 2014 and April 15, 2015, three additional site monitoring wells were installed (MW's 2-4). From 2015 to 2023, quarterly groundwater monitoring and semi-annual reporting activities were conducted. In their 2023 1st Semi-Annual (January-June) Groundwater Monitoring Report, dated July 24, 2023, LAI proposed to reduce the monitoring frequency from quarterly to semi-annual events.

In a September 14, 2023 email, the NMOCD approved of the proposed reduction in monitoring frequency (from quarterly to semiannual) since the groundwater plume had been documented to be stable. The NMOCD response also approved the discontinuance of sampling for nitrate (due to lack of any nitrate impacts) and requested the submittal of a 2023 annual groundwater monitoring report on or before April 1, 2024.

Copies of the historic files for the subject site are available via the NMOCD online portal:

(https://ocdimage.emnrd.nm.gov/imaging/AEOrderFileView.aspx?appNo=pTO1427255423)



2.0 GROUNDWATER MONITORING (JUNE & DECEMBER 2023)

Groundwater monitoring events were conducted at the subject site in June and December, 2023. Ranger has compiled and attached cumulative tables of the site well gauging and groundwater analytical data. Also attached are groundwater gradient and chloride and TDS isoconcentration maps for each event, as well as copies of the laboratory analytical reports for the June and December 2023 sampling events. As summarized above, the June 2023 sampling event was conducted by LAI and the December 2023 event was conducted by Ranger. Full details of the June 2023 sampling event were also provided in the LAI-prepared 2023 1st Semi-Annual (January-June) Groundwater Monitoring Report, dated July 24, 2023.

2.1 June 2023 Groundwater Sampling Methodologies

Based on the available information, the four site monitor wells were gauged on June 8, 2023 and groundwater samples were collected from the wells on June 9, 2023. The LAI prepared 2023 1st Semi-Annual (January-June) Groundwater Monitoring Report, dated July 24, 2023, included the following information regarding the groundwater sample collection methodologies employed at the site:

"Groundwater samples were collected using the low stress or low flow method according to EPA protocol (EQASOP-GW4, Revision 4, September 19, 2017) where an environmental pump is submerged near the middle of the water column and the well is pumped at a low rate until environmental parameters stabilize. Groundwater samples were collected from discharge through dedicated disposable Tygon® tubing. The tubing was discarded after each use and the pump was thoroughly cleaned with a solution of potable water and laboratory-grade detergent (Alconox®) and rinsed with distilled water."

In additional to the samples collected from the four monitor wells at the Site, a duplicate sample for laboratory analysis was collected from monitor well MW-2 for comparative purposes.

Upon collection, the groundwater samples were submitted for laboratory analysis at DHL Analytical, Inc. (DHL), in Round Rock, Texas. The samples were analyzed for BTEX using laboratory Method SW-8260D, cations (calcium, magnesium, potassium, and sodium) using Method SW-6020B, anions (chloride and sulfate) using EPA Method 300, alkalinity utilizing EPA Method M-2320B, and TDS utilizing EPA Method M-2540C.

2.2 December 2023 Groundwater Sampling Methodologies

Prior to initiating the well gauging and sampling activities on December 20, 2023, the site monitoring wells were opened and allowed to equilibrate for approximately 30 minutes. The monitoring wells were then gauged with a decontaminated interface probe to determine the depth to groundwater in each monitor well, and any light non-aqueous phase liquid (LNAPL) thicknesses, if any. This data was utilized to determine the site groundwater flow direction and gradient.

During the December 2023 monitoring event, Ranger personnel had intended to utilize low-flow groundwater sampling techniques. However, due to equipment failure, only one monitor well (MW-2) was able to be sampled using low-flow techniques. During the sampling of MW-2, a groundwater sample and duplicate were collected using low-flow sampling techniques. The well was purged and sampled using a low flow rate (0.026 to 0.264 gpm) that minimized drawdown. The pump-intake was located in the middle or slightly above the middle of the saturated screened



interval. The well was purged until the field water quality parameters (i.e., pH, temperature, and conductivity) stabilized. Parameters were considered to have stabilized if, over three consecutive readings, the following criteria were met:

- pH ±0.1 unit
- Temperature within 3%
- Conductivity within 3%

Following the completion of the MW-2 sampling activities, the low-flow pump failed and attempts to repair the pump in the field were unsuccessful. Due to the pump failure, the remaining three wells (MW-1, MW-3, and MW-4) were unable to be sampled utilizing low-flow sampling techniques. As such, passive grab samples were collected from these three wells using new disposable bailers.

All sample containers were filled with minimal turbulence. Due to sample turbidity, the samples collected for dissolved metals analysis were first field-filtered through a 10-micron pore size filter. Ranger personnel wore new nitrile gloves while handling each sample in order to prevent cross-contamination of samples.

All samples were containerized using properly selected and cleaned containers, which were preserved by the laboratory as needed for the particular analysis to be performed. All VOC sample vials were filled completely to minimize head space. The samples were subsequently sealed in one or more ziplock bags and stored in a sample shuttle containing ice until arrival at the laboratory for chemical analysis. All sample containers were labeled with the project name, sample identification, date and time of sample collection, and samplers' initials. Chain-of-custody forms were completed to document sample transport to the analytical laboratory.

The groundwater samples were subsequently submitted to Hall Environmental Analysis Laboratory, Inc. in Albuquerque, new Mexico for chemical analysis. The samples were analyzed for BTEX using EPA Method 8021B, dissolved metals (calcium, magnesium, potassium, and sodium) using EPA Method 6010B, anions (chloride and sulfate) using EPA Method 300, alkalinity utilizing Method SM-2320B, and total dissolved solids (TDS) utilizing Method SM-2540C.

All purge water generated during the sampling event was placed in a sealed and labeled container and was temporarily stored on-site pending off-site disposal.

2.3 Well Gauging Results

No LNAPL was documented to be present in the site monitoring wells during the June and December 2023 sampling events. During the June 2023 event the depth to groundwater in the site monitoring wells was documented to range from approximately 41.57' below top-of-casing (btoc) in MW-4 to a maximum of approximately 45.21' bgs in MW-3. During the December 2023 event the depth to groundwater in the site monitoring wells was documented to range from approximately 41.66' below top-of-casing (btoc) in MW-4 to a maximum of approximately 45.27' bgs in MW-3.

As illustrated on the attached groundwater gradient maps, the site groundwater gradient and flow direction was documented to be approximately 0.0004 ft/ft to the southeast during both the June and December 2023 monitoring events, consistent with historical observations.



2.4 Groundwater Analytical Results

- Groundwater Anions (Chloride and Sulfate): Concentrations of chloride above the NMWQCC criteria were documented in MW-1 and MW-3 during both monitoring events. A sulfate concentration above the NMWQCC criteria was documented in MW-1 during the June 2023 event. During the December 2023 event, all wells were documented to have sulfate concentrations below the NMWQCC criteria.
- Dissolved Metals (Calcium, Magnesium, Potassium, and Sodium): Results for these constituents were consistent with historical results.
- BTEX: All BTEX results were found to be nondetectable during both monitoring events, consistent with historical results.
- Alkalinity and TDS: Elevated TDS concentrations were documented in MW-1 and MW-3 during both monitoring events.

The results from the duplicate samples collected during the June and December 2023 monitoring events from monitor well MW-2 were consistent with the MW-2 results and indicate that the data are usable and valid. The results from monitor wells MW-1, MW-3, and MW-4, from which passive grab samples were collected using new disposable bailers (due to the low-flow pump failure), were highly comparable to the historic results from these wells.

In summary, the June and December 2023 groundwater monitoring results were consistent with historical observations and indicative of a stable condition.

3.0 CONCLUSIONS AND RECOMMENDATIONS

- The June and December 2023 groundwater monitoring results were consistent with historic results and indicative of stable conditions.
- Monitor well MW-1, located to the south and down gradient of the former pit area, continues to exhibit the most elevated chloride and TDS concentrations at the site. The results from monitor well MW-2, located to the north and upgradient of the former pit area, continue to exhibit what appears to be background chloride and TDS concentrations.
- Ranger recommends the continuation of the approved semi-annual groundwater monitoring and annual reporting program. In addition, since the analytical results from MW's 1, 3, and 4 were highly comparable to the historic results from these wells, Ranger recommends that future sampling events be conducted using passive grab sampling techniques.



FIGURES

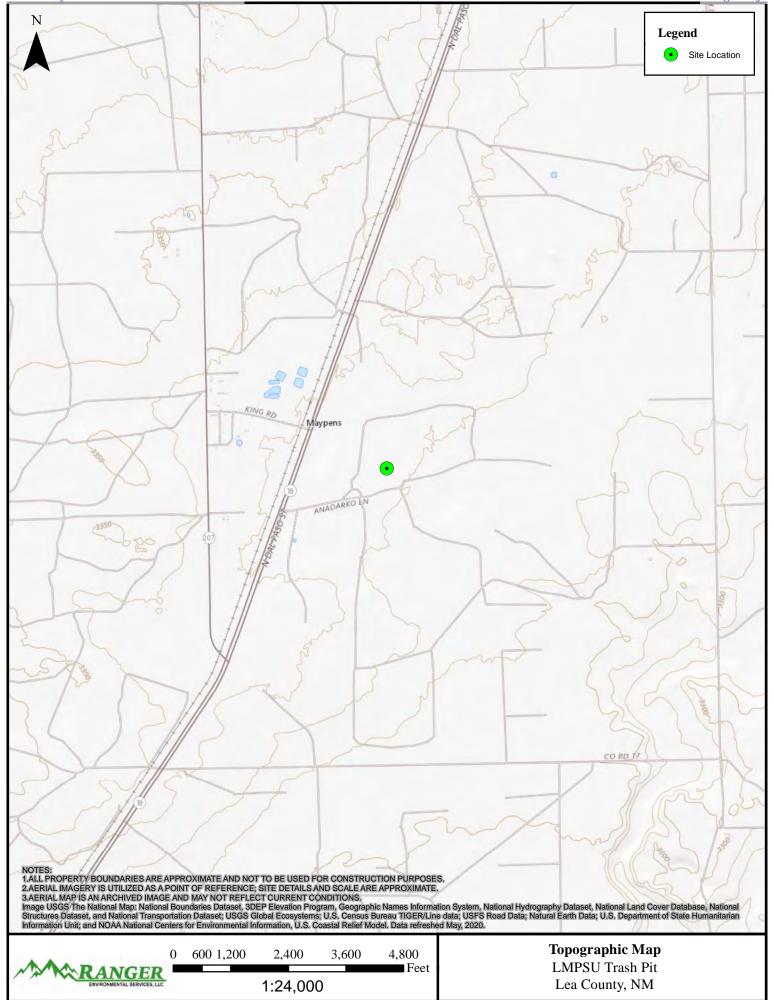
Topographic Map

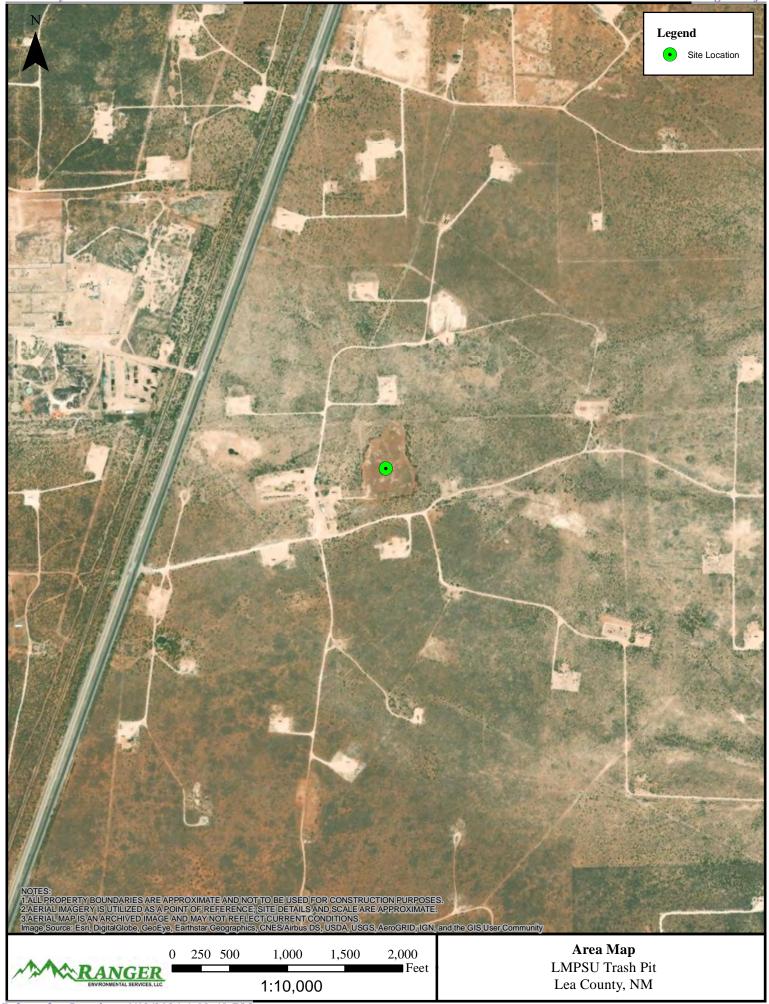
Area Map

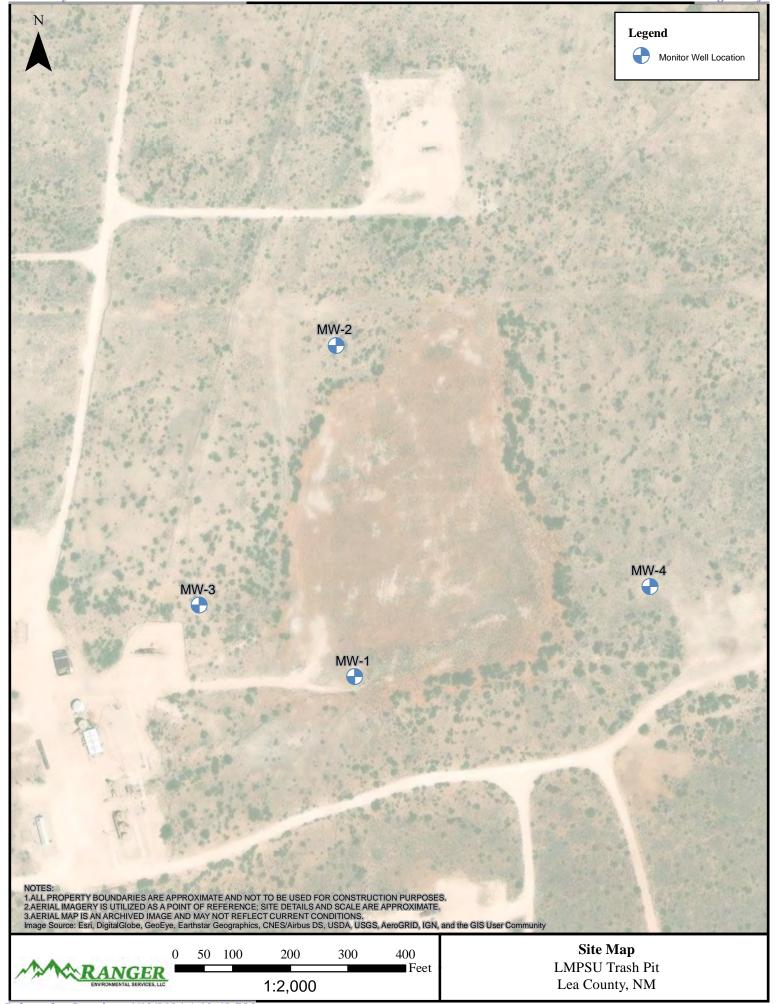
Site Map

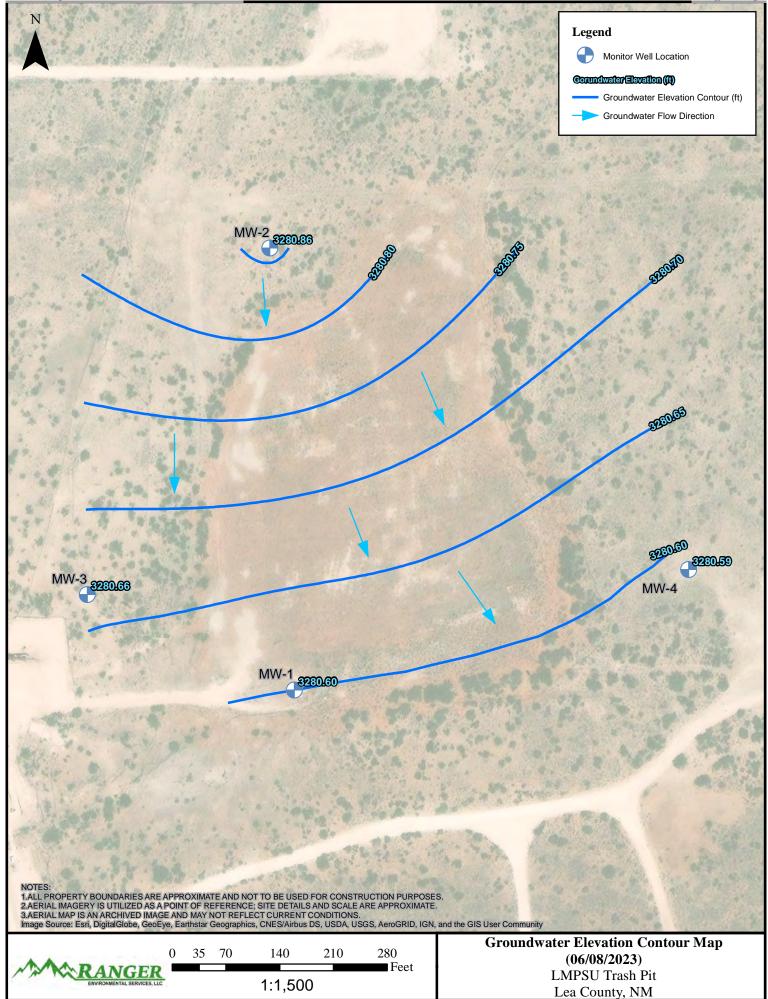
Groundwater Gradient Maps

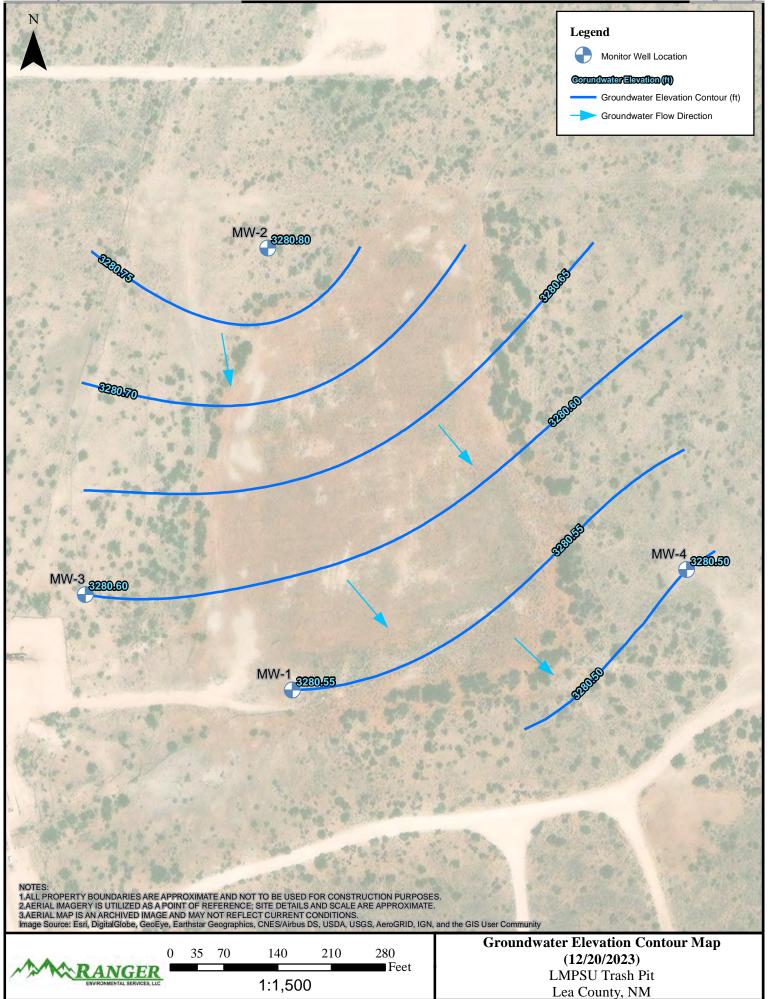
Groundwater TDS and Chloride Isoconcentration Maps

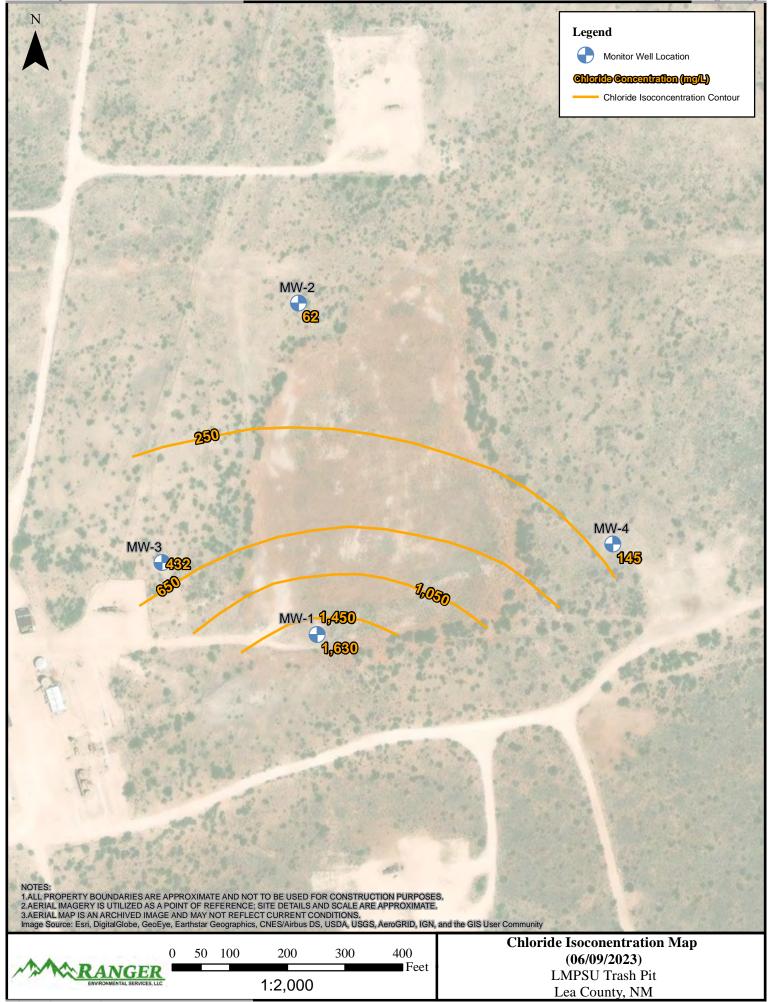


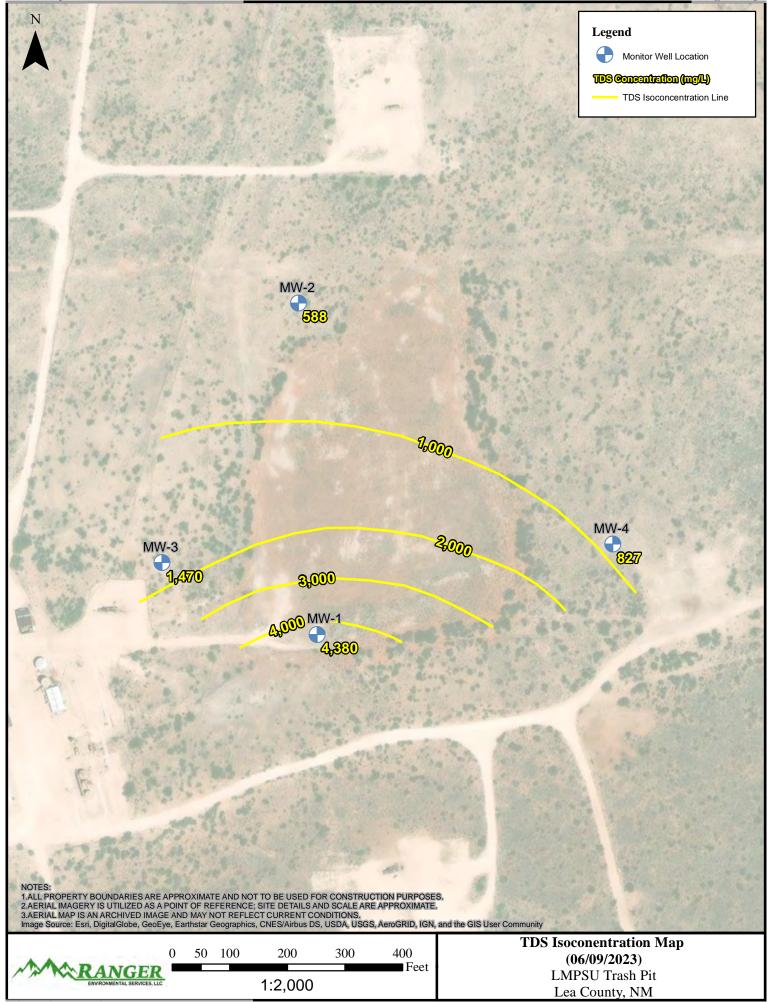


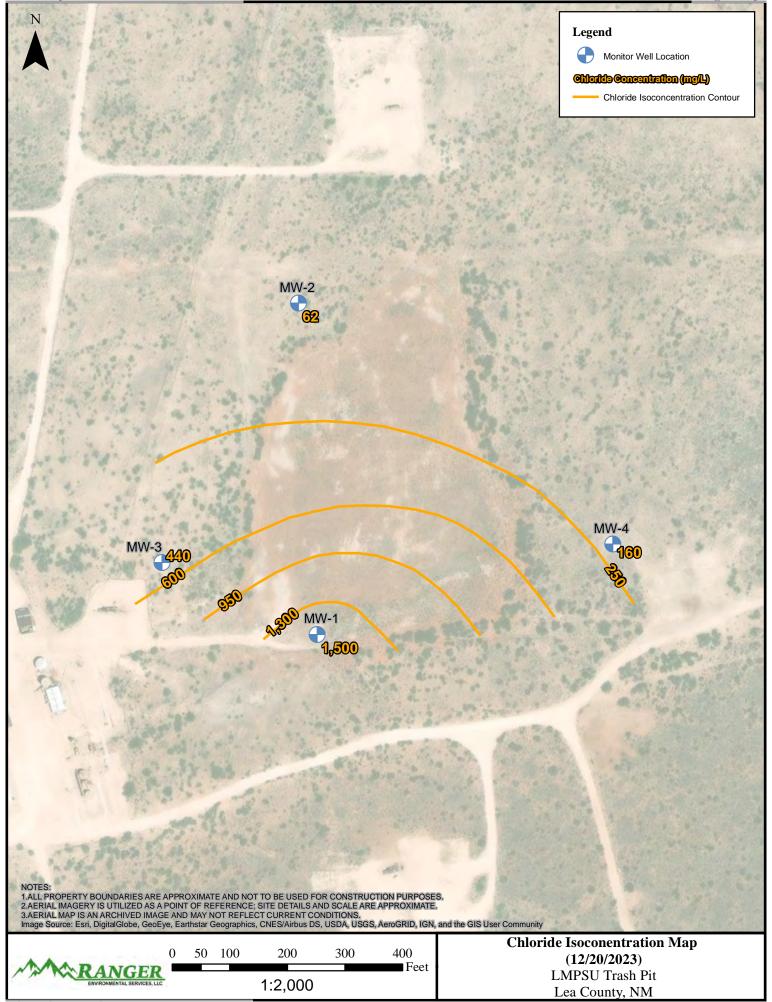


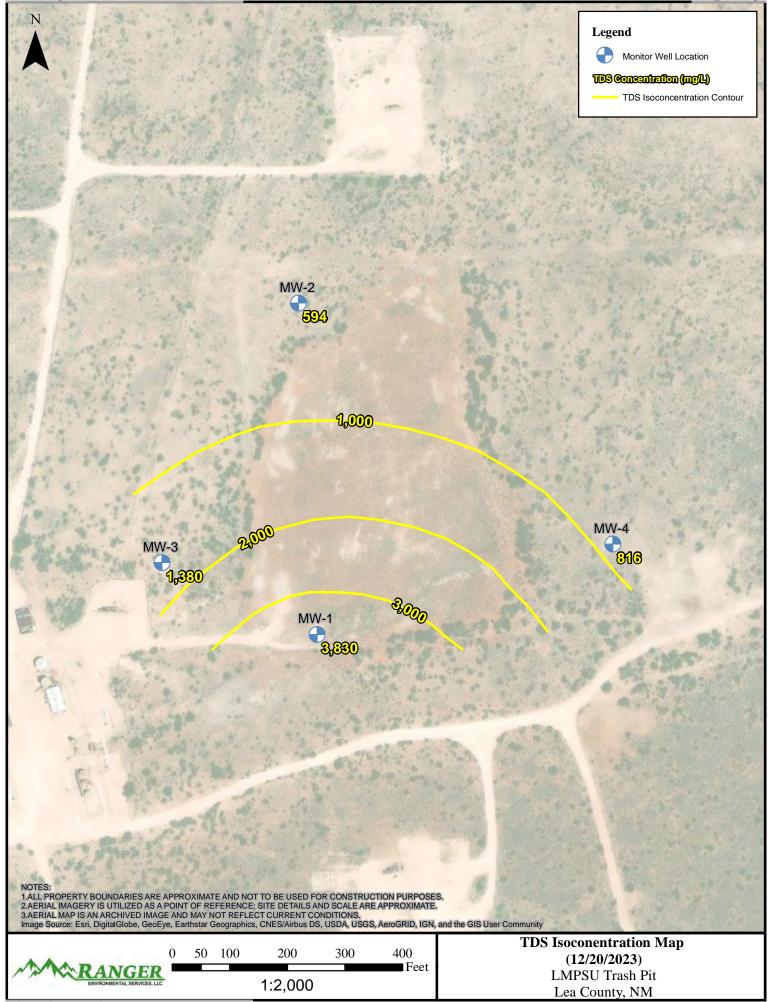












TABLES

Cumulative Well Gauging Data Cumulative Groundwater Analytical Summary Table

| WELL NUMBER | DATE | CASING ELEV. (FT) | DEPTH TO WATER (FT-BTOC) | LNAPL THICKNESS (FT) | GW ELEVATION (FT) | SCREENED INTERVAL (FT-BGS) |
|----------------|------------|----------------------|--------------------------------|----------------------------|-------------------------|----------------------------------|
| MW-1 | 1/28/2015 | 3324.09 | 43.79 | 0.00 | 3280.30 | |
| MW-1 | 6/1/2015 | 3324.09 | 43.69 | 0.00 | 3280.40 | |
| MW-1 | 8/18/2015 | 3324.09 | 46.60 | 0.00 | 3277.49 | |
| MW-1 | 9/11/2015 | 3324.09 | 43.60 | 0.00 | 3280.49 | |
| MW-1 | 12/3/2015 | 3324.09 | 42.55 | 0.00 | 3281.54 | |
| MW-1 | 3/17/2016 | 3324.09 | 43.45 | 0.00 | 3280.64 | |
| MW-1 | 7/19/2016 | 3324.09 | 43.46 | 0.00 | 3280.63 | |
| MW-1 | 8/26/2016 | 3324.09 | 43.46 | 0.00 | 3280.63 | |
| MW-1 | 10/18/2016 | 3324.09 | 43.33 | 0.00 | 3280.76 | |
| MW-1 | 1/18/2017 | 3324.09 | 43.35 | 0.00 | 3280.74 | |
| MW-1 | 4/25/2017 | 3324.09 | 43.47 | 0.00 | 3280.62 | |
| MW-1 | 9/13/2017 | 3324.09 | 43.28 | 0.00 | 3280.81 | |
| MW-1 | 12/19/2017 | 3324.09 | 43.28 | 0.00 | 3280.81 | |
| MW-1 | 2/26/2018 | 3324.09 | 43.28 | 0.00 | 3280.81 | |
| MW-1 | 5/7/2018 | 3324.09 | 43.28 | 0.00 | 3280.81 | |
| MW-1 | 8/2/2018 | 3324.09 | 43.33 | 0.00 | 3280.76 | |
| MW-1 | 12/10/2018 | 3324.09 | 44.39 | 0.00 | 3279.70 | |
| MW-1 | 2/18/2019 | 3324.09 | 43.55 | 0.00 | 3280.54 | |
| MW-1 | 5/7/2019 | 3324.09 | 43.35 | 0.00 | 3280.74 | |
| MW-1 | 8/1/2019 | 3324.09 | 43.40 | 0.00 | 3280.69 | |
| MW-1 | 12/5/2019 | 3324.09 | 43.37 | 0.00 | 3280.72 | |
| MW-1 | 2/17/2020 | 3324.09 | 43.90 | 0.00 | 3280.19 | |
| MW-1 | 5/4/2020 | 3324.09 | 43.30 | 0.00 | 3280.79 | |
| MW-1 | 8/12/2020 | 3324.09 | 43.40 | 0.00 | 3280.69 | |
| MW-1 | 10/5/2020 | 3324.09 | 43.45 | 0.00 | 3280.64 | |
| MW-1 | 1/4/2021 | 3324.09 | 45.19 | 0.00 | 3278.90 | |
| MW-1 | 2/1/2021 | 3324.09 | 43.50 | 0.00 | 3280.59 | |
| MW-1 | 4/30/2021 | 3324.09 | 43.46 | 0.00 | 3280.63 | |
| MW-1 | 8/9/2021 | 3324.09 | 43.41 | 0.00 | 3280.68 | |
| MW-1 | 11/19/2021 | 3324.09 | 43.40 | 0.00 | 3280.69 | |
| MW-1 | 2/25/2022 | 3324.09 | 43.43 | 0.00 | 3280.66 | |
| MW-1 | 5/18/2022 | 3324.09 | 43.41 | 0.00 | 3280.68 | |

| WELL NUMBER | DATE | CASING ELEV. (FT) | DEPTH TO WATER (FT-BTOC) | LNAPL THICKNESS (FT) | GW ELEVATION (FT) | SCREENED INTERVAL (FT-BGS) |
|----------------|------------|----------------------|--------------------------------|----------------------------|-------------------------|----------------------------------|
| MW-1 | 8/19/2022 | 3324.09 | 43.50 | 0.00 | 3280.59 | |
| MW-1 | 12/19/2022 | 3324.09 | 43.49 | 0.00 | 3280.60 | |
| MW-1 | 3/17/2023 | 3324.09 | 43.49 | 0.00 | 3280.60 | |
| MW-1 | 6/8/2023 | 3324.09 | 43.49 | 0.00 | 3280.60 | |
| MW-1 | 12/20/2023 | 3324.09 | 43.54 | 0.00 | 3280.55 | |
| | | | | | | |
| MW-2 | 1/28/2015 | 3325.18 | 43.79 | 0.00 | 3281.39 | 38.17 - 57.7 |
| MW-2 | 6/1/2015 | 3325.18 | 49.88 | 0.00 | 3275.30 | 38.17 - 57.7 |
| MW-2 | 8/18/2015 | 3325.18 | 44.75 | 0.00 | 3280.43 | 38.17 - 57.7 |
| MW-2 | 9/11/2015 | 3325.18 | 44.50 | 0.00 | 3280.68 | 38.17 - 57.8 |
| MW-2 | 12/3/2015 | 3325.18 | 44.65 | 0.00 | 3280.53 | 38.17 - 57.8 |
| MW-2 | 3/17/2016 | 3325.18 | 44.66 | 0.00 | 3280.52 | 38.17 - 57.8 |
| MW-2 | 7/19/2016 | 3325.18 | 44.35 | 0.00 | 3280.83 | 38.17 - 57.8 |
| MW-2 | 8/26/2016 | 3325.18 | 44.35 | 0.00 | 3280.83 | 38.17 - 57.7 |
| MW-2 | 10/18/2016 | 3325.18 | 44.25 | 0.00 | 3280.93 | 38.17 - 57.7 |
| MW-2 | 1/18/2017 | 3325.18 | 44.31 | 0.00 | 3280.87 | 38.17 - 57.7 |
| MW-2 | 4/25/2017 | 3325.18 | 43.15 | 0.00 | 3282.03 | 38.17 - 57.8 |
| MW-2 | 9/13/2017 | 3325.18 | 44.17 | 0.00 | 3281.01 | 38.17 - 57.8 |
| MW-2 | 12/19/2017 | 3325.18 | 44.18 | 0.00 | 3281.00 | 38.17 - 57.8 |
| MW-2 | 2/26/2018 | 3325.18 | 44.16 | 0.00 | 3281.02 | 38.17 - 57.8 |
| MW-2 | 5/7/2018 | 3325.18 | 44.16 | 0.00 | 3281.02 | 38.17 - 57.8 |
| MW-2 | 8/2/2018 | 3325.18 | 44.18 | 0.00 | 3281.00 | 38.17 - 57.8 |
| MW-2 | 12/10/2018 | 3325.18 | 44.25 | 0.00 | 3280.93 | 38.17 - 57.8 |
| MW-2 | 2/18/2019 | 3325.18 | 44.22 | 0.00 | 3280.96 | 38.17 - 57.8 |
| MW-2 | 5/7/2019 | 3325.18 | 44.20 | 0.00 | 3280.98 | 38.17 - 57.8 |
| MW-2 | 8/1/2019 | 3325.18 | 44.21 | 0.00 | 3280.97 | 38.17 - 57.8 |
| MW-2 | 12/5/2019 | 3325.18 | 44.21 | 0.00 | 3280.97 | 38.17 - 57.9 |
| MW-2 | 2/17/2020 | 3325.18 | 44.30 | 0.00 | 3280.88 | 38.17 - 57.7 |
| MW-2 | 5/4/2020 | 3325.18 | 44.18 | 0.00 | 3281.00 | 38.17 - 57.7 |
| MW-2 | 8/12/2020 | 3325.18 | 44.30 | 0.00 | 3280.88 | 38.17 - 57.7 |
| MW-2 | 10/5/2020 | 3325.18 | 44.30 | 0.00 | 3280.88 | 38.17 - 57.8 |
| MW-2 | 1/4/2021 | 3325.18 | 41.59 | 0.00 | 3283.59 | 38.17 - 57.8 |
| MW-2 | 2/1/2021 | 3325.18 | 44.35 | 0.00 | 3280.83 | 38.17 - 57.8 |
| MW-2 | 4/30/2021 | 3325.18 | 44.34 | 0.00 | 3280.84 | 38.17 - 57.8 |
| MW-2 | 8/9/2021 | 3325.18 | 44.30 | 0.00 | 3280.88 | 38.17 - 57.8 |
| MW-2 | 11/19/2021 | 3325.18 | 44.26 | 0.00 | 3280.92 | 38.17 - 57.8 |

| | <u> </u> | | | | | |
|----------------|------------|----------------------|--------------------------------|----------------------------|-------------------------|----------------------------------|
| WELL NUMBER | DATE | CASING ELEV. (FT) | DEPTH TO WATER (FT-BTOC) | LNAPL THICKNESS (FT) | GW ELEVATION (FT) | SCREENED INTERVAL (FT-BGS) |
| MW-2 | 2/25/2022 | 3325.18 | 44.31 | 0.00 | 3280.87 | 38.17 - 57.86 |
| MW-2 | 5/18/2022 | 3325.18 | 44.29 | 0.00 | 3280.89 | 38.17 - 57.87 |
| MW-2 | 8/19/2022 | 3325.18 | 44.36 | 0.00 | 3280.82 | 38.17 - 57.88 |
| MW-2 | 12/19/2022 | 3325.18 | 44.36 | 0.00 | 3280.82 | 38.17 - 57.89 |
| MW-2 | 3/17/2023 | 3325.18 | 44.36 | 0.00 | 3280.82 | 38.17 - 57.90 |
| MW-2 | 6/8/2023 | 3325.18 | 44.32 | 0.00 | 3280.86 | 38.17 - 57.77 |
| MW-2 | 12/20/2023 | 3325.18 | 44.38 | 0.00 | 3280.80 | 38.17 - 57.77 |
| | | | | | | |
| MW-3 | 4/15/2015 | 3325.87 | 46.00 | 0.00 | 3279.87 | 34.69 - 54.75 |
| MW-3 | 6/1/2015 | 3325.87 | 45.53 | 0.00 | 3280.34 | 34.69 - 54.76 |
| MW-3 | 8/18/2015 | 3325.87 | 45.42 | 0.00 | 3280.45 | 34.69 - 54.77 |
| MW-3 | 9/11/2015 | 3325.87 | 45.40 | 0.00 | 3280.47 | 34.69 - 54.78 |
| MW-3 | 12/3/2015 | 3325.87 | 45.21 | 0.00 | 3280.66 | 34.69 - 54.79 |
| MW-3 | 3/17/2016 | 3325.87 | 45.35 | 0.00 | 3280.52 | 34.69 - 54.80 |
| MW-3 | 7/19/2016 | 3325.87 | 45.12 | 0.00 | 3280.75 | 34.69 - 54.81 |
| MW-3 | 8/26/2016 | 3325.87 | 45.13 | 0.00 | 3280.74 | 34.69 - 54.75 |
| MW-3 | 10/18/2016 | 3325.87 | 45.01 | 0.00 | 3280.86 | 34.69 - 54.76 |
| MW-3 | 1/18/2017 | 3325.87 | 45.07 | 0.00 | 3280.80 | 34.69 - 54.77 |
| MW-3 | 4/25/2017 | 3325.87 | 44.93 | 0.00 | 3280.94 | 34.69 - 54.78 |
| MW-3 | 9/13/2017 | 3325.87 | 44.90 | 0.00 | 3280.97 | 34.69 - 54.79 |
| MW-3 | 12/19/2017 | 3325.87 | 44.94 | 0.00 | 3280.93 | 34.69 - 54.80 |
| MW-3 | 2/26/2018 | 3325.87 | 44.94 | 0.00 | 3280.93 | 34.69 - 54.81 |
| MW-3 | 5/7/2018 | 3325.87 | 44.94 | 0.00 | 3280.93 | 34.69 - 54.82 |
| MW-3 | 8/2/2018 | 3325.87 | 45.02 | 0.00 | 3280.85 | 34.69 - 54.83 |
| MW-3 | 12/10/2018 | 3325.87 | 45.09 | 0.00 | 3280.78 | 34.69 - 54.84 |
| MW-3 | 2/18/2019 | 3325.87 | 45.10 | 0.00 | 3280.77 | 34.69 - 54.85 |
| MW-3 | 5/7/2019 | 3325.87 | 45.02 | 0.00 | 3280.85 | 34.69 - 54.86 |
| MW-3 | 8/1/2019 | 3325.87 | 45.09 | 0.00 | 3280.78 | 34.69 - 54.87 |
| MW-3 | 12/5/2019 | 3325.87 | 45.07 | 0.00 | 3280.80 | 34.69 - 54.88 |
| MW-3 | 2/17/2020 | 3325.87 | 45.00 | 0.00 | 3280.87 | 34.69 - 54.75 |
| MW-3 | 5/4/2020 | 3325.87 | 45.05 | 0.00 | 3280.82 | 34.69 - 54.76 |
| MW-3 | 8/12/2020 | 3325.87 | 45.10 | 0.00 | 3280.77 | 34.69 - 54.77 |
| MW-3 | 10/5/2020 | 3325.87 | 45.15 | 0.00 | 3280.72 | 34.69 - 54.78 |
| MW-3 | 1/4/2021 | 3325.87 | 44.34 | 0.00 | 3281.53 | 34.69 - 54.79 |
| MW-3 | 2/1/2021 | 3325.87 | 45.20 | 0.00 | 3280.67 | 34.69 - 54.80 |
| MW-3 | 4/30/2021 | 3325.87 | 45.20 | 0.00 | 3280.67 | 34.69 - 54.81 |

| | • | | | | | |
|----------------|------------|----------------------|--------------------------------|----------------------------|-------------------------|----------------------------------|
| WELL NUMBER | DATE | CASING ELEV. (FT) | DEPTH TO WATER (FT-BTOC) | LNAPL THICKNESS (FT) | GW ELEVATION (FT) | SCREENED INTERVAL (FT-BGS) |
| MW-3 | 8/9/2021 | 3325.87 | 45.11 | 0.00 | 3280.76 | 34.69 - 54.82 |
| MW-3 | 11/19/2021 | 3325.87 | 45.11 | 0.00 | 3280.76 | 34.69 - 54.83 |
| MW-3 | 2/25/2022 | 3325.87 | 45.15 | 0.00 | 3280.72 | 34.69 - 54.84 |
| MW-3 | 5/18/2022 | 3325.87 | 45.14 | 0.00 | 3280.73 | 34.69 - 54.85 |
| MW-3 | 8/19/2022 | 3325.87 | 45.19 | 0.00 | 3280.68 | 34.69 - 54.86 |
| MW-3 | 12/19/2022 | 3325.87 | 45.21 | 0.00 | 3280.66 | 34.69 - 54.87 |
| MW-3 | 3/17/2023 | 3325.87 | 45.24 | 0.00 | 3280.63 | 34.69 - 54.88 |
| MW-3 | 6/8/2023 | 3325.87 | 45.21 | 0.00 | 3280.66 | 34.69 - 54.75 |
| MW-3 | 12/20/2023 | 3325.87 | 45.27 | 0.00 | 3280.60 | 34.69 - 54.75 |
| | • | - | | | | |
| MW-4 | 4/15/2015 | 3322.16 | 42.08 | 0.00 | 3280.08 | 38.31 - 57.77 |
| MW-4 | 6/1/2015 | 3322.16 | 42.35 | 0.00 | 3279.81 | 38.31 - 57.78 |
| MW-4 | 8/18/2015 | 3322.16 | 42.20 | 0.00 | 3279.96 | 38.31 - 57.79 |
| MW-4 | 9/11/2015 | 3322.16 | 42.00 | 0.00 | 3280.16 | 38.31 - 57.80 |
| MW-4 | 12/3/2015 | 3322.16 | 41.77 | 0.00 | 3280.39 | 38.31 - 57.81 |
| MW-4 | 3/17/2016 | 3322.16 | 42.02 | 0.00 | 3280.14 | 38.31 - 57.82 |
| MW-4 | 7/19/2016 | 3322.16 | 41.65 | 0.00 | 3280.51 | 38.31 - 57.83 |
| MW-4 | 8/26/2016 | 3322.16 | 41.64 | 0.00 | 3280.52 | 38.31 - 57.77 |
| MW-4 | 10/18/2016 | 3322.16 | 41.51 | 0.00 | 3280.65 | 38.31 - 57.78 |
| MW-4 | 1/18/2017 | 3322.16 | 41.54 | 0.00 | 3280.62 | 38.31 - 57.79 |
| MW-4 | 4/25/2017 | 3322.16 | 41.47 | 0.00 | 3280.69 | 38.31 - 57.80 |
| MW-4 | 9/13/2017 | 3322.16 | 41.39 | 0.00 | 3280.77 | 38.31 - 57.81 |
| MW-4 | 12/19/2017 | 3322.16 | 41.43 | 0.00 | 3280.73 | 38.31 - 57.82 |
| MW-4 | 2/26/2018 | 3322.16 | 41.44 | 0.00 | 3280.72 | 38.31 - 57.83 |
| MW-4 | 5/7/2018 | 3322.16 | 41.41 | 0.00 | 3280.75 | 38.31 - 57.84 |
| MW-4 | 8/2/2018 | 3322.16 | 41.48 | 0.00 | 3280.68 | 38.31 - 57.85 |
| MW-4 | 12/10/2018 | 3322.16 | 41.49 | 0.00 | 3280.67 | 38.31 - 57.86 |
| MW-4 | 2/18/2019 | 3322.16 | 41.49 | 0.00 | 3280.67 | 38.31 - 57.87 |
| MW-4 | 5/7/2019 | 3322.16 | 41.45 | 0.00 | 3280.71 | 38.31 - 57.88 |
| MW-4 | 8/1/2019 | 3322.16 | 41.50 | 0.00 | 3280.66 | 38.31 - 57.89 |
| MW-4 | 12/5/2019 | 3322.16 | 41.49 | 0.00 | 3280.67 | 38.31 - 57.90 |
| MW-4 | 2/17/2020 | 3322.16 | 42.50 | 0.00 | 3279.66 | 38.31 - 57.77 |
| MW-4 | 5/4/2020 | 3322.16 | 41.45 | 0.00 | 3280.71 | 38.31 - 57.78 |
| MW-4 | 8/12/2020 | 3322.16 | 41.50 | 0.00 | 3280.66 | 38.31 - 57.79 |
| MW-4 | 10/5/2020 | 3322.16 | 41.49 | 0.00 | 3280.67 | 38.31 - 57.80 |

| WELL NUMBER | DATE | CASING ELEV. (FT) | DEPTH TO WATER (FT-BTOC) | LNAPL THICKNESS (FT) | GW ELEVATION (FT) | SCREENED INTERVAL (FT-BGS) |
|----------------|------------|----------------------|--------------------------------|----------------------------|-------------------------|----------------------------------|
| MW-4 | 1/4/2021 | 3322.16 | 43.47 | 0.00 | 3278.69 | 38.31 - 57.81 |
| MW-4 | 2/1/2021 | 3322.16 | 41.60 | 0.00 | 3280.56 | 38.31 - 57.82 |
| MW-4 | 4/30/2021 | 3322.16 | 41.60 | 0.00 | 3280.56 | 38.31 - 57.83 |
| MW-4 | 8/9/2021 | 3322.16 | 41.44 | 0.00 | 3280.72 | 38.31 - 57.84 |
| MW-4 | 11/19/2021 | 3322.16 | 41.49 | 0.00 | 3280.67 | 38.31 - 57.85 |
| MW-4 | 2/25/2022 | 3322.16 | 41.54 | 0.00 | 3280.62 | 38.31 - 57.86 |
| MW-4 | 5/18/2022 | 3322.16 | 41.56 | 0.00 | 3280.60 | 38.31 - 57.87 |
| MW-4 | 8/19/2022 | 3322.16 | 41.61 | 0.00 | 3280.55 | 38.31 - 57.88 |
| MW-4 | 12/19/2022 | 3322.16 | 41.61 | 0.00 | 3280.55 | 38.31 - 57.89 |
| MW-4 | 3/17/2023 | 3322.16 | 41.59 | 0.00 | 3280.57 | 38.31 - 57.90 |
| MW-4 | 6/8/2023 | 3322.16 | 41.57 | 0.00 | 3280.59 | 38.31 - 57.77 |
| MW-4 | 12/20/2023 | 3322.16 | 41.66 | 0.00 | 3280.50 | 38.31 - 57.77 |

Notes:

- 1. Elevations referenced to a temporary on-site benchmark.
- 2. BTOC = below top of casing
- 3. All depth-to-water infomraiton prior to the 12/2023 data was collected by a previous consultant.
- 4. All well survey data was collected by other parties and not verified by Ranger. The presented groundwater elevation data is based on informaton provided to Ranger.

CUMULATIVE GROUNDWATER ANALYTICAL SUMMARY TABLE LMPSU TRASH PIT LEA COUNTY, NEW MEXICO 1RP-3360

| SAMPLE ID | DATE | Benzene | Toluene | Ethylbenzene | Xylenes | Calcium | Magnesium | Potassium | Sodium | Chloride | Sulfate | Alkalinity | Nitrate | |
|-----------|------------|-----------|----------|--------------|-----------|---------|-----------|-----------|--------|----------|---------|------------|---------|---|
| 101/4 | 40/44/05: | | | | | 400 | 0.10 | 20.0 | 242 | | 510 | 200 | 0.400 | |
| MW-1 | 12/11/2014 | | | | | 186 | 242 | 22.3 | 913 | 1,600 | 543 | 888 | <0.100 | |
| MW-1 | 1/28/2015 | | | | | 610 | 437 | 32.5 | 1,430 | 3,230 | 947 | 417 | <0.100 | |
| MW-1 | 6/1/2015 | <0.001 | <0.001 | <0.001 | <0.001 | 201 | 270 | 27.6 | 950 | 1,560 | 446 | 653 | <0.2 | |
| MW-1 | 8/18/2015 | <0.0008 | <0.002 | <0.002 | <0.003 | 152 | 224 | 21.5 | 820 | 1,600 | 433 | 723 | <0.10 | |
| MW-1 | 12/3/2015 | <0.0008 | <0.002 | <0.002 | <0.003 | 310 | 258 | 22.6 | 930 | 1,820 | 431 | 727 | <0.1 | |
| MW-1 | 3/17/2016 | <0.002 | <0.006 | <0.006 | < 0.009 | 184 | 283 | 22.7 | 982 | 1,920 | 432 | | <0.500 | |
| MW-1 | 7/19/2016 | <0.002 | <0.006 | <0.006 | < 0.009 | 185 | 292 | 21.6 | 1,020 | 2,040 | 478 | 714 | <0.500 | |
| MW-1 | 8/29/2016 | <0.002 | <0.006 | <0.006 | < 0.009 | 166 | 278 | 19.9 | 986 | 1,840 | 450 | 721 | <0.500 | |
| MW-1 | 10/18/2016 | <0.002 | <0.006 | <0.006 | < 0.009 | 2,030 | 318 | 25 | 1,040 | 2,030 | 406 | 739 | <0.500 | |
| MW-1 | 1/18/2017 | <0.002 | <0.006 | <0.006 | <0.006 | 212 | 333 | 22.9 | 1,130 | 2,080 | 454 | 766 | <0.500 | |
| MW-1 | 4/25/2017 | <0.002 | <0.006 | <0.006 | <0.006 | 313 | 366 | 26.6 | 1,290 | 2,840 | 852 | 439 | <0.500 | |
| MW-1 | 9/13/2017 | <0.002 | <0.006 | <0.006 | <0.006 | 217 | 329 | 21.8 | 1,070 | 1,920 | 361 | 811 | <1.00 | |
| MW-1 | 12/19/2017 | <0.002 | <0.006 | <0.006 | <0.006 | 214 | 325 | 21.9 | 1,070 | 2,170 | 521 | 734 | <0.0800 | |
| MW-1 | 2/26/2018 | <0.002 | <0.006 | <0.006 | <0.006 | 217 | 336 | 21.3 | 1,160 | 2,190 | 559 | 751 | <0.0500 | |
| MW-1 | 5/7/2018 | <0.002 | <0.006 | <0.006 | <0.006 | 218 | 338 | 20.5 | 1,150 | 2,170 | 643 | 725 | <0.0500 | |
| MW-1 | 8/2/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 | 227 | 329 | 22.4 | 1,080 | 2,040 | 693 | 726 | <0.0500 | |
| MW-1 | 12/10/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 | 219 | 341 | 20.4 | 1,100 | 1,980 | 696 | 714 | <0.0500 | |
| MW-1 | 2/18/2019 | <0.00200 | <0.00600 | <0.00600 | <0.00600 | | | | | 2,610 | | | | |
| MW-1 | 5/7/2019 | <0.00200 | <0.00600 | <0.00600 | <0.00600 | | | | | 2,570 | | | | |
| MW-1 | 8/1/2019 | < 0.00200 | <0.00600 | <0.00600 | < 0.00600 | | | | | 2,010 | | | | |
| MW-1 | 12/5/2019 | < 0.00200 | <0.00600 | <0.00600 | <0.00600 | | | | | 2,110 | | | | |
| MW-1 | 2/17/2020 | <0.00200 | <0.00600 | <0.00600 | <0.00600 | | | | | 1,950 | | | | |
| MW-1 | 5/4/2020 | <0.00200 | <0.00600 | <0.00600 | <0.00600 | | | | | 2,240 | | | | |
| MW-1 | 1/4/2021 | < 0.00200 | <0.00600 | <0.00600 | <0.00600 | 63.5 | 71.4 | 9.76 | 288 | 449 | 261 | 204 | | |
| MW-1 | 2/1/2021 | <0.00200 | <0.00600 | <0.00600 | <0.00600 | 196 | 325 | 19.7 | 1,130 | 2,130 | 652 | 694 | | |
| MW-1 | 4/30/2021 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 207 | 314 | 19.1 | 1,100 | 2,120 | 750 | 657 | | |
| MW-1 | 8/9/2021 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 192 | 297 | 18.5 | 1,090 | 1,930 | 737 | 646 | | |
| MW-1 | 11/19/2021 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 191 | 288 | 18 | 1,000 | 1,950 | 724 | 613 | | |
| MW-1 | 2/25/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 170 | 278 | 18.2 | 1,100 | 1,930 | 690 | 638 | | |
| MW-1 | 5/18/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 183 | 269 | 17.8 | 1,000 | 1,980 | 703 | 566 | | |
| MW-1 | 8/19/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 155 | 258 | 18.7 | 1,080 | 1,890 | 675 | 670 | | |
| MW-1 | 12/19/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 166 | 254 | 18.8 | 1,040 | 1,890 | 713 | 620 | | |
| MW-1 | 3/17/2023 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 153 | 254 | 18.7 | 1,080 | 2,130 | 741 | 706 | | |
| MW-1 | 6/9/2023 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 175 | 246 | 18.6 | 987 | 1,630 | 631 | 620 | | |
| MW-1 | 12/20/2023 | <0.001 | < 0.001 | < 0.001 | <0.002 | 160 | 240 | 24 | 1,200 | 1.500 | 540 | 611.1 | | 3 |

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CUMULATIVE GROUNDWATER ANALYTICAL SUMMARY TABLE LMPSU TRASH PIT LEA COUNTY, NEW MEXICO 1RP-3360

All Values Presented in Parts Per Million (mg/L) unless otherwise noted

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| | | l | 1 | 1 1 | | I | m (mg/L) unless c | inor moo notou | l | | | I | | |
|-----------|------------|-----------|----------|--------------|----------|---------|-------------------|----------------|--------|----------|---------|------------|---------|-----|
| SAMPLE ID | DATE | Benzene | Toluene | Ethylbenzene | Xylenes | Calcium | Magnesium | Potassium | Sodium | Chloride | Sulfate | Alkalinity | Nitrate | TDS |
| MW-2 | 12/11/2014 | | | | | 64.5 | 34.9 | 8.29 | 116 | 71.8 | 119 | 361 | 1.42 | 619 |
| MW-2 | 1/28/2015 | | | | | 91.1 | 36.6 | 7.3 | 126 | 71.3 | 112 | 288 | 1.36 | 573 |
| MW-2 | 6/1/2015 | < 0.001 | <0.001 | < 0.001 | <0.001 | 54.9 | 34.6 | <10 | 117 | 57.8 | 112 | 281 | 1.63 | 57 |
| MW-2 | 8/18/2015 | <0.0008 | <0.002 | <0.002 | < 0.003 | 118 | 32.6 | 6.01 | 104 | 73.9 | 114 | 274 | 1.35 | 58 |
| MW-2 | 12/3/2015 | <0.0008 | <0.002 | <0.002 | < 0.003 | 214 | 31.8 | 6.22 | 106 | 67 | 112 | 247 | 1.23 | 58 |
| MW-2 | 3/17/2016 | < 0.002 | < 0.006 | < 0.006 | < 0.009 | 45 | 27.2 | 6.02 | 99 | 63.8 | 114 | | 1.57 | 56 |
| MW-2 | 7/19/2016 | <0.002 | <0.006 | < 0.006 | <0.009 | 42.6 | 28 | 5.69 | 109 | 65.6 | 113 | 221 | 1.44 | 60 |
| MW-2 | 8/29/2016 | <0.002 | <0.006 | < 0.006 | <0.009 | 45.8 | 28.1 | 5.99 | 107 | 61.5 | 109 | 262 | 1.53 | 92 |
| MW-2 | 10/18/2016 | <0.002 | <0.006 | < 0.006 | <0.009 | 45.6 | 28.6 | 6.4 | 103 | 59.8 | 105 | 241 | 1.52 | 57 |
| MW-2 | 1/18/2017 | <0.002 | <0.006 | < 0.006 | <0.006 | 45.7 | 28.3 | 5.79 | 107 | 60 | 109 | 246 | 1.53 | 59 |
| MW-2 | 4/25/2017 | <0.002 | <0.006 | < 0.006 | <0.006 | 44.4 | 28.7 | 5.55 | 108 | 59.9 | 112 | 248 | 1.43 | 64 |
| MW-2 | 9/13/2017 | <0.002 | <0.006 | < 0.006 | <0.006 | 49.3 | 28.4 | 6.15 | 102 | 61.2 | 111 | 256 | 1.58 | 57 |
| MW-2 | 12/19/2017 | <0.002 | <0.006 | < 0.006 | <0.006 | 46.3 | 28.3 | 5.55 | 104 | 63 | 106 | 298 | 1.39 | 57 |
| MW-2 | 2/26/2018 | <0.002 | <0.006 | < 0.006 | <0.006 | 46.3 | 28.3 | 5.75 | 107 | 64.6 | 111 | 301 | 1.34 | 59 |
| MW-2 | 5/7/2018 | <0.002 | <0.006 | < 0.006 | <0.006 | 49.2 | 29.1 | 5.64 | 109 | 63.2 | 125 | 257 | 1.45 | 58 |
| MW-2 | 8/2/2018 | < 0.00200 | <0.00600 | < 0.00600 | <0.00600 | 51.7 | 28.4 | 5.72 | 106 | 68.8 | 120 | 274 | 1.21 | 61 |
| MW-2 | 12/10/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 | 46.4 | 28.4 | 5.54 | 109 | 65.4 | 112 | 260 | 1.33 | 60 |
| MW-2 | 2/18/2019 | <0.00200 | <0.00600 | <0.00600 | <0.00600 | | | | | 67 | | | | |
| MW-2 | 5/7/2019 | < 0.00200 | <0.00600 | <0.00600 | <0.00600 | | | - | | 67.1 | | | | - |
| MW-2 | 8/1/2019 | < 0.00200 | <0.00600 | <0.00600 | <0.00600 | | | | | 72.2 | | | | - |
| MW-2 | 12/5/2019 | < 0.00200 | <0.00600 | <0.00600 | <0.00600 | | | - | | 58.2 | | | | - |
| MW-2 | 2/17/2020 | < 0.00200 | <0.00600 | <0.00600 | <0.00600 | | | | | 67.6 | | | | |
| MW-2 | 5/4/2020 | < 0.00200 | <0.00600 | <0.00600 | <0.00600 | | | | | 68.4 | | | | - |
| MW-2 | 1/4/2021 | < 0.00200 | <0.00600 | < 0.00600 | <0.00600 | 69.8 | 45.3 | 8.07 | 169 | 194 | 207 | 244 | | 91 |
| MW-2 | 2/1/2021 | <0.00200 | <0.00600 | <0.00600 | <0.00600 | 56.2 | 45.1 | 6.4 | 135 | 73 | 258 | 274 | | 82 |
| MW-2 | 4/30/2021 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 52.7 | 28 | 5.36 | 107 | 61.4 | 126 | 258 | | 60 |
| MW-2 | 8/9/2021 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 50.0 | 29.4 | 5.39 | 114 | 65.4 | 121 | 269 | | 60 |
| MW-2 | 11/19/2021 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 50.5 | 27.6 | 5.4 | 101 | 65.5 | 118 | 257 | | 59 |
| MW-2 | 2/25/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 50.4 | 29.8 | 5.74 | 118 | 73.7 | 124 | 264 | | 63 |
| MW-2 | 5/18/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 53.1 | 28.1 | 5.31 | 109 | 78.5 | 131 | 270 | | 65 |
| MW-2 | 8/19/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 54.5 | 31.7 | 5.44 | 126 | 73.5 | 121 | 284 | | 64 |
| MW-2 | 12/19/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 50.6 | 28.1 | 6.03 | 112 | 68.6 | 116 | 247 | | 58 |
| MW-2 | 3/17/2023 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 48.4 | 28.8 | 5.91 | 110 | 63.6 | 114 | 256 | | 60 |
| MW-2 | 6/9/2023 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 52.6 | 27.9 | 5.33 | 102 | 63.6 | 111 | 262 | | 58 |
| MW-2 | 12/20/2023 | < 0.001 | < 0.001 | < 0.001 | <0.002 | 51.0 | 28 | 5.9 | 99 | 62 | 110 | 254.8 | | 59 |

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CUMULATIVE GROUNDWATER ANALYTICAL SUMMARY TABLE LMPSU TRASH PIT LEA COUNTY, NEW MEXICO 1RP-3360

All Values Presented in Parts Per Million (mg/L) unless otherwise noted

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| SAMPLE ID | DATE | Benzene | Toluene | Ethylbenzene | Xylenes | Calcium | Magnesium | Potassium | Sodium | Chloride | Sulfate | Alkalinity | Nitrate | Т |
|-----------|------------|-----------|-----------|--------------|-----------|---------|-----------|-----------|--------|----------|---------|------------|---------|-----|
| MW-3 | 6/1/2015 | <0.001 | <0.001 | <0.001 | <0.001 | 57.6 | 60.5 | 10.7 | 324 | 399 | 234 | 290 | 2.19 | 1, |
| MW-3 | 8/18/2015 | <0.0008 | < 0.002 | <0.002 | < 0.003 | 147 | 51.5 | 8.22 | 284 | 405 | 239 | 230 | 1.5 | 1, |
| MW-3 | 12/3/2015 | <0.0008 | < 0.002 | <0.002 | < 0.003 | 221 | 51.9 | 8.48 | 284 | 350 | 222 | 232 | 1.19 | 1, |
| MW-3 | 3/17/2016 | <0.002 | <0.006 | <0.006 | < 0.009 | 49.2 | 47.9 | 8.58 | 284 | 334 | 232 | | 1.85 | 1, |
| MW-3 | 7/19/2016 | <0.002 | <0.006 | <0.006 | < 0.009 | 41.5 | 47.7 | 7.93 | 301 | 349 | 233 | 244 | 1.75 | 1, |
| MW-3 | 8/29/2016 | <0.002 | <0.006 | <0.006 | < 0.009 | 51.9 | 47.4 | 7.78 | 277 | 327 | 252 | 230 | 1.83 | 1, |
| MW-3 | 10/18/2016 | <0.002 | <0.006 | <0.006 | < 0.009 | 49.6 | 56.4 | 9.32 | 324 | 340 | 223 | 219 | 1.78 | 1, |
| MW-3 | 1/18/2017 | <0.002 | <0.006 | <0.006 | < 0.006 | 45.7 | 51.8 | 8.54 | 312 | 342 | 240 | 215 | 1.75 | 1,3 |
| MW-3 | 4/25/2017 | <0.002 | <0.006 | <0.006 | < 0.006 | 50.0 | 62.5 | 9.6 | 392 | 342 | 223 | 220 | 1.6 | 1, |
| MW-3 | 9/13/2017 | <0.002 | <0.006 | <0.006 | < 0.006 | 49.6 | 54.2 | 9.22 | 314 | 380 | 227 | 218 | 1.91 | 1, |
| MW-3 | 12/19/2017 | <0.002 | <0.006 | <0.006 | < 0.006 | 52.9 | 56.2 | 9.21 | 304 | 379 | 243 | 207 | 1.81 | 1, |
| MW-3 | 2/26/2018 | <0.002 | <0.006 | <0.006 | < 0.006 | 49.7 | 53.7 | 8.66 | 296 | 378 | 216 | 218 | 2.13 | 1, |
| MW-3 | 5/7/2018 | <0.002 | <0.006 | <0.006 | < 0.006 | 53.7 | 56.6 | 8.85 | 311 | 414 | 249 | 204 | 2.21 | 1, |
| MW-3 | 8/2/2018 | <0.00200 | <0.00600 | <0.00600 | < 0.00600 | 55.8 | 54.2 | 9.09 | 283 | 388 | 256 | 210 | 2.13 | 1, |
| MW-3 | 12/10/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 | 53.6 | 59.2 | 8.66 | 298 | 391 | 251 | 207 | 1.81 | 1, |
| MW-3 | 2/18/2019 | <0.00200 | <0.00600 | <0.00600 | < 0.00600 | | | | | 421 | | | - | |
| MW-3 | 5/7/2019 | <0.00200 | <0.00600 | <0.00600 | <0.00600 | | | | | 432 | - | | | |
| MW-3 | 8/1/2019 | <0.00200 | <0.00600 | <0.00600 | < 0.00600 | | | | | 421 | | | - | |
| MW-3 | 12/5/2019 | <0.00200 | <0.00600 | <0.00600 | <0.00600 | | | | | 429 | - | | | |
| MW-3 | 2/17/2020 | <0.00200 | <0.00600 | <0.00600 | < 0.00600 | | | | | 424 | - | | 1 | |
| MW-3 | 5/4/2020 | <0.00200 | <0.00600 | <0.00600 | <0.00600 | | | | | 451 | - | | | |
| MW-3 | 1/4/2021 | <0.00200 | <0.00600 | <0.00600 | <0.00600 | 48.7 | 27.7 | 5.67 | 106 | 65.9 | 108 | 259 | | 5 |
| MW-3 | 2/1/2021 | <0.00200 | <0.00600 | <0.00600 | < 0.00600 | 64.4 | 74.2 | 9.8 | 295 | 452 | 262 | 197 | - | 1,4 |
| MW-3 | 4/30/2021 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 65.3 | 70.1 | 10 | 300 | 483 | 269 | 195 | - | 1, |
| MW-3 | 8/9/2021 | <0.000800 | < 0.00200 | <0.00200 | < 0.00200 | 65.3 | 72.1 | 9.81 | 294 | 447 | 278 | 194 | - | 1,3 |
| MW-3 | 11/19/2021 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 70.4 | 70.2 | 9.34 | 266 | 457 | 484 | 193 | - | 1, |
| MW-3 | 2/25/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 65.4 | 72.3 | 9.75 | 296 | 453 | 266 | 195 | - | 1, |
| MW-3 | 5/18/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 75.7 | 73.2 | 9.85 | 278 | 470 | 277 | 194 | - | 1, |
| MW-3 | 8/19/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 69.2 | 76.4 | 10.1 | 304 | 461 | 274 | 190 | - | 1, |
| MW-3 | 12/19/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 71.2 | 74.4 | 10.1 | 290 | 475 | 289 | 191 | | 1, |
| MW-3 | 3/17/2023 | <0.000800 | < 0.00200 | <0.00200 | <0.00200 | 70.6 | 77.2 | 9.94 | 294 | 448 | 285 | 189 | | 1, |
| MW-3 | 6/9/2023 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 76.2 | 76.6 | 9.9 | 274 | 432 | 258 | 198 | - | 1,4 |
| MW-3 | 12/20/2023 | < 0.001 | < 0.001 | < 0.001 | < 0.002 | 82.0 | 74 | 9.8 | 260 | 440 | 280 | 204.5 | | 1,3 |

Page 27 of 82

CUMULATIVE GROUNDWATER ANALYTICAL SUMMARY TABLE LMPSU TRASH PIT LEA COUNTY, NEW MEXICO 1RP-3360

All Values Presented in Parts Per Million (mg/L) unless otherwise noted

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| SAMPLE ID | DATE | Benzene | Toluene | Ethylbenzene | Xylenes | Calcium | Magnesium | Potassium | Sodium | Chloride | Sulfate | Alkalinity | Nitrate | TDS |
|-----------|------------|-----------|-----------|--------------|-----------|---------|-----------|-----------|--------|----------|---------|------------|---------|-----|
| MW-4 | 6/1/2015 | <0.001 | <0.001 | <0.001 | 0.0015 | 83 | 58.6 | 10.1 | 186 | 190 | 251 | 236 | 2.34 | 91 |
| MW-4 | 8/18/2015 | <0.0008 | < 0.002 | <0.002 | < 0.003 | 70.6 | 52.8 | 8.28 | 160 | 213 | 251 | 256 | 1.54 | 97 |
| MW-4 | 12/3/2015 | <0.0008 | < 0.002 | <0.002 | < 0.003 | 93.5 | 54.7 | 8.91 | 190 | 218 | 239 | 266 | 1.19 | 1,0 |
| MW-4 | 3/17/2016 | <0.002 | <0.006 | <0.006 | < 0.009 | 83.9 | 57.2 | 10.7 | 171 | 214 | 252 | | 1.76 | 94 |
| MW-4 | 7/19/2016 | <0.002 | <0.006 | <0.006 | < 0.009 | 80.6 | 58.7 | 8.75 | 213 | 259 | 273 | 252 | 1.61 | 1,1 |
| MW-4 | 8/29/2016 | <0.002 | <0.006 | <0.006 | < 0.009 | 81.8 | 57.2 | 9.25 | 202 | 247 | 276 | 266 | 1.72 | 1,5 |
| MW-4 | 10/18/2016 | <0.002 | <0.006 | <0.006 | < 0.009 | 81.8 | 55.8 | 8.85 | 205 | 255 | 264 | 248 | 1.7 | 1,2 |
| MW-4 | 1/18/2017 | <0.002 | <0.006 | <0.006 | <0.006 | 86.2 | 58.9 | 8.93 | 203 | 262 | 279 | 245 | 1.66 | 1,2 |
| MW-4 | 4/25/2017 | <0.002 | <0.006 | <0.006 | < 0.006 | 86.8 | 61.9 | 9.24 | 213 | 285 | 279 | 239 | 1.51 | 1,5 |
| MW-4 | 9/13/2017 | <0.002 | <0.006 | <0.006 | <0.006 | 99.3 | 65 | 11.1 | 213 | 288 | 278 | 236 | 1.78 | 1,2 |
| MW-4 | 12/19/2017 | <0.002 | <0.006 | <0.006 | < 0.006 | 95.6 | 64.2 | 9.33 | 209 | 298 | 296 | 226 | 1.73 | 1,2 |
| MW-4 | 2/26/2018 | <0.002 | <0.006 | <0.006 | < 0.006 | 91.8 | 62.5 | 9.32 | 211 | 320 | 306 | 239 | 1.93 | 1,2 |
| MW-4 | 5/7/2018 | <0.002 | <0.006 | <0.006 | < 0.006 | 96.2 | 64.2 | 9.6 | 214 | 296 | 299 | 234 | 1.9 | 1,2 |
| MW-4 | 8/2/2018 | <0.00200 | <0.00600 | <0.00600 | < 0.00600 | 90.1 | 54.6 | 9.23 | 189 | 254 | 277 | 245 | 1.95 | 1,1 |
| MW-4 | 12/10/2018 | < 0.00200 | <0.00600 | <0.00600 | < 0.00600 | 77.9 | 53.6 | 8.49 | 195 | 223 | 243 | 249 | 1.79 | 1,1 |
| MW-4 | 2/18/2019 | <0.00200 | <0.00600 | <0.00600 | < 0.00600 | | | | | 231 | | | | - |
| MW-4 | 5/7/2019 | <0.00200 | <0.00600 | <0.00600 | < 0.00600 | | | | | 215 | - | | | - |
| MW-4 | 8/1/2019 | < 0.00200 | <0.00600 | <0.00600 | < 0.00600 | | | | | 213 | | | | - |
| MW-4 | 12/5/2019 | <0.00200 | <0.00600 | <0.00600 | < 0.00600 | | | | | 211 | - | | | - |
| MW-4 | 2/17/2020 | < 0.00200 | <0.00600 | <0.00600 | < 0.00600 | | | | | 195 | | | | - |
| MW-4 | 5/4/2020 | <0.00200 | <0.00600 | <0.00600 | < 0.00600 | | | | | 211 | - | | | - |
| MW-4 | 1/4/2021 | < 0.00200 | < 0.00600 | <0.00600 | < 0.00600 | 210 | 323 | 18.9 | 1100 | 2,160 | 686 | 665 | | 4,9 |
| MW-4 | 2/1/2021 | <0.00200 | <0.00600 | <0.00600 | < 0.00600 | 68.7 | 46.4 | 8.1 | 168 | 192 | 221 | 246 | | 94 |
| MW-4 | 4/30/2021 | <0.000800 | < 0.00200 | <0.00200 | <0.00200 | 75.3 | 44.5 | 8.41 | 158 | 179 | 209 | 244 | | 91 |
| MW-4 | 8/9/2021 | <0.000800 | < 0.00200 | <0.00200 | < 0.00200 | 65.0 | 43.5 | 7.98 | 165 | 181 | 211 | 243 | | 87 |
| MW-4 | 11/19/2021 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 70.4 | 70.2 | 9.34 | 266 | 169 | 208 | 243 | | 88 |
| MW-4 | 2/22/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 62 | 42.7 | 7.83 | 165 | 176 | 200 | 256 | | 86 |
| MW-4 | 5/18/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 67 | 40.8 | 7.85 | 156 | 175 | 194 | 247 | | 88 |
| MW-4 | 8/19/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 65 | 42.6 | 8.13 | 162 | 163 | 189 | 247 | | 85 |
| MW-4 | 12/19/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 63 | 41.2 | 8.02 | 157 | 166 | 195 | 246 | | 85 |
| MW-4 | 3/17/2023 | <0.000800 | < 0.00200 | < 0.00200 | <0.00200 | 62 | 43 | 7.79 | 160 | 245 | 189 | 245 | | 95 |
| MW-4 | 6/9/2023 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 65 | 41.6 | 7.73 | 148 | 145 | 170 | 246 | | 82 |
| MW-4 | 12/20/2023 | < 0.001 | < 0.001 | < 0.001 | < 0.002 | 68 | 43 | 8.2 | 140 | 160 | 180 | 244.8 | | 81 |

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CUMULATIVE GROUNDWATER ANALYTICAL SUMMARY TABLE LMPSU TRASH PIT LEA COUNTY, NEW MEXICO 1RP-3360

All Values Presented in Parts Per Million (mg/L) unless otherwise noted

| | | | | | nace i recentea n | | (g. = / | | | | | | | |
|------------------|------------|-----------|-----------|--------------|-------------------|---------|-----------|-----------|--------|----------|---------|------------|---------|-------|
| SAMPLE ID | DATE | Benzene | Toluene | Ethylbenzene | Xylenes | Calcium | Magnesium | Potassium | Sodium | Chloride | Sulfate | Alkalinity | Nitrate | TDS |
| Dup-1 (MW-1) | 2/17/2020 | <0.00200 | <0.00600 | <0.00600 | <0.00600 | | | - | | | | | | 2,200 |
| Dup-1 (MW-3) | 5/4/2020 | < 0.00200 | <0.00600 | <0.00600 | <0.00600 | | | | | | | | - | 449 |
| Dup-1 (MW-2) | 1/4/2021 | < 0.00200 | <0.00600 | <0.00600 | <0.00600 | 69 | 45 | 8.00 | 166 | 191 | 204 | 247 | | 927 |
| Dup-1 (MW-2) | 2/1/2021 | < 0.00200 | <0.00600 | <0.00600 | <0.00600 | 56 | 49 | 6.50 | 145 | 74 | 285 | 269 | | 860 |
| Dup-1 (MW-2) | 4/30/2021 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 53 | 28 | 5.30 | 106 | 60 | 125 | 262 | | 612 |
| Dup-1 (MW-2) | 8/9/2021 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 65 | 44 | 7.98 | 165 | 181 | 211 | 243 | - | 877 |
| Dup-1 (MW-2) | 11/19/2021 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 47 | 27 | 5.38 | 98 | 65 | 118 | 244 | | 594 |
| Dup-1 (MW-2) | 2/25/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 48 | 28 | 5.61 | 113 | 71 | 118 | 254 | - | 598 |
| Dup-1 (MW-2) | 5/18/2022 | <0.000800 | < 0.00200 | <0.00200 | < 0.00200 | 54 | 29 | 5.09 | 111 | 78 | 129 | 265 | - | 650 |
| Dup-1 (MW-2) | 8/19/2022 | <0.000800 | <0.00200 | <0.00200 | < 0.00200 | 51 | 29 | 5.27 | 117 | 73 | 120 | 278 | | 651 |
| DUP-1 (MW-2) | 12/19/2022 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 49 | 28 | 5.97 | 112 | 68 | 115 | 248 | | 586 |
| DUP-1 (MW-2) | 3/17/2023 | <0.000800 | <0.00200 | <0.00200 | <0.00200 | 50 | 29 | 5.92 | 112 | 63 | 112 | 257 | | 602 |
| DUP-1 (MW-2) | 6/9/2023 | <0.000800 | < 0.00200 | <0.00200 | <0.00200 | 53 | 28 | 5.52 | 104 | 62 | 109 | 257 | | 604 |
| Duplicate (MW-2) | 12/20/2024 | <0.001 | <0.001 | <0.001 | <0.002 | 54 | 28 | 6.00 | 100 | 61 | 110 | 253.8 | | 603 |

250

600

10 ¹

1,000

20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)

A. Human Health Standards

0.005 0.7

0.62

B. Other Standards for Domestic Water Supply

C. Standards for Irrigation Use

Notes:

1. This standarad is for nitrate. The nitrite standard is 1.0 mg/L.

2. Exceedances of the listed closure criteria highlighted in bold, red type.



PHOTOGRAPH NO. 1 – A general view of the low-flow sampling methodology at monitor well MW-2 on December 20, 2023.

(Approximate GPS Coordinates: 32.358891, -103.147709)



PHOTOGRAPH NO. 2 – A view of monitor well MW-1. The view is towards the east. (Approximate GPS Coordinates: 32.357308, -103.147637)





June 20, 2023

Order No.: 2306135

Mark Larson

Larson & Associates

507 N. Marienfeld #202

Midland, TX 79701

TEL: (432) 687-0901

FAX (432) 687-0456

RE: Trashpit

Dear Mark Larson:

DHL Analytical, Inc. received 5 sample(s) on 6/13/2023 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont

General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-23-29



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| Analytical Report 2306135 | 12 |
| AnalyticalOCSummaryReport 2306135 | 17 |

No. 249

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| Aarson & 50° ssociates, Inc. | | | | | | 77 N. Marienfeld, Ste. 202 | | | | | | DATE: <u>10/12/2020</u> PAGE / OF / PO#: PAGE / OF / PO#: PAGE / OF / PO#: PAGE / OF / | | | | | | | | | | | | | | | | | |
| ssociates, Inc. Midland, TX 79701 | | | | | | | | | | | PROJECT LOCATION OR NAME: Trashpit | | | | | | | | | | | | | | | | | | |
| | | | | | | 432-687-0901 | | | | | LAI PROJECT #: 14-0107-01 COLLECTOR: DSg /kg | | | | | | | | | | 6 | | | | | | | | |
| Data Reported to: | I | | | | I | T | | | | T | L | | | | | | | | | | | | 7 | 7 | | | | | |
| TRRP report? | S=SOIL P=PAINT W=WATER SL=SLUDGE A=AIR OT=OTHER | | | | PRESERVATION | | | | | | | FIELD NOTES | | | | | | | | | | | | | | | | | |
| Yes No | | | | | | | | | | | | | | | | | | | | FIELD NOTES | | | | | | | | | |
| TIME ZONE: | | | | | | | | : | E G | | | | / | | | // | // | |) | Ÿ]; | | \# \}\{ | \ | | | /# | X | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | y |
| Time zone/State: | | | | | Containers | | □ NaOH | | UNPRESSERVED | | Ú | | R | | Zo) | $\chi_{/}$ | | \}\ ``\\! | % | | | \&\ \&_ | | | | X | | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | |
| MNT /NM | | | | | onta | | | | ESS | Ι. | 3 | | } /\$ | | | Z/, | X | | / \$ | 9/6/ | | | | | 7 (S) | Z: | */ * | 4/5/ | |
| Field | | | | | # of C | 모 | HNO3 H SO | SE 2 | ' A | P ₁ | | | | | | | \#\ ! | | | | | | | | | | 3 | | 0.750 |
| Sample I.D. | Lab# | Date | Time | Matrix | # | = | = = | = 0 | 15 | 1 | <u> </u> | 13/ | <u>%/</u> | <u>05/7</u> | 7/3 | | <u> </u> | | \ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u> | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | | % | /3/ | <u>~~~</u> | Ž | Ý | FIELD NO | JIES |
| mw-2 | 01 | 619123 | 0930 | W | | X | | Х | | X | | | | | | | | | | | | X | | 7 | | <u>. X</u> | \Box | | |
| mw-4 | 02 | 619123 | 1011 | W | | Х | | X | | X | | | | | | | | | | | | Х | | | (X | $\langle \rangle$ | Χ | | |
| mw-3 | 03 | 6/9/23 | 1104 | W | | X | | × | | X | | | | | | | | | | | | X | |) | < x | < x | <u>(</u> | | |
| mw-I | 04 | 6/9/23 | | W | | X | | × | $\langle $ | X | | | | | | | | | | | | X | |) | < × | - > | X | | |
| DUP-1 | 05 | 6/9/23 | | W | | V | | X | | X | | | | | | | | | | | | × | | 7 | < x | Ţ | X | | |
| 7 | | 13/11/2 | | | | \Box | 1 | | 1 | | | \top | | | | | | 1 | | | | | 一 | | T | Ť | Ť | | |
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| TOTAL 5 | | .L | | | | | | | | | | | | | | | | | | | | | | | | T | T | | |
| RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) Dany Pyman (all/2023 1600 Febres | | | | | | | TURN AROUND TIME | | | | | LABORATORY USE ONLY: | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) | | | | | | | | NORMAL MA 1 DAY □ | | | | | | RECEIVING TEMP: 1.89 THERM#: 78 | | | | | | | | | | | | | | | |
| RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) | | | | | | | | | 2 DAY 🗔 CU | | | | | | CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED | | | | | | | | | | | | | | |
| | | | | | | | | | | | OTHER C CARRIER BILL # | | | | | | | | | | | | | | | | | | |
| LABORATORY: DHL 3 | | | | | | | | | | HAND DELIVERED | | | | | | | | | | | | | | | | | | | |

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ORIGIN ID:MAFA MARK LARSON

(432) 687-0901

SHIP DATE: 12JUN23 ACTWGT: 40.00 LB CAD: 7074331/INET4610 DIMS: 24x14x14 IN

507 N MARIENFELD ST STE 202

BILL SENDER

MIDLAND, TX 79701 UNITED STATES US

JOHN DUPONT DHL ANALYTICAL, INC 2300 DOUBLE CREEK DRIVE

ROUND ROCK TX 78664 12) 388-8222 REF: 6-0141

(512) 388-8222 INV:

DEPT



Fedex.

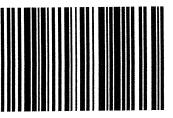
1 of 2 7724 2216 7990 0201 ## MASTER ##

TUE - 13 JUN 10:30A **PRIORITY OVERNIGHT**

78664

AUS

A8 BSMA



Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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6/12/202 DATE

SIGNATURE



DHL Analytical, Inc.

| Client Name: Larson & Associates | Date Received: 6/13/2023 | | | | | | | | |
|---|--------------------------|------------|--------------|--------------|-----------|-----------|--|--|--|
| Work Order Number: 2306135 | | | Received by: | | | | | | |
| 5 | | | | | | | | | |
| Checklist completed by: | 6/13/202 | 3 | Reviewed by | : (11) | | 6/13/2023 | | | |
| Signature | Date | | · | Initials | | Date | | | |
| | Carrier name: | FedEx 1day | | | | | | | |
| Shipping container/cooler in good condition? | | Yes 🗹 | No 🗌 | Not Present | t 🗌 | | | | |
| Custody seals intact on shipping container/cool | er? | Yes 🗸 | No 🗌 | | | | | | |
| Custody seals intact on sample bottles? | | Yes | No 🗌 | Not Present | . | | | | |
| Chain of custody present? | | Yes 🗸 | No 🗌 | | | | | | |
| Chain of custody signed when relinquished and | received? | Yes 🗸 | No 🗌 | | | | | | |
| Chain of custody agrees with sample labels? | | Yes 🗸 | No 🗌 | | | | | | |
| Samples in proper container/bottle? | | Yes 🗸 | No 🗌 | | | | | | |
| Sample containers intact? | | Yes 🗸 | No 🗌 | | | | | | |
| Sufficient sample volume for indicated test? | | Yes 🗹 | No 🗌 | | | | | | |
| All samples received within holding time? | | Yes 🗹 | No 🗌 | | | | | | |
| Water - VOA vials have zero headspace? | | Yes 🗹 | No 🗌 💮 N | No VOA vials | submitted | □ NA □ | | | |
| Water - pH<2 acceptable upon receipt? | | Yes | No 🗌 💮 | NA 🗹 LO | OT# | | | | |
| | | Adjusted? | | Checked | by | | | | |
| Water - ph>9 (S) or ph>10 (CN) acceptable upo | n receipt? | Yes | No 🗆 🛮 N | NA 🗹 LO | OT# | | | | |
| | | Adjusted? | | Checked | by | | | | |
| Container/Temp Blank temperature in complian | ce? | Yes 🗹 | No 🗌 | | | | | | |
| Cooler# 1 | | | | | | | | | |
| Temp °C 1.8 | | | | | | | | | |
| Seal Intact Y | | | | | | | | | |
| Any No response must be detailed in the comm | ents section below. | | | | | | | | |
| Client contacted: | Date contacted: | | Pers | on contacted | | | | | |
| Contacted by: | Regarding: | | | * | | | | | |
| Comments: | | | | | | | | | |
| Corrective Action: | | | | | | | | | |
| | | | | | | | | | |

Sample Receipt Checklist

CLIENT: Larson & Associates

Project: Trashpit CASE NARRATIVE

Date: 20-Jun-23

Lab Order: 2306135

Samples were analyzed using the methods outlined in the following references:

Method SW8260D - Volatile Aromatics Analysis Method E300 - Anions Analysis Method SW6020B - Dissolved Metals Analysis Method M2320 B - Alkalinity Analysis

Method M2540C - Total Dissolved Solids Analysis

LOG IN

The samples were received and log-in performed on 6/13/2023. A total of 5 samples were received and analyzed. The samples arrived in good condition and were properly packaged. The samples were collected in Mountain Standard Time.

ANIONS ANALYSIS

For Anions analysis, the recoveries of up to two anions for the Matrix Spike and Matrix Spike Duplicate(s) (2306142-02 and 2306135-04 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. No further corrective action was taken.

VOLATILE AROMATICS ANALYSIS

For Volatile Aromatics Analysis, the recovery of Benzene for the Matrix Spike Duplicate (2306134-04 MSD) was slightly above the method control limits. This is flagged accordingly in the QC Summary Report. This compound was within method control limits in the associated LCS/MS. No further corrective action was taken.

CLIENT: Larson & Associates

Project: Trashpit Work Order Sample Summary
Lab Order: 2306135

Date: 20-Jun-23

| Lab Smp ID | Client Sample ID | Tag Number | Date Collected | Date Recved |
|------------|------------------|------------|-----------------------|-------------|
| 2306135-01 | MW-2 | | 06/09/23 09:30 AM | 06/13/2023 |
| 2306135-02 | MW-4 | | 06/09/23 10:11 AM | 06/13/2023 |
| 2306135-03 | MW-3 | | 06/09/23 11:04 AM | 06/13/2023 |
| 2306135-04 | MW-1 | | 06/09/23 12:00 PM | 06/13/2023 |
| 2306135-05 | Dup-1 | | 06/09/23 | 06/13/2023 |

Lab Order:
Client:

2306135

Larson & Associates

Project: Trashpit

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|------------------------|---------|-------------|----------------------------|-------------------|----------|
| 2306135-01A | MW-2 | 06/09/23 09:30 AM | Aqueous | SW5030C | Purge and Trap Water GC/MS | 06/13/23 12:00 PM | 110626 |
| 2306135-01B | MW-2 | 06/09/23 09:30 AM | Aqueous | SW3005A | Aq Prep Metals: Dissolved | 06/19/23 07:48 AM | 110709 |
| | MW-2 | 06/09/23 09:30 AM | Aqueous | SW3005A | Aq Prep Metals: Dissolved | 06/19/23 07:48 AM | 110709 |
| 2306135-01D | MW-2 | 06/09/23 09:30 AM | Aqueous | M2320 B | Alkalinity Preparation | 06/14/23 12:40 PM | 110629 |
| | MW-2 | 06/09/23 09:30 AM | Aqueous | E300 | Anion Preparation | 06/14/23 09:05 AM | 110642 |
| | MW-2 | 06/09/23 09:30 AM | Aqueous | M2540C | TDS Preparation | 06/14/23 02:09 PM | 110650 |
| 2306135-02A | MW-4 | 06/09/23 10:11 AM | Aqueous | SW5030C | Purge and Trap Water GC/MS | 06/13/23 12:00 PM | 110626 |
| 2306135-02B | MW-4 | 06/09/23 10:11 AM | Aqueous | SW3005A | Aq Prep Metals: Dissolved | 06/19/23 07:48 AM | 110709 |
| | MW-4 | 06/09/23 10:11 AM | Aqueous | SW3005A | Aq Prep Metals: Dissolved | 06/19/23 07:48 AM | 110709 |
| 2306135-02D | MW-4 | 06/09/23 10:11 AM | Aqueous | M2320 B | Alkalinity Preparation | 06/14/23 12:40 PM | 110629 |
| | MW-4 | 06/09/23 10:11 AM | Aqueous | E300 | Anion Preparation | 06/14/23 09:05 AM | 110642 |
| | MW-4 | 06/09/23 10:11 AM | Aqueous | M2540C | TDS Preparation | 06/14/23 02:09 PM | 110650 |
| 2306135-03A | MW-3 | 06/09/23 11:04 AM | Aqueous | SW5030C | Purge and Trap Water GC/MS | 06/13/23 12:00 PM | 110626 |
| 2306135-03B | MW-3 | 06/09/23 11:04 AM | Aqueous | SW3005A | Aq Prep Metals: Dissolved | 06/19/23 07:48 AM | 110709 |
| | MW-3 | 06/09/23 11:04 AM | Aqueous | SW3005A | Aq Prep Metals: Dissolved | 06/19/23 07:48 AM | 110709 |
| 2306135-03D | MW-3 | 06/09/23 11:04 AM | Aqueous | M2320 B | Alkalinity Preparation | 06/14/23 12:40 PM | 110629 |
| | MW-3 | 06/09/23 11:04 AM | Aqueous | E300 | Anion Preparation | 06/14/23 09:05 AM | 110642 |
| | MW-3 | 06/09/23 11:04 AM | Aqueous | M2540C | TDS Preparation | 06/14/23 02:09 PM | 110650 |
| 2306135-04A | MW-1 | 06/09/23 12:00 PM | Aqueous | SW5030C | Purge and Trap Water GC/MS | 06/13/23 12:00 PM | 110626 |
| 2306135-04B | MW-1 | 06/09/23 12:00 PM | Aqueous | SW3005A | Aq Prep Metals: Dissolved | 06/19/23 07:48 AM | 110709 |
| | MW-1 | 06/09/23 12:00 PM | Aqueous | SW3005A | Aq Prep Metals: Dissolved | 06/19/23 07:48 AM | 110709 |
| 2306135-04D | MW-1 | 06/09/23 12:00 PM | Aqueous | M2320 B | Alkalinity Preparation | 06/14/23 12:40 PM | 110629 |
| | MW-1 | 06/09/23 12:00 PM | Aqueous | E300 | Anion Preparation | 06/14/23 09:05 AM | 110642 |
| | MW-1 | 06/09/23 12:00 PM | Aqueous | M2540C | TDS Preparation | 06/14/23 02:09 PM | 110650 |
| 2306135-05A | Dup-1 | 06/09/23 | Aqueous | SW5030C | Purge and Trap Water GC/MS | 06/13/23 12:00 PM | 110626 |
| 2306135-05B | Dup-1 | 06/09/23 | Aqueous | SW3005A | Aq Prep Metals: Dissolved | 06/19/23 07:48 AM | 110709 |
| | Dup-1 | 06/09/23 | Aqueous | SW3005A | Aq Prep Metals: Dissolved | 06/19/23 07:48 AM | 110709 |
| 2306135-05D | Dup-1 | 06/09/23 | Aqueous | M2320 B | Alkalinity Preparation | 06/14/23 12:40 PM | 110629 |

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Received by OCD: 4/30/2024 12:16:12 PM

20-Jun-23

Lab Order: 2306135

Client: Larson & Associates

Project: Trashpit

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-----------------|---------|-------------|-------------------|-------------------|----------|
| 2306135-05D | Dup-1 | 06/09/23 | Aqueous | E300 | Anion Preparation | 06/14/23 09:05 AM | 110642 |
| | Dup-1 | 06/09/23 | Aqueous | M2540C | TDS Preparation | 06/14/23 02:09 PM | 110650 |

2306135

Client:

Larson & Associates

Project:

Trashpit

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|---------|-------------|-----------------------------|----------|----------|-------------------|------------------|
| 2306135-01A | MW-2 | Aqueous | SW8260D | Volatile Aromatics by GC/MS | 110626 | 1 | 06/13/23 06:11 PM | GCMS3_230613A |
| 2306135-01B | MW-2 | Aqueous | SW6020B | Metals-ICPMS (Dissolved) | 110709 | 1 | 06/19/23 11:30 AM | ICP-MS4_230619C |
| | MW-2 | Aqueous | SW6020B | Metals-ICPMS (Dissolved) | 110709 | 10 | 06/19/23 12:00 PM | ICP-MS4_230619C |
| 2306135-01D | MW-2 | Aqueous | M2320 B | Alkalinity | 110629 | 1 | 06/14/23 02:04 PM | TITRATOR_230614A |
| | MW-2 | Aqueous | E300 | Anions by IC method - Water | 110642 | 10 | 06/14/23 05:31 PM | IC2_230614B |
| | MW-2 | Aqueous | M2540C | Total Dissolved Solids | 110650 | 1 | 06/14/23 05:15 PM | WC_230614C |
| 2306135-02A | MW-4 | Aqueous | SW8260D | Volatile Aromatics by GC/MS | 110626 | 1 | 06/13/23 06:36 PM | GCMS3_230613A |
| 2306135-02B | MW-4 | Aqueous | SW6020B | Metals-ICPMS (Dissolved) | 110709 | 1 | 06/19/23 11:36 AM | ICP-MS4_230619C |
| | MW-4 | Aqueous | SW6020B | Metals-ICPMS (Dissolved) | 110709 | 10 | 06/19/23 12:06 PM | ICP-MS4_230619C |
| 2306135-02D | MW-4 | Aqueous | M2320 B | Alkalinity | 110629 | 1 | 06/14/23 02:26 PM | TITRATOR_230614A |
| | MW-4 | Aqueous | E300 | Anions by IC method - Water | 110642 | 10 | 06/14/23 06:56 PM | IC2_230614B |
| | MW-4 | Aqueous | M2540C | Total Dissolved Solids | 110650 | 1 | 06/14/23 05:15 PM | WC_230614C |
| 2306135-03A | MW-3 | Aqueous | SW8260D | Volatile Aromatics by GC/MS | 110626 | 1 | 06/13/23 07:02 PM | GCMS3_230613A |
| 2306135-03B | MW-3 | Aqueous | SW6020B | Metals-ICPMS (Dissolved) | 110709 | 20 | 06/19/23 12:08 PM | ICP-MS4_230619C |
| | MW-3 | Aqueous | SW6020B | Metals-ICPMS (Dissolved) | 110709 | 1 | 06/19/23 11:38 AM | ICP-MS4_230619C |
| 2306135-03D | MW-3 | Aqueous | M2320 B | Alkalinity | 110629 | 1 | 06/14/23 02:36 PM | TITRATOR_230614A |
| | MW-3 | Aqueous | E300 | Anions by IC method - Water | 110642 | 10 | 06/14/23 07:13 PM | IC2_230614B |
| | MW-3 | Aqueous | M2540C | Total Dissolved Solids | 110650 | 1 | 06/14/23 05:15 PM | WC_230614C |
| 2306135-04A | MW-1 | Aqueous | SW8260D | Volatile Aromatics by GC/MS | 110626 | 1 | 06/13/23 07:27 PM | GCMS3_230613A |
| 2306135-04B | MW-1 | Aqueous | SW6020B | Metals-ICPMS (Dissolved) | 110709 | 1 | 06/19/23 11:40 AM | ICP-MS4_230619C |
| | MW-1 | Aqueous | SW6020B | Metals-ICPMS (Dissolved) | 110709 | 50 | 06/19/23 12:10 PM | ICP-MS4_230619C |
| 2306135-04D | MW-1 | Aqueous | M2320 B | Alkalinity | 110629 | 1 | 06/14/23 03:04 PM | TITRATOR_230614A |
| | MW-1 | Aqueous | E300 | Anions by IC method - Water | 110642 | 100 | 06/14/23 03:32 PM | IC2_230614B |
| | MW-1 | Aqueous | M2540C | Total Dissolved Solids | 110650 | 1 | 06/14/23 05:15 PM | WC_230614C |
| 2306135-05A | Dup-1 | Aqueous | SW8260D | Volatile Aromatics by GC/MS | 110626 | 1 | 06/13/23 07:52 PM | GCMS3_230613A |
| 2306135-05B | Dup-1 | Aqueous | SW6020B | Metals-ICPMS (Dissolved) | 110709 | 1 | 06/19/23 11:42 AM | ICP-MS4_230619C |
| | Dup-1 | Aqueous | SW6020B | Metals-ICPMS (Dissolved) | 110709 | 10 | 06/19/23 12:12 PM | ICP-MS4_230619C |
| 2306135-05D | Dup-1 | Aqueous | M2320 B | Alkalinity | 110629 | 1 | 06/14/23 03:15 PM | TITRATOR_230614A |
| | | | | | | | | |

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Received by OCD: 4/30/2024 12:16:12 PM

Client: Larson & Associates

2306135

Project: Trashpit

Lab Order:

ANALYTICAL DATES REPORT

20-Jun-23

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|---------|-------------|-----------------------------|----------|----------|-------------------|-------------|
| 2306135-05D | Dup-1 | Aqueous | E300 | Anions by IC method - Water | 110642 | 10 | 06/14/23 07:30 PM | IC2_230614B |
| | Dup-1 | Aqueous | M2540C | Total Dissolved Solids | 110650 | 1 | 06/14/23 05:15 PM | WC_230614C |

CLIENT: Larson & Associates Client Sample ID: MW-2

Project: Trashpit Lab ID: 2306135-01

Project No: 14-0107-01 **Collection Date:** 06/09/23 09:30 AM

Lab Order: 2306135 Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual Units | DF | Date Analyzed |
|--|-----------|----------|---------|----------------|----|---------------------|
| VOLATILE AROMATICS BY GC/MS | | SW82 | :60D | | | Analyst: JVR |
| Benzene | <0.000800 | 0.000800 | 0.00200 | mg/L | 1 | 06/13/23 06:11 PM |
| Ethylbenzene | < 0.00200 | 0.00200 | 0.00600 | mg/L | 1 | 06/13/23 06:11 PM |
| Toluene | < 0.00200 | 0.00200 | 0.00600 | mg/L | 1 | 06/13/23 06:11 PM |
| Total Xylenes | < 0.00200 | 0.00200 | 0.00600 | mg/L | 1 | 06/13/23 06:11 PM |
| Surr: 1,2-Dichloroethane-d4 | 94.6 | 0 | 72-119 | %REC | 1 | 06/13/23 06:11 PM |
| Surr: 4-Bromofluorobenzene | 103 | 0 | 76-119 | %REC | 1 | 06/13/23 06:11 PM |
| Surr: Dibromofluoromethane | 101 | 0 | 85-115 | %REC | 1 | 06/13/23 06:11 PM |
| Surr: Toluene-d8 | 90.4 | 0 | 81-120 | %REC | 1 | 06/13/23 06:11 PM |
| METALS-ICPMS (DISSOLVED) | | SW60 | 20B | | | Analyst: SP |
| Dissolved Calcium | 52.6 | 1.00 | 3.00 | mg/L | 10 | 06/19/23 12:00 PM |
| Dissolved Magnesium | 27.9 | 1.00 | 3.00 | mg/L | 10 | 06/19/23 12:00 PM |
| Dissolved Potassium | 5.33 | 0.100 | 0.300 | mg/L | 1 | 06/19/23 11:30 AM |
| Dissolved Sodium | 102 | 1.00 | 3.00 | mg/L | 10 | 06/19/23 12:00 PM |
| ANIONS BY IC METHOD - WATER | | E30 | 00 | | | Analyst: RA |
| Chloride | 62.0 | 3.00 | 10.0 | mg/L | 10 | 06/14/23 05:31 PM |
| Sulfate | 111 | 10.0 | 30.0 | mg/L | 10 | 06/14/23 05:31 PM |
| ALKALINITY | | M232 | 20 B | | | Analyst: MFW |
| Alkalinity, Bicarbonate (As CaCO3) | 262 | 10.0 | 20.0 | mg/L @ pH 4.54 | 1 | 06/14/23 02:04 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | mg/L @ pH 4.54 | 1 | 06/14/23 02:04 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | mg/L @ pH 4.54 | 1 | 06/14/23 02:04 PM |
| Alkalinity, Total (As CaCO3) | 262 | 10.0 | 20.0 | mg/L @ pH 4.54 | 1 | 06/14/23 02:04 PM |
| TOTAL DISSOLVED SOLIDS | | M254 | 10C | | | Analyst: JS |
| Total Dissolved Solids (Residue, Filterable) | 588 | 10.0 | 10.0 | mg/L | 1 | 06/14/23 05:15 PM |

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 20-Jun-23

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

CLIENT: Larson & Associates Client Sample ID: MW-4

Project: Trashpit Lab ID: 2306135-02

Project No: 14-0107-01 **Collection Date:** 06/09/23 10:11 AM

Lab Order: 2306135 Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual Units | DF | Date Analyzed |
|--|-----------|----------|---------|---------------|-----|---------------------|
| VOLATILE AROMATICS BY GC/MS | | SW82 | 60D | | | Analyst: JVR |
| Benzene | <0.000800 | 0.000800 | 0.00200 | mg/L | 1 | 06/13/23 06:36 PM |
| Ethylbenzene | < 0.00200 | 0.00200 | 0.00600 | mg/L | 1 | 06/13/23 06:36 PM |
| Toluene | < 0.00200 | 0.00200 | 0.00600 | mg/L | 1 | 06/13/23 06:36 PM |
| Total Xylenes | < 0.00200 | 0.00200 | 0.00600 | mg/L | 1 | 06/13/23 06:36 PM |
| Surr: 1,2-Dichloroethane-d4 | 94.8 | 0 | 72-119 | %REC | 1 | 06/13/23 06:36 PM |
| Surr: 4-Bromofluorobenzene | 103 | 0 | 76-119 | %REC | 1 | 06/13/23 06:36 PM |
| Surr: Dibromofluoromethane | 99.9 | 0 | 85-115 | %REC | 1 | 06/13/23 06:36 PM |
| Surr: Toluene-d8 | 90.7 | 0 | 81-120 | %REC | 1 | 06/13/23 06:36 PM |
| METALS-ICPMS (DISSOLVED) | | SW60 | 20B | | | Analyst: SP |
| Dissolved Calcium | 64.8 | 1.00 | 3.00 | mg/L | 10 | 06/19/23 12:06 PM |
| Dissolved Magnesium | 41.6 | 1.00 | 3.00 | mg/L | 10 | 06/19/23 12:06 PM |
| Dissolved Potassium | 7.73 | 0.100 | 0.300 | mg/L | 1 | 06/19/23 11:36 AM |
| Dissolved Sodium | 148 | 1.00 | 3.00 | mg/L | 10 | 06/19/23 12:06 PM |
| ANIONS BY IC METHOD - WATER | | E30 | 00 | | | Analyst: RA |
| Chloride | 145 | 3.00 | 10.0 | mg/L | 10 | 06/14/23 06:56 PM |
| Sulfate | 170 | 10.0 | 30.0 | mg/L | 10 | 06/14/23 06:56 PM |
| ALKALINITY | | M232 | 20 B | | | Analyst: MFW |
| Alkalinity, Bicarbonate (As CaCO3) | 246 | 10.0 | 20.0 | mg/L @ pH 4.5 | 4 1 | 06/14/23 02:26 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | mg/L @ pH 4.5 | 4 1 | 06/14/23 02:26 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | mg/L @ pH 4.5 | 4 1 | 06/14/23 02:26 PM |
| Alkalinity, Total (As CaCO3) | 246 | 10.0 | 20.0 | mg/L @ pH 4.5 | 4 1 | 06/14/23 02:26 PM |
| TOTAL DISSOLVED SOLIDS | | M254 | 10C | | | Analyst: JS |
| Total Dissolved Solids (Residue, Filterable) | 827 | 10.0 | 10.0 | mg/L | 1 | 06/14/23 05:15 PM |

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 20-Jun-23

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

CLIENT: Larson & Associates Client Sample ID: MW-3

Project: Trashpit Lab ID: 2306135-03

Project No: 14-0107-01 **Collection Date:** 06/09/23 11:04 AM

Lab Order: 2306135 Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual Units | DF | Date Analyzed |
|--|-----------|----------|---------|--------------|------|---------------------|
| VOLATILE AROMATICS BY GC/MS | | SW82 | 60D | | | Analyst: JVR |
| Benzene | <0.000800 | 0.000800 | 0.00200 | mg/L | 1 | 06/13/23 07:02 PM |
| Ethylbenzene | <0.00200 | 0.00200 | 0.00600 | mg/L | 1 | 06/13/23 07:02 PM |
| Toluene | < 0.00200 | 0.00200 | 0.00600 | mg/L | 1 | 06/13/23 07:02 PM |
| Total Xylenes | < 0.00200 | 0.00200 | 0.00600 | mg/L | 1 | 06/13/23 07:02 PM |
| Surr: 1,2-Dichloroethane-d4 | 94.7 | 0 | 72-119 | %REC | 1 | 06/13/23 07:02 PM |
| Surr: 4-Bromofluorobenzene | 103 | 0 | 76-119 | %REC | 1 | 06/13/23 07:02 PM |
| Surr: Dibromofluoromethane | 101 | 0 | 85-115 | %REC | 1 | 06/13/23 07:02 PM |
| Surr: Toluene-d8 | 90.7 | 0 | 81-120 | %REC | 1 | 06/13/23 07:02 PM |
| METALS-ICPMS (DISSOLVED) | | SW60 | 20B | | | Analyst: SP |
| Dissolved Calcium | 76.2 | 2.00 | 6.00 | mg/L | 20 | 06/19/23 12:08 PM |
| Dissolved Magnesium | 76.6 | 2.00 | 6.00 | mg/L | 20 | 06/19/23 12:08 PM |
| Dissolved Potassium | 9.90 | 0.100 | 0.300 | mg/L | 1 | 06/19/23 11:38 AM |
| Dissolved Sodium | 274 | 2.00 | 6.00 | mg/L | 20 | 06/19/23 12:08 PM |
| ANIONS BY IC METHOD - WATER | | E30 | 00 | | | Analyst: RA |
| Chloride | 432 | 3.00 | 10.0 | mg/L | 10 | 06/14/23 07:13 PM |
| Sulfate | 258 | 10.0 | 30.0 | mg/L | 10 | 06/14/23 07:13 PM |
| ALKALINITY | | M232 | 20 B | | | Analyst: MFW |
| Alkalinity, Bicarbonate (As CaCO3) | 198 | 10.0 | 20.0 | mg/L @ pH 4. | 53 1 | 06/14/23 02:36 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | mg/L @ pH 4. | 53 1 | 06/14/23 02:36 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | mg/L @ pH 4. | 53 1 | 06/14/23 02:36 PM |
| Alkalinity, Total (As CaCO3) | 198 | 10.0 | 20.0 | mg/L @ pH 4. | 53 1 | 06/14/23 02:36 PM |
| TOTAL DISSOLVED SOLIDS | | M254 | 10C | | | Analyst: JS |
| Total Dissolved Solids (Residue, Filterable) | 1470 | 50.0 | 50.0 | mg/L | 1 | 06/14/23 05:15 PM |

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 20-Jun-23

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

CLIENT: Larson & Associates Client Sample ID: MW-1

Project: Trashpit Lab ID: 2306135-04

Project No: 14-0107-01 **Collection Date:** 06/09/23 12:00 PM

Lab Order: 2306135 Matrix: AQUEOUS

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--|-----------|----------|---------|------|----------------|-----|--------------------|
| VOLATILE AROMATICS BY GC/MS | | SW82 | :60D | | | | Analyst: JVR |
| Benzene | <0.000800 | 0.000800 | 0.00200 | | mg/L | 1 | 06/13/23 07:27 PM |
| Ethylbenzene | < 0.00200 | 0.00200 | 0.00600 | | mg/L | 1 | 06/13/23 07:27 PM |
| Toluene | < 0.00200 | 0.00200 | 0.00600 | | mg/L | 1 | 06/13/23 07:27 PM |
| Total Xylenes | < 0.00200 | 0.00200 | 0.00600 | | mg/L | 1 | 06/13/23 07:27 PM |
| Surr: 1,2-Dichloroethane-d4 | 94.4 | 0 | 72-119 | | %REC | 1 | 06/13/23 07:27 PM |
| Surr: 4-Bromofluorobenzene | 104 | 0 | 76-119 | | %REC | 1 | 06/13/23 07:27 PM |
| Surr: Dibromofluoromethane | 100 | 0 | 85-115 | | %REC | 1 | 06/13/23 07:27 PM |
| Surr: Toluene-d8 | 90.3 | 0 | 81-120 | | %REC | 1 | 06/13/23 07:27 PM |
| METALS-ICPMS (DISSOLVED) | | SW60 | 20B | | | | Analyst: SP |
| Dissolved Calcium | 175 | 5.00 | 15.0 | | mg/L | 50 | 06/19/23 12:10 PM |
| Dissolved Magnesium | 246 | 5.00 | 15.0 | | mg/L | 50 | 06/19/23 12:10 PM |
| Dissolved Potassium | 18.6 | 0.100 | 0.300 | | mg/L | 1 | 06/19/23 11:40 AM |
| Dissolved Sodium | 987 | 5.00 | 15.0 | | mg/L | 50 | 06/19/23 12:10 PM |
| ANIONS BY IC METHOD - WATER | | E30 | 00 | | | | Analyst: RA |
| Chloride | 1630 | 30.0 | 100 | | mg/L | 100 | 06/14/23 03:32 PM |
| Sulfate | 631 | 100 | 300 | | mg/L | 100 | 06/14/23 03:32 PM |
| ALKALINITY | | M232 | 20 B | | | | Analyst: MFW |
| Alkalinity, Bicarbonate (As CaCO3) | 620 | 10.0 | 20.0 | | mg/L @ pH 4.54 | 1 | 06/14/23 03:04 PM |
| Alkalinity, Carbonate (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.54 | 1 | 06/14/23 03:04 PM |
| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | | mg/L @ pH 4.54 | 1 | 06/14/23 03:04 PM |
| Alkalinity, Total (As CaCO3) | 620 | 10.0 | 20.0 | | mg/L @ pH 4.54 | 1 | 06/14/23 03:04 PM |
| TOTAL DISSOLVED SOLIDS | | M254 | 40C | | | | Analyst: JS |
| Total Dissolved Solids (Residue, Filterable) | 4380 | 50.0 | 50.0 | | mg/L | 1 | 06/14/23 05:15 PM |

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 20-Jun-23

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

CLIENT: Larson & Associates Client Sample ID: Dup-1

62.4

109

257

<10.0

 Project:
 Trashpit
 Lab ID:
 2306135-05

 Project No:
 14-0107-01
 Collection Date:
 06/09/23

 Lab Order:
 2306135
 Matrix:
 AQUEOUS

Analyses Result **MDL** RL **Oual** Units DF **Date Analyzed VOLATILE AROMATICS BY GC/MS** Analyst: JVR SW8260D <0.000800 0.00200 Benzene 0.000800 mg/L 1 06/13/23 07:52 PM Ethylbenzene < 0.00200 0.00200 0.00600 mg/L 1 06/13/23 07:52 PM Toluene < 0.00200 0.00200 0.00600 1 06/13/23 07:52 PM mg/L Total Xylenes < 0.00200 0.00200 0.00600 mg/L 06/13/23 07:52 PM Surr: 1,2-Dichloroethane-d4 94.9 0 72-119 %REC 06/13/23 07:52 PM Surr: 4-Bromofluorobenzene 0 %REC 06/13/23 07:52 PM 103 76-119 1 Surr: Dibromofluoromethane 100 0 85-115 %REC 06/13/23 07:52 PM 1 Surr: Toluene-d8 90.1 81-120 %REC 06/13/23 07:52 PM **METALS-ICPMS (DISSOLVED)** SW6020B Analyst: SP 52.5 **Dissolved Calcium** 1.00 10 06/19/23 12:12 PM 3.00 mg/L Dissolved Magnesium 28.4 1.00 3.00 mg/L 10 06/19/23 12:12 PM Dissolved Potassium 5.52 0.100 0.300 mg/L 1 06/19/23 11:42 AM **Dissolved Sodium** 104 1.00 3.00 mg/L 10 06/19/23 12:12 PM ANIONS BY IC METHOD - WATER E300 Analyst: RA

| Alkalinity, Hydroxide (As CaCO3) | <10.0 | 10.0 | 20.0 | mg/L @ pH 4.53 | 1 | 06/14/23 03:15 PM |
|----------------------------------|-------|------|------|----------------|---|--------------------|
| Alkalinity, Total (As CaCO3) | 257 | 10.0 | 20.0 | mg/L @ pH 4.53 | 1 | 06/14/23 03:15 PM |
| | | | | | | |
| TOTAL DISSOLVED SOLIDS | | M254 | 0C | | | Analyst: JS |

M2320 B

3.00

10.0

10.0

10.0

10.0

30.0

20.0

20.0

mg/L

mg/L

mg/L @ pH 4.53

mg/L @ pH 4.53

Qualifiers:

Chloride

Sulfate

ALKALINITY

Alkalinity, Bicarbonate (As CaCO3)

Alkalinity, Carbonate (As CaCO3)

- * Value exceeds TCLP Maximum Concentration Level
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 20-Jun-23

10

10

1

1

06/14/23 07:30 PM

06/14/23 07:30 PM

06/14/23 03:15 PM

06/14/23 03:15 PM

Analyst: MFW

- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAP certified

CLIENT: Larson & Associates

Work Order: 2306135 Project: Trashpit

ANALYTICAL QC SUMMARY REPORT

Date: 20-Jun-23

RunID: GCMS3_230613A

| Analyte Result Benzene 0.0256 Ethylbenzene 0.0239 Toluene 0.0216 Total Xylenes 0.0711 Surr: 1,2-Dichloroethane-d4 186 Surr: 2-Bromofluorobenzene 206 Surr: Dibromofluoromethane 198 Surr: Toluene-d8 178 Sample ID: MB-110626 Batch ID: 110626 SampType: MBLK Run ID: GCMS3 Analyte Result Benzene <0.00200 Ethylbenzene <0.00200 Toluene <0.00200 Total Xylenes <0.00200 Surr: 1,2-Dichloroethane-d4 187 Surr: 4-Bromofluorobenzene 206 Surr: Dibromofluoromethane 200 Surr: Toluene-d8 179 Sample ID: 2306134-04AMSD Batch ID: 110626 | | | | Kullii | | JCN183_2. | | .1 | |
|--|-------------|----------------|------------|---------------------|-----------|-----------------|--------|----------|--------|
| SampType: LCS Run ID: GCMS3 Analyte Result Benzene 0.0256 Ethylbenzene 0.0239 Toluene 0.0216 Total Xylenes 0.0711 Surr: 1,2-Dichloroethane-d4 186 Surr: Dibromofluoromethane 198 Surr: Dibromofluoromethane 198 Surr: Toluene-d8 178 Sample ID: MB-110626 Batch ID: 110626 SampType: MBLK Run ID: GCMS3 Analyte Result Benzene <0.000800 | amples: 230 | 6135-01A, 2306 | 135-02A, 2 | 2306135-03 <i>P</i> | A, 230613 | 85-04A, 23061 | 35-05A | | |
| Analyte Result Benzene 0.0256 Ethylbenzene 0.0239 Toluene 0.0216 Total Xylenes 0.0711 Surr: 1,2-Dichloroethane-d4 186 Surr: Dibromofluoromethane 198 Surr: Dibromofluoromethane 198 Surr: Toluene-d8 178 Sample ID: MB-110626 Batch ID: 110626 SampType: MBLK Run ID: GCMS3 Analyte Result Benzene <0.000800 | | TestNo: | sw | 8260D | | Units: | mg/L | | |
| Benzene 0.0256 Ethylbenzene 0.0239 Toluene 0.0216 Total Xylenes 0.0711 Surr: 1,2-Dichloroethane-d4 186 Surr: Dibromofluoromethane 198 Surr: Toluene-d8 178 Sample ID: MB-110626 Batch ID: 110626 SampType: MBLK Run ID: GCMS3 Analyte Result Benzene <0.00200 | _230613A | Analysis | Date: 6/13 | 3/2023 1:42: | 00 PM | Prep Date: | 6/13/2 | 2023 | |
| Ethylbenzene 0.0239 Toluene 0.0216 Total Xylenes 0.0711 Surr: 1,2-Dichloroethane-d4 186 Surr: Dibromofluoromethane 198 Surr: Toluene-d8 178 Sample ID: MB-110626 Batch ID: 110626 SampType: MBLK Run ID: GCMS3 Analyte Result Benzene <0.000800 | RL | SPK value | Ref Val | %REC | LowLim | nit HighLimit % | 6RPD F | RPDLimit | t Qual |
| Toluene 0.0216 Total Xylenes 0.0711 Surr: 1,2-Dichloroethane-d4 186 Surr: Dibromofluorobenzene 206 Surr: Dibromofluoromethane 198 Surr: Toluene-d8 178 Sample ID: MB-110626 Batch ID: 110626 SampType: MBLK Run ID: GCMS3 Analyte Result Benzene <0.00200 | 0.00200 | 0.0232 | 0 | 110 | 81 | 122 | | | |
| Total Xylenes 0.0711 Surr: 1,2-Dichloroethane-d4 186 Surr: 4-Bromofluorobenzene 206 Surr: Dibromofluoromethane 198 Surr: Toluene-d8 178 Sample ID: MB-110626 Batch ID: 110626 SampType: MBLK Run ID: GCMS3 Analyte Result Benzene <0.000800 | 0.00600 | 0.0232 | 0 | 103 | 73 | 127 | | | |
| Surr: 1,2-Dichloroethane-d4 186 Surr: 4-Bromofluorobenzene 206 Surr: Dibromofluoromethane 198 Surr: Toluene-d8 178 Sample ID: MB-110626 Batch ID: 110626 SampType: MBLK Run ID: GCMS3 Analyte Result Benzene <0.000800 | 0.00600 | 0.0232 | 0 | 93.2 | 77 | 122 | | | |
| Surr: 4-Bromofluorobenzene 206 Surr: Dibromofluoromethane 198 Surr: Toluene-d8 178 Sample ID: MB-110626 Batch ID: 110626 SampType: MBLK Run ID: GCMS3 Analyte Result Benzene <0.000800 | 0.00600 | 0.0696 | 0 | 102 | 80 | 121 | | | |
| Surr: Dibromofluoromethane 198 Surr: Toluene-d8 178 Sample ID: MB-110626 Batch ID: 110626 SampType: MBLK Run ID: GCMS3 Analyte Result Benzene <0.000800 Ethylbenzene <0.00200 Total Xylenes <0.00200 Surr: 1,2-Dichloroethane-d4 187 Surr: Dibromofluoromethane 206 Surr: Toluene-d8 179 Sample ID: 2306134-04AMSD Batch ID: 110626 SampType: MSD Run ID: GCMS3 Analyte Result Benzene 0.291 Ethylbenzene 0.260 Toluene 0.244 Total Xylenes 0.773 Surr: 1,2-Dichloroethane-d4 1920 Surr: 4-Bromofluorobenzene 2050 Surr: Dibromofluoromethane 2010 Surr: Toluene-d8 1800 | | 200.0 | | 92.9 | 72 | 119 | | | |
| Surr: Toluene-d8 178 Sample ID: MB-110626 Batch ID: 110626 SampType: MBLK Run ID: GCMS3 Analyte Result Benzene <0.000800 | | 200.0 | | 103 | 76 | 119 | | | |
| Sample ID: MB-110626 Batch ID: 110626 SampType: MBLK Run ID: GCMS3 Analyte Result Benzene <0.000800 | | 200.0 | | 99.2 | 85 | 115 | | | |
| SampType: MBLK Run ID: GCMS3 Analyte Result Benzene <0.000800 | | 200.0 | | 89.1 | 81 | 120 | | | |
| Analyte Result Benzene <0.000800 | | TestNo: | SW | 8260D | | Units: | mg/L | | |
| Sample Content | _230613A | Analysis | Date: 6/13 | 3/2023 2:06: | 00 PM | Prep Date: | 6/13/2 | 2023 | |
| Ethylbenzene <0.00200 | RL | SPK value | Ref Val | %REC | LowLim | nit HighLimit % | 6RPD F | RPDLimit | t Qual |
| Toluene <0.00200 | 0.00200 | | | | | | | | |
| Toluene <0.00200 | 0.00600 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 187 Surr: 4-Bromofluorobenzene 206 Surr: Dibromofluoromethane 200 Surr: Toluene-d8 179 Sample ID: 2306134-04AMSD Batch ID: 110626 SampType: MSD Run ID: GCMS3 Analyte Result Benzene 0.291 Ethylbenzene 0.260 Toluene 0.244 Total Xylenes 0.773 Surr: 1,2-Dichloroethane-d4 1920 Surr: 4-Bromofluorobenzene 2050 Surr: Dibromofluoromethane 2010 Surr: Toluene-d8 1800 | 0.00600 | | | | | | | | |
| Surr: 4-Bromofluorobenzene 206 Surr: Dibromofluoromethane 200 Surr: Toluene-d8 179 Sample ID: 2306134-04AMSD Batch ID: 110626 SampType: MSD Run ID: GCMS3 Analyte Result Benzene 0.291 Ethylbenzene 0.260 Toluene 0.244 Total Xylenes 0.773 Surr: 1,2-Dichloroethane-d4 1920 Surr: 4-Bromofluorobenzene 2050 Surr: Dibromofluoromethane 2010 Surr: Toluene-d8 1800 | 0.00600 | | | | | | | | |
| Surr: Dibromofluoromethane 200 Surr: Toluene-d8 179 Sample ID: 2306134-04AMSD Batch ID: 110626 SampType: MSD Run ID: GCMS3 Analyte Result Benzene 0.291 Ethylbenzene 0.260 Toluene 0.244 Total Xylenes 0.773 Surr: 1,2-Dichloroethane-d4 1920 Surr: 4-Bromofluorobenzene 2050 Surr: Dibromofluoromethane 2010 Surr: Toluene-d8 1800 | | 200.0 | | 93.6 | 72 | 119 | | | |
| Surr: Toluene-d8 179 Sample ID: 2306134-04AMSD Batch ID: 110626 SampType: MSD Run ID: GCMS3 Analyte Result Benzene 0.291 Ethylbenzene 0.260 Toluene 0.244 Total Xylenes 0.773 Surr: 1,2-Dichloroethane-d4 1920 Surr: 4-Bromofluorobenzene 2050 Surr: Dibromofluoromethane 2010 Surr: Toluene-d8 1800 | | 200.0 | | 103 | 76 | 119 | | | |
| Sample ID: 2306134-04AMSD Batch ID: 110626 SampType: MSD Run ID: GCMS3 Analyte Result Benzene 0.291 Ethylbenzene 0.260 Toluene 0.244 Total Xylenes 0.773 Surr: 1,2-Dichloroethane-d4 1920 Surr: 4-Bromofluorobenzene 2050 Surr: Dibromofluoromethane 2010 Surr: Toluene-d8 1800 | | 200.0 | | 99.9 | 85 | 115 | | | |
| SampType: MSD Run ID: GCMS3 Analyte Result Benzene 0.291 Ethylbenzene 0.260 Toluene 0.244 Total Xylenes 0.773 Surr: 1,2-Dichloroethane-d4 1920 Surr: 4-Bromofluorobenzene 2050 Surr: Dibromofluoromethane 2010 Surr: Toluene-d8 1800 | | 200.0 | | 89.4 | 81 | 120 | | | |
| Analyte Result Benzene 0.291 Ethylbenzene 0.260 Toluene 0.244 Total Xylenes 0.773 Surr: 1,2-Dichloroethane-d4 1920 Surr: 4-Bromofluorobenzene 2050 Surr: Dibromofluoromethane 2010 Surr: Toluene-d8 1800 | | TestNo: | SW | 8260D | | Units: | mg/L | | |
| Benzene 0.291 Ethylbenzene 0.260 Toluene 0.244 Total Xylenes 0.773 Surr: 1,2-Dichloroethane-d4 1920 Surr: 4-Bromofluorobenzene 2050 Surr: Dibromofluoromethane 2010 Surr: Toluene-d8 1800 | _230613A | Analysis | Date: 6/13 | 3/2023 3:19: | 00 PM | Prep Date: | 6/13/2 | 2023 | |
| Ethylbenzene 0.260 Toluene 0.244 Total Xylenes 0.773 Surr: 1,2-Dichloroethane-d4 1920 Surr: 4-Bromofluorobenzene 2050 Surr: Dibromofluoromethane 2010 Surr: Toluene-d8 1800 | RL | SPK value | Ref Val | %REC | LowLim | nit HighLimit % | 6RPD F | RPDLimit | t Qual |
| Toluene 0.244 Total Xylenes 0.773 Surr: 1,2-Dichloroethane-d4 1920 Surr: 4-Bromofluorobenzene 2050 Surr: Dibromofluoromethane 2010 Surr: Toluene-d8 1800 | 0.0200 | 0.232 | 0 | 125 | 81 | 122 | 13.0 | 20 | S |
| Total Xylenes 0.773 Surr: 1,2-Dichloroethane-d4 1920 Surr: 4-Bromofluorobenzene 2050 Surr: Dibromofluoromethane 2010 Surr: Toluene-d8 1800 | 0.0600 | 0.232 | 0 | 112 | 73 | 127 | 8.83 | 20 | |
| Surr: 1,2-Dichloroethane-d41920Surr: 4-Bromofluorobenzene2050Surr: Dibromofluoromethane2010Surr: Toluene-d81800 | 0.0600 | 0.232 | 0 | 105 | 77 | 122 | 11.6 | 20 | |
| Surr: 4-Bromofluorobenzene2050Surr: Dibromofluoromethane2010Surr: Toluene-d81800 | 0.0600 | 0.696 | 0 | 111 | 80 | 121 | 8.14 | 20 | |
| Surr: Dibromofluoromethane 2010 Surr: Toluene-d8 1800 | | 2000 | | 95.8 | 72 | 119 | 0 | 0 | |
| Surr: Toluene-d8 1800 | | 2000 | | 102 | 76 | 119 | 0 | 0 | |
| | | 2000 | | 101 | 85 | 115 | 0 | 0 | |
| Sample ID: 2306134-04AMS Batch ID: 110626 | | 2000 | | 90.2 | 81 | 120 | 0 | 0 | |
| | | TestNo: | sw | 8260D | | Units: | mg/L | | |
| SampType: MS Run ID: GCMS3 | _230613A | Analysis | Date: 6/13 | 3/2023 3:55: | 00 PM | Prep Date: | 6/13/2 | 2023 | |
| Analyte Result | RL | SPK value | Ref Val | %REC | LowLim | nit HighLimit % | 6RPD F | RPDLimit | t Qual |

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limitsN Parameter not NELAP certified

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Work Order: 2306135 Project: Trashpit

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_230613A

| Sample ID: 2306134-04AMS SampType: MS | Batch ID: Run ID: | 110626 GCMS | 3_230613A | TestNo Analys | - | V8260D 13/2023 3:55: | 00 PM | Units: Prep Date: | mg/L 6/13/2023 |
|---------------------------------------|----------------------|----------------|-----------|------------------|---------|-------------------------|--------|----------------------|--------------------|
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit 9 | %RPD RPDLimit Qual |
| Benzene | | 0.255 | 0.0200 | 0.232 | 0 | 110 | 81 | 122 | _ |
| Ethylbenzene | | 0.238 | 0.0600 | 0.232 | 0 | 103 | 73 | 127 | |
| Toluene | | 0.218 | 0.0600 | 0.232 | 0 | 93.8 | 77 | 122 | |
| Total Xylenes | | 0.713 | 0.0600 | 0.696 | 0 | 102 | 80 | 121 | |
| Surr: 1,2-Dichloroethane-d4 | | 1910 | | 2000 | | 95.3 | 72 | 119 | |
| Surr: 4-Bromofluorobenzene | | 2060 | | 2000 | | 103 | 76 | 119 | |
| Surr: Dibromofluoromethane | | 2030 | | 2000 | | 101 | 85 | 115 | |
| Surr: Toluene-d8 | | 1810 | | 2000 | | 90.4 | 81 | 120 | |

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

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Page 3 of 13

CLIENT: Larson & Associates

Work Order: 2306135 Project: Trashpit

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_230613A

| Sample ID: ICV-230613 SampType: ICV | Batch ID: Run ID: | R12733 GCMS: | 3_230613A | TestNo Analys | | V8260D 13/2023 1:18: | 00 PM | Units: Prep Date | mg/L |
|-------------------------------------|----------------------|-----------------|-----------|------------------|---------|-------------------------|--------|---------------------|--------------------|
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit | %RPD RPDLimit Qual |
| Benzene | | 0.0510 | 0.00200 | 0.0464 | 0 | 110 | 70 | 130 | |
| Ethylbenzene | | 0.0482 | 0.00600 | 0.0464 | 0 | 104 | 70 | 130 | |
| Toluene | | 0.0436 | 0.00600 | 0.0464 | 0 | 93.9 | 70 | 130 | |
| Total Xylenes | | 0.144 | 0.00600 | 0.139 | 0 | 103 | 70 | 130 | |
| Surr: 1,2-Dichloroethane-d4 | | 186 | | 200.0 | | 92.9 | 72 | 119 | |
| Surr: 4-Bromofluorobenzene | | 206 | | 200.0 | | 103 | 76 | 119 | |
| Surr: Dibromofluoromethane | | 198 | | 200.0 | | 98.8 | 85 | 115 | |
| Surr: Toluene-d8 | | 179 | | 200.0 | | 89.7 | 81 | 120 | |

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

 $R \quad \ RPD \ outside \ accepted \ control \ \ limits$

S Spike Recovery outside control limits

N Parameter not NELAP certified

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ANALYTICAL QC SUMMARY REPORT

Work Order: 2306135
Project: Trashpit

RunID: ICP-MS4_230619C

| Project: Trashpit | | | | | | RunII |): I | CP-MS4_2 | 230619 | C |
|----------------------------------|--------------|--------------|------------|----------------|----------------------|--------------|----------|----------------|---------|-------------|
| The QC data in batch 110709 ap | plies to the | following sa | mples: 230 | 6135-01B, 2306 | 6135-02B, 2 | 2306135-03B | , 230613 | 5-04B, 23061 | 35-05B | |
| Sample ID: MB-110709 | Batch ID: | 110709 | | TestNo | sw | 6020B | | Units: | mg/L | |
| SampType: MBLK | Run ID: | ICP-MS4 | _230619C | Analysi | s Date: 6/1 9 | 9/2023 11:19 | :00 AM | Prep Date: | 6/19/20 |)23 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | 6RPD RI | PDLimit Qua |
| Dissolved Calcium | | <0.100 | 0.300 | | | | | | | |
| Dissolved Magnesium | | <0.100 | 0.300 | | | | | | | |
| Dissolved Potassium | | <0.100 | 0.300 | | | | | | | |
| Dissolved Sodium | | <0.100 | 0.300 | | | | | | | |
| Sample ID: MB-110631-FILTER | Batch ID: | 110709 | | TestNo | sw | 6020B | | Units: | mg/L | |
| SampType: MBLK | Run ID: | ICP-MS4 | _230619C | Analysi | s Date: 6/1 9 | 9/2023 11:21 | :00 AM | Prep Date: | 6/19/20 |)23 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | 6RPD RI | PDLimit Qua |
| Dissolved Calcium | | <0.100 | 0.300 | | | | | | | |
| Dissolved Magnesium | | <0.100 | 0.300 | | | | | | | |
| Dissolved Potassium | | <0.100 | 0.300 | | | | | | | |
| Dissolved Sodium | | <0.100 | 0.300 | | | | | | | |
| Sample ID: LCS-110709 | Batch ID: | 110709 | | TestNo | sw | 6020B | | Units: | mg/L | |
| SampType: LCS | Run ID: | ICP-MS4 | _230619C | Analysi | s Date: 6/1 9 | 9/2023 11:24 | :00 AM | Prep Date: | 6/19/20 | 023 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | 6RPD RI | PDLimit Qu |
| Dissolved Calcium | | 5.09 | 0.300 | 5.00 | 0 | 102 | 80 | 120 | | |
| Dissolved Magnesium | | 4.84 | 0.300 | 5.00 | 0 | 96.7 | 80 | 120 | | |
| Dissolved Potassium | | 4.91 | 0.300 | 5.00 | 0 | 98.3 | 80 | 120 | | |
| Dissolved Sodium | | 4.78 | 0.300 | 5.00 | 0 | 95.6 | 80 | 120 | | |
| Sample ID: LCSD-110709 | Batch ID: | 110709 | | TestNo | sw | 6020B | | Units: | mg/L | |
| SampType: LCSD | Run ID: | ICP-MS4 | _230619C | Analysi | s Date: 6/1 9 | 9/2023 11:26 | :00 AM | Prep Date: | 6/19/20 |)23 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | 6RPD RI | PDLimit Qu |
| Dissolved Calcium | | 4.87 | 0.300 | 5.00 | 0 | 97.5 | 80 | 120 | 4.30 | 15 |
| Dissolved Magnesium | | 4.82 | 0.300 | 5.00 | 0 | 96.3 | 80 | 120 | 0.420 | 15 |
| Dissolved Potassium | | 4.90 | 0.300 | 5.00 | 0 | 98.1 | 80 | 120 | 0.189 | 15 |
| Dissolved Sodium | | 4.75 | 0.300 | 5.00 | 0 | 94.9 | 80 | 120 | 0.731 | 15 |
| Sample ID: 2306135-01B SD | Batch ID: | 110709 | | TestNo | sw | 6020B | | Units: | mg/L | |
| SampType: SD | Run ID: | ICP-MS4 | _230619C | Analysi | s Date: 6/1 9 | 9/2023 11:32 | :00 AM | Prep Date: | 6/19/20 |)23 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | 6RPD RI | PDLimit Qu |
| Potassium | | 5.45 | 1.50 | 0 | 5.33 | | | | 2.16 | 20 |
| | | | | | | | | | | |

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

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S Spike Recovery outside control limits

N Parameter not NELAP certified

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CLIENT: Larson & Associates

Work Order: 2306135
Project: Trashpit

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_230619C

| Sample ID: 2306135-01B PDS | Batch ID: | 110709 | | TestNo: | SWe | 6020B | | Units: | mg/L | |
|----------------------------|-----------|---------|----------|-----------|------------|-------------|--------|----------------|---------|--------------|
| SampType: PDS | Run ID: | ICP-MS4 | _230619C | Analysis | Date: 6/19 | /2023 11:46 | :00 AM | Prep Date: | 6/19/20 |)23 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | RPD R | PDLimit Qual |
| Potassium | | 9.58 | 0.300 | 5.00 | 5.33 | 84.9 | 75 | 125 | | |
| Sample ID: 2306135-01B MS | Batch ID: | 110709 | | TestNo: | swe | 6020B | | Units: | mg/L | |
| SampType: MS | Run ID: | ICP-MS4 | _230619C | Analysis | Date: 6/19 | /2023 11:49 | :00 AM | Prep Date: | 6/19/20 |)23 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | RPD R | PDLimit Qual |
| Dissolved Potassium | | 10.1 | 0.300 | 5.00 | 5.33 | 94.6 | 75 | 125 | | |
| Sample ID: 2306135-01B MSD | Batch ID: | 110709 | | TestNo: | swe | 6020B | | Units: | mg/L | |
| SampType: MSD | Run ID: | ICP-MS4 | _230619C | Analysis | Date: 6/19 | /2023 11:51 | :00 AM | Prep Date: | 6/19/20 |)23 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | RPD RF | PDLimit Qual |
| Dissolved Potassium | | 10.2 | 0.300 | 5.00 | 5.33 | 96.5 | 75 | 125 | 0.897 | 15 |
| Sample ID: 2306135-01B SD | Batch ID: | 110709 | | TestNo: | SWe | 6020B | | Units: | mg/L | |
| SampType: SD | Run ID: | ICP-MS4 | _230619C | Analysis | Date: 6/19 | /2023 12:02 | :00 PM | Prep Date: | 6/19/20 |)23 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | RPD R | PDLimit Qual |
| Calcium | | 50.2 | 15.0 | 0 | 52.6 | | | | 4.66 | 20 |
| Magnesium | | 27.9 | 15.0 | 0 | 27.9 | | | | 0.193 | 20 |
| Sodium | | 104 | 15.0 | 0 | 102 | | | | 1.58 | 20 |
| Sample ID: 2306135-01B PDS | Batch ID: | 110709 | | TestNo: | | 6020B | | Units: | mg/L | |
| SampType: PDS | Run ID: | ICP-MS4 | _230619C | Analysis | Date: 6/19 | /2023 12:16 | :00 PM | Prep Date: | 6/19/20 |)23 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | RPD R | PDLimit Qual |
| Calcium | | 103 | 3.00 | 50.0 | 52.6 | 101 | 75 | 125 | | |
| Magnesium | | 73.8 | 3.00 | 50.0 | 27.9 | 91.8 | 75 | 125 | | |
| Sodium | | 148 | 3.00 | 50.0 | 102 | 92.6 | 75 | 125 | | |
| Sample ID: 2306135-01B MS | Batch ID: | 110709 | | TestNo: | SWe | 6020B | | Units: | mg/L | |
| SampType: MS | Run ID: | ICP-MS4 | _230619C | Analysis | Date: 6/19 | /2023 12:18 | :00 PM | Prep Date: | 6/19/20 |)23 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | RPD R | PDLimit Qual |
| Dissolved Calcium | | 56.9 | 3.00 | 5.00 | 52.6 | 86.9 | 75 | 125 | | |
| Dissolved Magnesium | | 32.8 | 3.00 | 5.00 | 27.9 | 98.6 | 75 | 125 | | |
| Dissolved Sodium | | 107 | 3.00 | 5.00 | 102 | 101 | 75 | 125 | | |

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

Work Order: 2306135
Project: Trashpit

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_230619C

| Sample ID: 2306135-01B MSD | Batch ID: | 110709 | | TestNo | : SW | V6020B | | Units: | mg/L | |
|----------------------------|-----------|---------|----------|-----------|---------------------|--------------|----------|-----------|---------|---------------|
| SampType: MSD | Run ID: | ICP-MS4 | _230619C | Analys | is Date: 6/1 | 9/2023 12:20 | :00 PM | Prep Date | : 6/19/ | 2023 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit Qual |
| Dissolved Calcium | | 56.8 | 3.00 | 5.00 | 52.6 | 84.9 | 75 | 125 | 0.174 | 15 |
| Dissolved Magnesium | | 33.1 | 3.00 | 5.00 | 27.9 | 103 | 75 | 125 | 0.719 | 15 |
| Dissolved Sodium | | 108 | 3.00 | 5.00 | 102 | 113 | 75 | 125 | 0.585 | 15 |

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

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Work Order: 2306135

ANALYTICAL QC SUMMARY REPORT

Project: Trashpit RunID: ICP-MS4_230619C

| Project: Trashpi | Ţ | | | | | Kunii | <i>)</i> ; 1 | CP-M54_ | _430019C |
|------------------------|-----------|---------|-----------|-----------|--------------------|--------------|--------------|--------------|--------------------|
| Sample ID: ICV-230619 | Batch ID: | R127452 | ! | TestNo | SW | /6020B | | Units: | mg/L |
| SampType: ICV | Run ID: | ICP-MS4 | 1_230619C | Analysi | s Date: 6/1 | 9/2023 10:34 | :00 AM | Prep Date: | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit | %RPD RPDLimit Qual |
| Dissolved Calcium | | 2.74 | 0.300 | 2.50 | 0 | 110 | 90 | 110 | |
| Dissolved Magnesium | | 2.55 | 0.300 | 2.50 | 0 | 102 | 90 | 110 | |
| Dissolved Potassium | | 2.57 | 0.300 | 2.50 | 0 | 103 | 90 | 110 | |
| Dissolved Sodium | | 2.52 | 0.300 | 2.50 | 0 | 101 | 90 | 110 | |
| Sample ID: LCVL-230619 | Batch ID: | R127452 | ! | TestNo | SW | /6020B | | Units: | mg/L |
| SampType: LCVL | Run ID: | ICP-MS4 | 1_230619C | Analysi | s Date: 6/1 | 9/2023 10:57 | :00 AM | Prep Date: | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit | %RPD RPDLimit Qual |
| Dissolved Calcium | (| 0.0975 | 0.300 | 0.100 | 0 | 97.5 | 80 | 120 | |
| Dissolved Magnesium | (| 0.0989 | 0.300 | 0.100 | 0 | 98.9 | 80 | 120 | |
| Dissolved Potassium | | 0.111 | 0.300 | 0.100 | 0 | 111 | 80 | 120 | |
| Dissolved Sodium | | 0.101 | 0.300 | 0.100 | 0 | 101 | 80 | 120 | |
| Sample ID: CCV1-230619 | Batch ID: | R127452 | ! | TestNo | SW | /6020B | | Units: | mg/L |
| SampType: CCV | Run ID: | ICP-MS4 | 1_230619C | Analysi | s Date: 6/1 | 9/2023 11:56 | :00 AM | Prep Date: | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit | %RPD RPDLimit Qual |
| Dissolved Calcium | | 4.94 | 0.300 | 5.00 | 0 | 98.8 | 90 | 110 | |
| Dissolved Magnesium | | 4.78 | 0.300 | 5.00 | 0 | 95.5 | 90 | 110 | |
| Dissolved Potassium | | 4.87 | 0.300 | 5.00 | 0 | 97.3 | 90 | 110 | |
| Dissolved Sodium | | 4.75 | 0.300 | 5.00 | 0 | 95.1 | 90 | 110 | |
| Sample ID: CCV2-230619 | Batch ID: | R127452 | ! | TestNo | SW | /6020B | | Units: | mg/L |
| SampType: CCV | Run ID: | ICP-MS4 | 1_230619C | Analysi | s Date: 6/1 | 9/2023 12:22 | :00 PM | Prep Date: | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit | %RPD RPDLimit Qual |
| Dissolved Calcium | | 5.11 | 0.300 | 5.00 | 0 | 102 | 90 | 110 | |
| Dissolved Magnesium | | 4.75 | 0.300 | 5.00 | 0 | 95.0 | 90 | 110 | |
| Dissolved Sodium | | 4.74 | 0.300 | 5.00 | 0 | 94.8 | 90 | 110 | |
| | | | | | | | | | |

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limitsN Parameter not NELAP certified

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CLIENT: Larson & Associates

ANALYTICAL QC SUMMARY REPORT Work Order: 2306135

RunID:

IC2 230614B

Project: Trashpit

| Project: | 1 rasnpit | | | | | | | <i>)</i> ; 1 | C2_23001 | | | |
|---|----------------------|----------------------------|--|--|---|--|--|--|--|---|-----------------------------|----------------|
| The QC data | in batch 110642 ap | plies to the | following sa | mples: 230 | 06135-01D, 230 | 6135-02D, 23 | 306135-03[|), 230613 | 5-04D, 23061 | 35-05D | | |
| Sample ID: I | MB-110642 | Batch ID: | 110642 | | TestNo | : E300 |) | | Units: | mg/L | | |
| SampType: I | MBLK | Run ID: | IC2_2306 | 614B | Analysi | s Date: 6/14/ | /2023 10:44 | 1:06 AM | Prep Date: | 6/14/20 | 023 | |
| Analyte | | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | 6RPD R | PDLimit | Qual |
| Chloride | | | <0.300 | 1.00 | | | | | | | | |
| Sulfate | | | <1.00 | 3.00 | | | | | | | | |
| Sample ID: I | LCS-110642 | Batch ID: | 110642 | | TestNo | : E300 |) | | Units: | mg/L | | |
| SampType: I | LCS | Run ID: | IC2_2306 | 514B | Analysi | s Date: 6/14/ | /2023 11:01 | 1:06 AM | Prep Date: | 6/14/20 | 023 | |
| Analyte | | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | 6RPD R | PDLimit | Qual |
| Chloride | | | 9.00 | 1.00 | 10.00 | 0 | 90.0 | 90 | 110 | | | |
| Sulfate | | | 28.6 | 3.00 | 30.00 | 0 | 95.4 | 90 | 110 | | | |
| Sample ID: I | LCSD-110642 | Batch ID: | 110642 | | TestNo | : E300 |) | | Units: | mg/L | | |
| SampType: I | LCSD | Run ID: | IC2_2306 | 614B | Analysi | s Date: 6/14/ | /2023 11:18 | 3:06 AM | Prep Date: | 6/14/20 | 023 | |
| Analyte | | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | 6RPD R | PDLimit | Qual |
| Chloride | | | 9.02 | 1.00 | 10.00 | 0 | 90.2 | 90 | 110 | 0.217 | 20 | |
| Sulfate | | | 28.7 | 3.00 | 30.00 | 0 | 95.6 | 90 | 110 | 0.196 | 20 | |
| Sample ID: 2 | 2306135-04DMS | Batch ID: | 110642 | | TestNo | : E30 0 |) | | Units: | mg/L | | |
| SampType: I | MS | Run ID: | IC2_2306 | 14B | Analysi | s Date: 6/14/ | /2023 3:49: | 07 PM | Prep Date: | 6/14/20 | 023 | |
| Analyte | | | | | | | | | | | | |
| Allalyte | | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | 6RPD R | PDLimit | Qual |
| Chloride | | | Result 3270 | RL 100 | SPK value | | %REC 82.2 | LowLim 90 | it HighLimit % | 6RPD R | PDLimit | Qual S |
| | | | | | | Ref Val | | | | %RPD R | PDLimit | |
| Chloride Sulfate | 2306135-04DMSD | Batch ID: | 3270 | 100 | 2000 | Ref Val 1626 631.4 | 82.2 90.8 | 90 | 110 | 6RPD R | PDLimit | |
| Chloride Sulfate | | Batch ID: Run ID: | 3270 2450 | 100 300 | 2000 2000 TestNo | Ref Val 1626 631.4 | 82.2 90.8 | 90 90 | 110 110 | | | |
| Chloride Sulfate Sample ID: 2 | | Run ID: | 3270 2450 110642 | 100 300 | 2000 2000 TestNo | Ref Val 1626 631.4 | 82.2 90.8 | 90 90 07 PM | 110 110 Units: | mg/L 6/14/20 | 023 | S |
| Chloride Sulfate Sample ID: 2 SampType: I | | Run ID: | 3270 2450 110642 IC2_2306 | 100 300 | 2000 2000 TestNo Analysi | Ref Val 1626 631.4 : E300 s Date: 6/14/ | 82.2 90.8) /2023 4:06: | 90 90 07 PM | 110 110 Units: Prep Date: | mg/L 6/14/20 | 023 | S |
| Chloride Sulfate Sample ID: 2 SampType: I | | Run ID: | 3270 2450 110642 IC2_2306 | 100 300 314B | 2000 2000 TestNo Analysi | Ref Val 1626 631.4 : E300 is Date: 6/14/ | 82.2 90.8) /2023 4:06: | 90 90 07 PM LowLim | 110 110 Units: Prep Date: it HighLimit % | mg/L 6/14/2 6 6RPD R | 023 PDLimit | S Qual |
| Chloride Sulfate Sample ID: 2 SampType: I Analyte Chloride Sulfate | | Run ID: | 3270 2450 110642 IC2_2306 Result | 100 300 814B RL 100 | 2000 2000 TestNo Analysi SPK value 2000 | Ref Val 1626 631.4 E 8300 S Date: 6/14/ Ref Val 1626 631.4 | 82.2 90.8 72023 4:06: %REC 83.2 92.5 | 90 90 07 PM LowLim | 110 110 Units: Prep Date: it HighLimit % | mg/L 6/14/2 6 6RPD R 0.608 | 023 PDLimit 20 | S Qual |
| Chloride Sulfate Sample ID: 2 SampType: I Analyte Chloride Sulfate | MSD 2306142-02CMS | Run ID: | 3270 2450 110642 IC2_2306 Result 3290 2480 | 100 300 314B RL 100 300 | 2000 2000 TestNo Analysi SPK value 2000 2000 TestNo | Ref Val 1626 631.4 E 8300 S Date: 6/14/ Ref Val 1626 631.4 | 82.2 90.8 72023 4:06: %REC 83.2 92.5 | 90 90 07 PM LowLim 90 90 | 110 110 Units: Prep Date: it HighLimit % 110 110 | mg/L 6/14/20 6RPD R 0.608 1.33 | D23 PDLimit 20 20 | S Qual |
| Chloride Sulfate Sample ID: 2 SampType: I Analyte Chloride Sulfate Sample ID: 2 | MSD 2306142-02CMS | Run ID: Batch ID: Run ID: | 3270 2450 110642 IC2_2306 Result 3290 2480 110642 | 100 300 314B RL 100 300 | 2000 2000 TestNo Analysi SPK value 2000 2000 TestNo | Ref Val 1626 631.4 E300 S Date: 6/14/ Ref Val 1626 631.4 E300 | 82.2 90.8 72023 4:06: %REC 83.2 92.5 | 90 90 07 PM LowLim 90 90 | 110 110 Units: Prep Date: it HighLimit % 110 110 Units: | mg/L 6/14/20 6RPD R 0.608 1.33 mg/L 6/14/20 | 023 PDLimit 20 20 | S Qual S |
| Chloride Sulfate Sample ID: 2 SampType: I Analyte Chloride Sulfate Sample ID: 2 SampType: I | MSD 2306142-02CMS | Run ID: Batch ID: Run ID: | 3270 2450 110642 IC2_2306 Result 3290 2480 110642 IC2_2306 | 100 300 314B RL 100 300 | 2000 2000 TestNo Analysi SPK value 2000 2000 TestNo Analysi | Ref Val 1626 631.4 E 300 S Date: 6/14/ Ref Val 1626 631.4 E 300 S Date: 6/14/ | 82.2 90.8 72023 4:06: %REC 83.2 92.5 72023 9:29: | 90 90 07 PM LowLim 90 90 | 110 110 Units: Prep Date: it HighLimit % 110 110 Units: Prep Date: | mg/L 6/14/20 6RPD R 0.608 1.33 mg/L 6/14/20 | 023 PDLimit 20 20 | S Qual S |

Qualifiers:

В Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

Reporting Limit

Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

RPD outside accepted control limits R

Spike Recovery outside control limits

Parameter not NELAP certified

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Work Order: 2306135 Project: Trashpit

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_230614B

| Sample ID: 2306142-02CMSD | Batch ID: | 110642 | | TestNo |): E3 0 | 00 | | Units: | mg/L | - | |
|---------------------------|-----------|---------|------|-----------|-----------------------|--------------|--------|--------------|----------|---------|--------|
| SampType: MSD | Run ID: | IC2_230 | 614B | Analys | is Date: 6/1 4 | 4/2023 9:46: | 06 PM | Prep Date | e: 6/14/ | /2023 | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit | %RPD | RPDLimi | t Qual |
| Chloride | | 948 | 10.0 | 200.0 | 0 | 474 | 90 | 110 | 2.00 | 20 | S |
| Sulfate | | 1570 | 30.0 | 200.0 | 1494 | 37.1 | 90 | 110 | 0.155 | 20 | S |

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

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Work Order: 2306135
Project: Trashpit

ANALYTICAL QC SUMMARY REPORT

RunID: IC2 230614B

| Project: | Trashpit | | | | | | KulliD | . 1 | C2_2300. | 14D |
|------------|-------------|-----------|------------|------|-----------|---------------------|------------|---------|-------------|--------------------|
| Sample ID: | ICV-230614 | Batch ID: | R127375 | | TestNo: | E300 | | | Units: | mg/L |
| SampType: | ICV | Run ID: | IC2_230614 | lВ | Analysis | Date: 6/14/2 | 023 10:10: | 06 AM | Prep Date | : |
| Analyte | | | Result | RL | SPK value | Ref Val | %REC | LowLimi | t HighLimit | %RPD RPDLimit Qual |
| Chloride | | | 22.9 | 1.00 | 25.00 | 0 | 91.6 | 90 | 110 | |
| Sulfate | | | 74.6 | 3.00 | 75.00 | 0 | 99.5 | 90 | 110 | |
| Sample ID: | CCV1-230614 | Batch ID: | R127375 | | TestNo: | E300 | | | Units: | mg/L |
| SampType: | ccv | Run ID: | IC2_230614 | lВ | Analysis | Date: 6/14/2 | 023 6:22:0 | 7 PM | Prep Date | : |
| Analyte | | | Result | RL | SPK value | Ref Val | %REC | LowLimi | t HighLimit | %RPD RPDLimit Qual |
| Chloride | | | 9.07 | 1.00 | 10.00 | 0 | 90.7 | 90 | 110 | |
| Sulfate | | | 28.7 | 3.00 | 30.00 | 0 | 95.6 | 90 | 110 | |
| Sample ID: | CCV2-230614 | Batch ID: | R127375 | | TestNo: | E300 | | | Units: | mg/L |
| SampType: | ccv | Run ID: | IC2_230614 | lВ | Analysis | Date: 6/14/2 | 023 10:54: | 06 PM | Prep Date | : |
| Analyte | | | Result | RL | SPK value | Ref Val | %REC | LowLimi | t HighLimit | %RPD RPDLimit Qual |
| Chloride | | | 9.16 | 1.00 | 10.00 | 0 | 91.6 | 90 | 110 | |
| Sulfate | | | 29.1 | 3.00 | 30.00 | 0 | 97.0 | 90 | 110 | |
| | | | | | | | | | | |

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limitsN Parameter not NELAP certified

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ANALYTICAL QC SUMMARY REPORT

Work Order: 2306135 Project: Trashpit

RunID: TITRATOR_230614A

| -10 3000 | | | | | | | | | | ~ |
|----------------------------------|--------------|---------------|------------|--------------|----------------------|---------------|----------|----------------|---------|---------------|
| The QC data in batch 110629 ap | plies to the | following sam | ples: 2306 | 135-01D, 230 | 6135-02D, 2 | 2306135-03D | , 230613 | 5-04D, 23061 | 135-05D | |
| Sample ID: LCS-110629 | Batch ID: | 110629 | | TestNo | : M2 3 | 320 B | | Units: | mg/L | @ pH 4.53 |
| SampType: LCS | Run ID: | TITRATOR | _230614A | Analysi | s Date: 6/14 | 4/2023 1:29:0 | 00 PM | Prep Date: | 6/14/2 | 023 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | 6RPD R | PDLimit Qual |
| Alkalinity, Total (As CaCO3) | | 47.7 | 20.0 | 50.00 | 0 | 95.4 | 74 | 129 | | |
| Sample ID: LCSD-110629 | Batch ID: | 110629 | | TestNo | : M23 | 320 B | | Units: | mg/L | @ pH 4.53 |
| SampType: LCSD | Run ID: | TITRATOR_ | _230614A | Analysi | s Date: 6/1 4 | 4/2023 1:34:0 | 00 PM | Prep Date: | 6/14/2 | 023 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | 6RPD R | RPDLimit Qual |
| Alkalinity, Total (As CaCO3) | | 47.3 | 20.0 | 50.00 | 0 | 94.6 | 74 | 129 | 0.842 | 20 |
| Sample ID: MB-110629 | Batch ID: | 110629 | | TestNo | : M23 | 320 B | | Units: | mg/L | @ pH 4.52 |
| SampType: MBLK | Run ID: | TITRATOR_ | _230614A | Analysi | s Date: 6/1 4 | 4/2023 1:36:0 | 00 PM | Prep Date: | 6/14/2 | 023 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | 6RPD R | PDLimit Qual |
| Alkalinity, Bicarbonate (As CaCC | 93) | <10.0 | 20.0 | | | | | | | |
| Alkalinity, Carbonate (As CaCO3 |) | <10.0 | 20.0 | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) |) | <10.0 | 20.0 | | | | | | | |
| Alkalinity, Total (As CaCO3) | | <10.0 | 20.0 | | | | | | | |
| Sample ID: 2306135-01D-DUP | Batch ID: | 110629 | | TestNo | : M2 3 | 320 B | | Units: | mg/L | @ pH 4.54 |
| SampType: DUP | Run ID: | TITRATOR_ | _230614A | Analysi | s Date: 6/14 | 4/2023 2:15:0 | 00 PM | Prep Date: | 6/14/2 | 023 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | 6RPD R | RPDLimit Qual |
| Alkalinity, Bicarbonate (As CaCC | 3) | 258 | 20.0 | 0 | 262.2 | | | | 1.42 | 20 |
| Alkalinity, Carbonate (As CaCO3 |) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 |
| Alkalinity, Hydroxide (As CaCO3) |) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 |
| Alkalinity, Total (As CaCO3) | | 258 | 20.0 | 0 | 262.2 | | | | 1.42 | 20 |
| Sample ID: 2306142-02C-DUP | Batch ID: | 110629 | | TestNo | : M2 3 | 320 B | | Units: | mg/L | @ pH 4.53 |
| SampType: DUP | Run ID: | TITRATOR_ | _230614A | Analysi | s Date: 6/14 | 4/2023 4:11:0 | 00 PM | Prep Date: | 6/14/2 | 023 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | 6RPD R | PDLimit Qua |
| Alkalinity, Bicarbonate (As CaCC | 93) | 220 | 20.0 | 0 | 219.8 | | | | 0.091 | 20 |
| Alkalinity, Carbonate (As CaCO3 |) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 |
| Alkalinity, Hydroxide (As CaCO3) |) | <10.0 | 20.0 | 0 | 0 | | | | 0 | 20 |
| Alkalinity, Total (As CaCO3) | | 220 | 20.0 | 0 | 219.8 | | | | 0.091 | 20 |
| | | | | | | | | | | |

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limitsS Spike Recovery outside control limits

N Parameter not NELAP certified

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Work Order: 2306135 Project: Trashpit

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_230614A

| Sample ID: ICV-230614 | Batch ID: | R127380 | | TestNo: | M23 | 20 B | | Units: | mg/L @ pH 4.52 |
|----------------------------------|-----------|----------|----------|-----------|-------------------|-------------|--------|----------------|-------------------|
| SampType: ICV | Run ID: | TITRATOR | _230614A | Analysis | Date: 6/14 | /2023 1:21: | 00 PM | Prep Date: | 6/14/2023 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | 6RPD RPDLimit Qua |
| Alkalinity, Bicarbonate (As CaCO | 3) | 18.0 | 20.0 | 0 | | | | | |
| Alkalinity, Carbonate (As CaCO3) |) | 83.0 | 20.0 | 0 | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | | <10.0 | 20.0 | 0 | | | | | |
| Alkalinity, Total (As CaCO3) | | 101 | 20.0 | 100.0 | 0 | 101 | 98 | 102 | |
| Sample ID: CCV-230614 | Batch ID: | R127380 | | TestNo: | M23 | 20 B | | Units: | mg/L @ pH 4.53 |
| SampType: CCV | Run ID: | TITRATOR | _230614A | Analysis | Date: 6/14 | /2023 3:49: | 00 PM | Prep Date: | 6/14/2023 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLim | it HighLimit % | 6RPD RPDLimit Qua |
| Alkalinity, Bicarbonate (As CaCO | 3) | 32.8 | 20.0 | 0 | | | | | |
| Alkalinity, Carbonate (As CaCO3) |) | 69.1 | 20.0 | 0 | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | | <10.0 | 20.0 | 0 | | | | | |
| Alkalinity, Total (As CaCO3) | | 102 | 20.0 | 100.0 | 0 | 102 | 90 | 110 | |
| Sample ID: CCV1-230614 | Batch ID: | R127380 | | TestNo: | M23 | 20 B | | Units: | mg/L @ pH 4.53 |

| Sample ID: CCV1-230614 | Batch ID: | R127380 | | TestNo | : M2 | 320 B | | Units: | mg/L @ pH 4.53 |
|-----------------------------------|-----------|----------|-----------|-----------|---------------------|---------------|----------|-----------|--------------------|
| SampType: CCV | Run ID: | TITRATOR | R_230614A | Analys | is Date: 6/1 | 4/2023 5:18:0 | 00 PM | Prep Date | e: 6/14/2023 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD RPDLimit Qual |
| Alkalinity, Bicarbonate (As CaCO3 | 3) | 31.1 | 20.0 | 0 | | | | | |
| Alkalinity, Carbonate (As CaCO3) | | 60.8 | 20.0 | 0 | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | | <10.0 | 20.0 | 0 | | | | | |
| Alkalinity, Total (As CaCO3) | | 91.9 | 20.0 | 100.0 | 0 | 91.9 | 90 | 110 | |

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

Page 12 of 13

S Spike Recovery outside control limits

Work Order: 2306135

ANALYTICAL QC SUMMARY REPORT

Project: Trashpit RunID: WC_230614C

| The QC data in batch 110650 ap | plies to the | following samp | les: 2306 | 6135-01D, 2306 | 135-02D, 23 | 06135-03D | , 2306135 | 5-04D, 23061 | 35-05D | |
|----------------------------------|--------------|----------------|-----------|----------------|--------------|-------------|-----------|---------------|----------|-------------|
| Sample ID: MB-110650 | Batch ID: | 110650 | | TestNo: | M254 | 0C | | Units: | mg/L | |
| SampType: MBLK | Run ID: | WC_230614 | С | Analysis | Date: 6/14/2 | 2023 5:15:0 | 00 PM | Prep Date: | 6/14/202 | 23 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | t HighLimit % | RPD RP | DLimit Qual |
| Total Dissolved Solids (Residue, | Filtera | <10.0 | 10.0 | | | | | | | |
| Sample ID: LCS-110650 | Batch ID: | 110650 | | TestNo: | M254 | 0C | | Units: | mg/L | |
| SampType: LCS | Run ID: | WC_230614 | .c | Analysis | Date: 6/14/2 | 2023 5:15:0 | 00 PM | Prep Date: | 6/14/202 | 23 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | t HighLimit % | RPD RP | DLimit Qual |
| Total Dissolved Solids (Residue, | Filtera | 750 | 10.0 | 745.6 | 0 | 101 | 90 | 113 | | |
| Sample ID: 2306115-02B-DUP | Batch ID: | 110650 | | TestNo: | M254 | 0C | | Units: | mg/L | |
| SampType: DUP | Run ID: | WC_230614 | .c | Analysis | Date: 6/14/2 | 2023 5:15:0 | 00 PM | Prep Date: | 6/14/202 | 23 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | t HighLimit % | RPD RP | DLimit Qual |
| Total Dissolved Solids (Residue, | Filtera | 10400 | 200 | 0 | 10540 | | | | 0.953 | 5 |
| Sample ID: 2306135-04D-DUP | Batch ID: | 110650 | | TestNo: | M254 | 0C | | Units: | mg/L | |
| SampType: DUP | Run ID: | WC_230614 | С | Analysis | Date: 6/14/2 | 2023 5:15:0 | 00 PM | Prep Date: | 6/14/202 | 23 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | t HighLimit % | RPD RP | DLimit Qual |
| Total Dissolved Solids (Residue, | Filtera | 4320 | 50.0 | 0 | 4375 | | | | 1.38 | 5 |

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

 $\begin{array}{ll} S & \text{Spike Recovery outside control limits} \\ N & \text{Parameter not NELAP certified} \end{array}$

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Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 09, 2024

Max Cook

Ranger Environmental Services, LLC P.O. Box 201179

Austin, TX 78720

TEL: (512) 335-1785 FAX: (512) 335-0527

RE: LMPSU Trash Pit OrderNo.: 2312D40

Dear Max Cook:

Eurofins Environment Testing South Central, LLC received 5 sample(s) on 12/22/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 1/9/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ranger Environmental Services, LLC Client Sample ID: MW-1

 Project:
 LMPSU Trash Pit
 Collection Date: 12/20/2023 1:45:00 PM

 Lab ID:
 2312D40-001
 Matrix: AQUEOUS
 Received Date: 12/22/2023 7:45:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|------|---------|-----|------------------------|
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: JJP |
| Benzene | ND | 1.0 | | μg/L | 1 | 12/27/2023 5:15:18 PM |
| Toluene | ND | 1.0 | | μg/L | 1 | 12/27/2023 5:15:18 PM |
| Ethylbenzene | ND | 1.0 | | μg/L | 1 | 12/27/2023 5:15:18 PM |
| Xylenes, Total | ND | 2.0 | | μg/L | 1 | 12/27/2023 5:15:18 PM |
| Surr: 4-Bromofluorobenzene | 92.5 | 52.4-148 | | %Rec | 1 | 12/27/2023 5:15:18 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: SNS |
| Chloride | 1500 | 50 | * | mg/L | 100 | 12/23/2023 11:08:20 AM |
| Sulfate | 540 | 50 | * | mg/L | 100 | 12/23/2023 11:08:20 AM |
| EPA METHOD 6010B: DISSOLVED METALS | | | | | | Analyst: VP |
| Calcium | 160 | 5.0 | | mg/L | 5 | 12/29/2023 9:04:34 AM |
| Magnesium | 240 | 5.0 | | mg/L | 5 | 12/29/2023 9:04:34 AM |
| Potassium | 24 | 1.0 | | mg/L | 1 | 12/29/2023 8:50:54 AM |
| Sodium | 1200 | 20 | | mg/L | 20 | 1/3/2024 10:15:37 AM |
| SM2320B: ALKALINITY | | | | | | Analyst: RBC |
| Bicarbonate (As CaCO3) | 611.1 | 20.00 | | mg/L Ca | 1 | 12/28/2023 7:16:08 PM |
| Carbonate (As CaCO3) | ND | 2.000 | | mg/L Ca | 1 | 12/28/2023 7:16:08 PM |
| Total Alkalinity (as CaCO3) | 611.1 | 20.00 | | mg/L Ca | 1 | 12/28/2023 7:16:08 PM |
| SM2540C MOD: TOTAL DISSOLVED SOLIDS | | | | | | Analyst: KS |
| Total Dissolved Solids | 3830 | 50.0 | * | mg/L | 1 | 1/2/2024 9:59:00 AM |

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

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

Date Reported: 1/9/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ranger Environmental Services, LLC

Project: LMPSU Trash Pit

Lab ID:

2312D40-002 Matrix: AQUEOUS

Collection Date: 12/20/2023 10:10:00 AM Received Date: 12/22/2023 7:45:00 AM

Client Sample ID: MW-2

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|------------------------|
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 1.0 | μg/L | 1 | 12/27/2023 5:39:04 PM |
| Toluene | ND | 1.0 | μg/L | 1 | 12/27/2023 5:39:04 PM |
| Ethylbenzene | ND | 1.0 | μg/L | 1 | 12/27/2023 5:39:04 PM |
| Xylenes, Total | ND | 2.0 | μg/L | 1 | 12/27/2023 5:39:04 PM |
| Surr: 4-Bromofluorobenzene | 95.6 | 52.4-148 | %Rec | 1 | 12/27/2023 5:39:04 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 62 | 5.0 | mg/L | 10 | 12/23/2023 11:23:29 AM |
| Sulfate | 110 | 5.0 | mg/L | 10 | 12/23/2023 11:23:29 AM |
| EPA METHOD 6010B: DISSOLVED METALS | | | | | Analyst: VP |
| Calcium | 51 | 1.0 | mg/L | 1 | 12/29/2023 9:07:48 AM |
| Magnesium | 28 | 1.0 | mg/L | 1 | 12/29/2023 9:07:48 AM |
| Potassium | 5.9 | 1.0 | mg/L | 1 | 12/29/2023 9:07:48 AM |
| Sodium | 99 | 1.0 | mg/L | 1 | 12/29/2023 9:07:48 AM |
| SM2320B: ALKALINITY | | | | | Analyst: RBC |
| Bicarbonate (As CaCO3) | 254.8 | 20.00 | mg/L Ca | 1 | 12/28/2023 7:40:48 PM |
| Carbonate (As CaCO3) | ND | 2.000 | mg/L Ca | 1 | 12/28/2023 7:40:48 PM |
| Total Alkalinity (as CaCO3) | 254.8 | 20.00 | mg/L Ca | 1 | 12/28/2023 7:40:48 PM |
| SM2540C MOD: TOTAL DISSOLVED SOLIDS | | | | | Analyst: KS |
| Total Dissolved Solids | 594 | 50.0 | * mg/L | 1 | 1/2/2024 9:59:00 AM |

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

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

Date Reported: 1/9/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ranger Environmental Services, LLC Client Sample ID: MW-3

 Project:
 LMPSU Trash Pit
 Collection Date: 12/20/2023 1:10:00 PM

 Lab ID:
 2312D40-003
 Matrix: AQUEOUS
 Received Date: 12/22/2023 7:45:00 AM

| Analyses | Result | RL Q | ual | Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|-----|---------|-----|------------------------|
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: JJP |
| Benzene | ND | 1.0 | | μg/L | 1 | 12/27/2023 6:02:38 PM |
| Toluene | ND | 1.0 | | μg/L | 1 | 12/27/2023 6:02:38 PM |
| Ethylbenzene | ND | 1.0 | | μg/L | 1 | 12/27/2023 6:02:38 PM |
| Xylenes, Total | ND | 2.0 | | μg/L | 1 | 12/27/2023 6:02:38 PM |
| Surr: 4-Bromofluorobenzene | 91.6 | 52.4-148 | | %Rec | 1 | 12/27/2023 6:02:38 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: SNS |
| Chloride | 440 | 50 | * | mg/L | 100 | 12/23/2023 1:09:35 PM |
| Sulfate | 280 | 5.0 | * | mg/L | 10 | 12/23/2023 12:54:27 PM |
| EPA METHOD 6010B: DISSOLVED METALS | | | | | | Analyst: VP |
| Calcium | 82 | 1.0 | | mg/L | 1 | 12/29/2023 9:13:36 AM |
| Magnesium | 74 | 1.0 | | mg/L | 1 | 12/29/2023 9:13:36 AM |
| Potassium | 9.8 | 1.0 | | mg/L | 1 | 12/29/2023 9:13:36 AM |
| Sodium | 260 | 5.0 | | mg/L | 5 | 12/29/2023 9:16:53 AM |
| SM2320B: ALKALINITY | | | | | | Analyst: RBC |
| Bicarbonate (As CaCO3) | 204.5 | 20.00 | | mg/L Ca | 1 | 12/28/2023 7:53:19 PM |
| Carbonate (As CaCO3) | ND | 2.000 | | mg/L Ca | 1 | 12/28/2023 7:53:19 PM |
| Total Alkalinity (as CaCO3) | 204.5 | 20.00 | | mg/L Ca | 1 | 12/28/2023 7:53:19 PM |
| SM2540C MOD: TOTAL DISSOLVED SOLIDS | | | | | | Analyst: KS |
| Total Dissolved Solids | 1380 | 50.0 | * | mg/L | 1 | 1/2/2024 9:59:00 AM |

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

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

Client Sample ID: MW-4

Date Reported: 1/9/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ranger Environmental Services, LLC

Project: LMPSU Trash Pit Collection Date: 12/20/2023 12:40:00 PM

Lab ID: 2312D40-004 Matrix: AQUEOUS Received Date: 12/22/2023 7:45:00 AM

| Analyses | Result | RL Q | ual Unit | s DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|-------|-----------------------|
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 1.0 | μg/L | . 1 | 12/27/2023 6:26:37 PM |
| Toluene | ND | 1.0 | μg/L | . 1 | 12/27/2023 6:26:37 PM |
| Ethylbenzene | ND | 1.0 | μg/L | . 1 | 12/27/2023 6:26:37 PM |
| Xylenes, Total | ND | 2.0 | μg/L | . 1 | 12/27/2023 6:26:37 PM |
| Surr: 4-Bromofluorobenzene | 92.8 | 52.4-148 | %R | ec 1 | 12/27/2023 6:26:37 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 160 | 5.0 | mg/ | L 10 | 12/23/2023 1:24:45 PM |
| Sulfate | 180 | 5.0 | mg/ | L 10 | 12/23/2023 1:24:45 PM |
| EPA METHOD 6010B: DISSOLVED METALS | | | | | Analyst: VP |
| Calcium | 68 | 1.0 | mg/ | L 1 | 12/29/2023 9:19:51 AM |
| Magnesium | 43 | 1.0 | mg/ | L 1 | 12/29/2023 9:19:51 AM |
| Potassium | 8.2 | 1.0 | mg/ | L 1 | 12/29/2023 9:19:51 AM |
| Sodium | 140 | 5.0 | mg/ | L 5 | 12/29/2023 9:22:50 AM |
| SM2320B: ALKALINITY | | | | | Analyst: RBC |
| Bicarbonate (As CaCO3) | 244.8 | 20.00 | mg/ | LCa 1 | 12/28/2023 8:09:14 PM |
| Carbonate (As CaCO3) | ND | 2.000 | mg/ | LCa 1 | 12/28/2023 8:09:14 PM |
| Total Alkalinity (as CaCO3) | 244.8 | 20.00 | mg/ | LCa 1 | 12/28/2023 8:09:14 PM |
| SM2540C MOD: TOTAL DISSOLVED SOLIDS | | | | | Analyst: KS |
| Total Dissolved Solids | 816 | 100 | *D mg/ | L 1 | 1/2/2024 9:59:00 AM |

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

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

Date Reported: 1/9/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ranger Environmental Services, LLC Client Sample ID: Duplicate

 Project:
 LMPSU Trash Pit
 Collection Date: 12/20/2023 10:20:00 AM

 Lab ID:
 2312D40-005
 Matrix: AQUEOUS
 Received Date: 12/22/2023 7:45:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 1.0 | μg/L | 1 | 12/27/2023 6:50:11 PM |
| Toluene | ND | 1.0 | μg/L | 1 | 12/27/2023 6:50:11 PM |
| Ethylbenzene | ND | 1.0 | μg/L | 1 | 12/27/2023 6:50:11 PM |
| Xylenes, Total | ND | 2.0 | μg/L | 1 | 12/27/2023 6:50:11 PM |
| Surr: 4-Bromofluorobenzene | 92.0 | 52.4-148 | %Rec | 1 | 12/27/2023 6:50:11 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 61 | 5.0 | mg/L | 10 | 12/23/2023 1:55:03 PM |
| Sulfate | 110 | 5.0 | mg/L | 10 | 12/23/2023 1:55:03 PM |
| EPA METHOD 6010B: DISSOLVED METALS | | | | | Analyst: VP |
| Calcium | 54 | 5.0 | mg/L | 5 | 12/29/2023 9:47:05 AM |
| Magnesium | 28 | 1.0 | mg/L | 1 | 12/29/2023 9:25:47 AM |
| Potassium | 6.0 | 1.0 | mg/L | 1 | 12/29/2023 9:25:47 AM |
| Sodium | 100 | 5.0 | mg/L | 5 | 12/29/2023 9:47:05 AM |
| SM2320B: ALKALINITY | | | | | Analyst: RBC |
| Bicarbonate (As CaCO3) | 253.8 | 20.00 | mg/L Ca | 1 | 12/28/2023 8:22:15 PM |
| Carbonate (As CaCO3) | ND | 2.000 | mg/L Ca | 1 | 12/28/2023 8:22:15 PM |
| Total Alkalinity (as CaCO3) | 253.8 | 20.00 | mg/L Ca | 1 | 12/28/2023 8:22:15 PM |
| SM2540C MOD: TOTAL DISSOLVED SOLIDS | | | | | Analyst: KS |
| Total Dissolved Solids | 603 | 50.0 * | mg/L | 1 | 1/2/2024 9:59:00 AM |

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

2312D40 09-Jan-24

WO#:

Client: Ranger Environmental Services, LLC

Project: LMPSU Trash Pit

Sample ID: MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R102083 RunNo: 102083

Prep Date: Analysis Date: 12/23/2023 SeqNo: 3767589 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Chloride
 ND
 0.50

 Sulfate
 ND
 0.50

Sample ID: LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R102083 RunNo: 102083

Prep Date: Analysis Date: 12/23/2023 SeqNo: 3767590 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride 4.9 0.50 5.000 0 97.1 90 110

Sulfate 9.9 0.50 10.00 0 99.0 90 110

Sample ID: 2312D40-002BMS SampType: MS TestCode: EPA Method 300.0: Anions

Client ID: MW-2 Batch ID: R102083 RunNo: 102083

Prep Date: Analysis Date: 12/23/2023 SeqNo: 3767599 Units: mg/L

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Chloride 110 5.0 50.00 61.75 97.5 80 120

Sulfate 200 5.0 100.0 61.75 97.5 80 120

Sample ID: 2312D40-002BMSD SampType: MSD TestCode: EPA Method 300.0: Anions

Client ID: MW-2 Batch ID: R102083 RunNo: 102083

Prep Date: Analysis Date: 12/23/2023 SeqNo: 3767600 Units: mg/L

LowLimit Analyte **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual 110 50.00 61.75 94.4 80 120 1.42 20 Chloride 5.0 Sulfate 200 5.0 100.0 107.7 94.1 80 120 1.41 20

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312D40** *09-Jan-24*

Client: Ranger Environmental Services, LLC

Project: LMPSU Trash Pit

| Sample ID: 100ng btex Ics | • | Type: LC | | | | | 8021B: Volati | les | | |
|----------------------------|------------|----------|-----------|-------------|-----------|----------|---------------|------|----------|------|
| Client ID: LCSW | Batcl | h ID: BA | 102084 | ŀ | RunNo: 10 | 02084 | | | | |
| Prep Date: | Analysis D | Date: 12 | /27/2023 | 5 | SeqNo: 37 | 768109 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 18 | 1.0 | 20.00 | 0 | 92.0 | 70 | 130 | | | |
| Toluene | 18 | 1.0 | 20.00 | 0 | 92.4 | 70 | 130 | | | |
| Ethylbenzene | 19 | 1.0 | 20.00 | 0 | 93.4 | 70 | 130 | | | |
| Xylenes, Total | 56 | 2.0 | 60.00 | 0 | 93.5 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 19 | | 20.00 | | 95.1 | 52.4 | 148 | | | |

| Sample ID: mb | Samp | Гуре: МЕ | BLK | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|-----------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: PBW | Batcl | h ID: BA | 102084 | F | RunNo: 10 | 02084 | | | | |
| Prep Date: | Analysis [| Date: 12 | 2/27/2023 | 5 | SeqNo: 37 | 768110 | 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 | | | | | | | | |
| Xylenes, Total | ND | 2.0 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 19 | | 20.00 | | 96.1 | 52.4 | 148 | | | |

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

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312D40

09-Jan-24

Client: Ranger Environmental Services, LLC

Project: LMPSU Trash Pit

Sample ID: MB-A SampType: MBLK TestCode: EPA Method 6010B: Dissolved Metals Client ID: PBW Batch ID: A102146 RunNo: 102146 Prep Date: Analysis Date: 12/29/2023 SeqNo: 3770190 Units: mg/L SPK Ref Val %RPD **RPDLimit** Analyte Result **PQL** SPK value %REC LowLimit HighLimit Qual Calcium ND 1.0 ND 1.0 ND 1.0

Magnesium Potassium Sodium ND 1.0

Sample ID: LCS_CAT-A TestCode: EPA Method 6010B: Dissolved Metals SampType: LCS Client ID: LCSW Batch ID: A102146 RunNo: 102146 Prep Date: Analysis Date: 12/29/2023 SeqNo: 3770197 Units: mg/L SPK Ref Val %REC HighLimit %RPD RPDI imit Analyte Result POI SPK value LowLimit Qual 50.00 0 108 80 Calcium 54 1.0 120 0 120 Magnesium 50 1.0 50.00 100 80 Potassium 49 1.0 50.00 0 98.6 80 120 Sodium 48 0 95.3 1.0 50.00 80 120

Sample ID: 2312D40-005CMS TestCode: EPA Method 6010B: Dissolved Metals SampType: MS Client ID: **Duplicate** Batch ID: A102146 RunNo: 102146 Prep Date: Analysis Date: 12/29/2023 SeqNo: 3770212 Units: mg/L %RPD **RPDLimit** Analyte Result PQI SPK value SPK Ref Val %REC LowLimit HighLimit Qual 78 1.0 50.00 28.44 98.9 75 125 Magnesium Potassium 56 1.0 50.00 5.996 100 75 125

Sample ID: 2312D40-005CMSD SampType: MSD TestCode: EPA Method 6010B: Dissolved Metals Client ID: **Duplicate** Batch ID: A102146 RunNo: 102146 Prep Date: Analysis Date: 12/29/2023 SeqNo: 3770213 Units: ma/L **PQL** SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result SPK value LowLimit Qual Magnesium 78 1.0 50.00 28 44 99.1 75 125 0.108 20 Potassium 56 1.0 50.00 5.996 99.8 75 125 0.338 20

Sample ID: 2312D40-005CMS SampType: MS TestCode: EPA Method 6010B: Dissolved Metals Client ID: **Duplicate** Batch ID: A102146 RunNo: 102146 Prep Date: Analysis Date: 12/29/2023 SeqNo: 3770218 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 330 5.0 250.0 53.92 110 75 125 360 5.0 250.0 104.8 103 75 125 Sodium

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312D40** *09-Jan-24*

Client: Ranger Environmental Services, LLC

Project: LMPSU Trash Pit

| Sample ID: | 2312D40-005CMSD | SampT | уре: МЅ | D | Tes | tCode: EF | PA Method | 6010B: Dissol | ved Meta | ls | |
|------------|-----------------|------------|-----------------|-----------|-------------|-----------|-----------|---------------|----------|----------|------|
| Client ID: | Duplicate | Batch | ID: A10 | 02146 | F | RunNo: 10 | 02146 | | | | |
| Prep Date: | | Analysis D | ate: 12 | /29/2023 | 9 | SeqNo: 37 | 770219 | Units: mg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium | | 330 | 5.0 | 250.0 | 53.92 | 111 | 75 | 125 | 0.605 | 20 | |
| Sodium | | 370 | 5.0 | 250.0 | 104.8 | 107 | 75 | 125 | 2.61 | 20 | |
| Sample ID: | MB-A | SampT | уре: МВ | sLK | Tes | tCode: EF | PA Method | 6010B: Dissol | ved Meta | ls | |
| Client ID: | PBW | Batch | ID: A1 0 | 02198 | F | RunNo: 10 | 02198 | | | | |

| Sample ID. | IVI D-A | Samp i ype. | WIDLK | 1 63 | sicode. E | r A IVIELLIOU | 00 10D. DISSUI | veu ivietai | 15 | | |
|------------|---------|----------------|-------------|-------------|-----------|---------------|----------------|-------------|----------|------|--|
| Client ID: | PBW | Batch ID: | A102198 | F | RunNo: 1 | 02198 | | | | | |
| Prep Date: | | Analysis Date: | 1/3/2024 | ; | SeqNo: 3 | 772839 | Units: mg/L | | | | |
| Analyte | | Result PC | L SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Sodium | | ND ^ | 1.0 | | | | | | | | |

| Sample ID: LCS_CAT-A | SampTy | pe: LC | S | Tes | tCode: EF | PA Method | 6010B: Dissol | ved Metal | s | |
|----------------------|-------------|-----------------|-----------|-------------|-----------|-----------|---------------|-----------|----------|------|
| Client ID: LCSW | Batch | ID: A1 0 | 02198 | F | RunNo: 10 | 2198 | | | | |
| Prep Date: | Analysis Da | ate: 1/3 | 3/2024 | 5 | SeqNo: 37 | 772842 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sodium | 52 | 1.0 | 50.00 | 0 | 104 | 80 | 120 | | | |

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

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312D40 09-Jan-24

Client: Ranger Environmental Services, LLC

Project: LMPSU Trash Pit

Sample ID: MB-1 Alk SampType: MBLK TestCode: SM2320B: Alkalinity

Client ID: PBW Batch ID: R102142 RunNo: 102142

Prep Date: Analysis Date: 12/28/2023 SeqNo: 3769911 Units: mg/L CaCO3

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Alkalinity (as CaCO3) ND 20.00

Sample ID: LCS-1 Alk SampType: LCS TestCode: SM2320B: Alkalinity

Client ID: LCSW Batch ID: R102142 RunNo: 102142

Prep Date: Analysis Date: 12/28/2023 SeqNo: 3769912 Units: mg/L CaCO3

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Alkalinity (as CaCO3) 77.76 20.00 80.00 0 97.2 90 110

Sample ID: MB-2 Alk SampType: MBLK TestCode: SM2320B: Alkalinity

Client ID: PBW Batch ID: R102142 RunNo: 102142

Prep Date: Analysis Date: 12/28/2023 SeqNo: 3769934 Units: mg/L CaCO3

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Alkalinity (as CaCO3) ND 20.00

Sample ID: LCS-2 Alk SampType: LCS TestCode: SM2320B: Alkalinity

Client ID: LCSW Batch ID: R102142 RunNo: 102142

Prep Date: Analysis Date: 12/28/2023 SeqNo: 3769935 Units: mg/L CaCO3

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Alkalinity (as CaCO3) 78.32 20.00 80.00 0 97.9 90 110

Sample ID: MB-3 Alk SampType: MBLK TestCode: SM2320B: Alkalinity

Client ID: PBW Batch ID: R102142 RunNo: 102142

Prep Date: Analysis Date: 12/28/2023 SeqNo: 3769956 Units: mg/L CaCO3

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Alkalinity (as CaCO3) ND 20.00

Sample ID: LCS-3 Alk SampType: LCS TestCode: SM2320B: Alkalinity

Client ID: LCSW Batch ID: R102142 RunNo: 102142

Prep Date: Analysis Date: 12/28/2023 SeqNo: 3769957 Units: mg/L CaCO3

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Alkalinity (as CaCO3) 78.40 20.00 80.00 0 98.0 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

2312D40 09-Jan-24

WO#:

Client: Ranger Environmental Services, LLC

Project: LMPSU Trash Pit

Sample ID: MB-79605 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 79605 RunNo: 102170

Prep Date: 12/27/2023 Analysis Date: 1/2/2024 SeqNo: 3771486 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 50.0

Sample ID: LCS-79605 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 79605 RunNo: 102170

Prep Date: 12/27/2023 Analysis Date: 1/2/2024 SeqNo: 3771487 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 50.0 1000 0 101 80 120

Sample ID: 2312D40-002BDUP SampType: DUP TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: MW-2 Batch ID: 79605 RunNo: 102170

Prep Date: 12/27/2023 Analysis Date: 1/2/2024 SeqNo: 3771506 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 610 50.0 2.66 10 *

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Environment Testin

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www hallenvironmental com

Sample Log-In Check List

Released to Imaging: 6/12/2024 4:03:49 PM

| | weosite. www.nui | ienvironmeniai.com | , | | |
|--|----------------------|--------------------|------------|-----------------------------|-----------------|
| Client Name: Ranger Environmental | Work Order Number: | 2312D40 | | RcptNo: 1 | |
| Received By: Tracy Casarrubias 1 | 2/22/2023 7:45:00 AN | l | | | |
| Completed By: Tracy Casarrubias 1 | 2/22/2023 11:02:13 A | М | | | |
| Reviewed By: CM | 2/22/23 | | | | |
| | | | | | |
| Chain of Custody | | | | | |
| 1. Is Chain of Custody complete? | | Yes 🗹 | No 🗌 | Not Present \square | |
| 2. How was the sample delivered? | | Courier | | | |
| Log In | | | | | |
| 3. Was an attempt made to cool the samples? | | Yes 🗹 | No 🗌 | NA \square | |
| | | | _ | | |
| 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 🗌 | | |
| o. campic(s) in proper container(s): | | | | | |
| 6. Sufficient sample volume for indicated test(s)? | | Yes 🗹 | No 🗌 | 12/23. | |
| 7. Are samples (except VOA and ONG) properly p | reserved? | Yes 🗹 | No 🗆 | 12/2 | |
| 8. Was preservative added to bottles? | | Yes 🖳 | No 🛂 | 12/22/23. | |
| 9. Received at least 1 vial with headspace <1/4" for | or AQ VOA? | Yes 🗹 | No 🗌 | NA \square | |
| 10. Were any sample containers received broken? | | Yes | No 🗹 🔣 | | |
| | | | | of preserved ottles checked | |
| 11. Does paperwork match bottle labels? | | Yes 🗹 | No 📙 fo | or pH: \$ | 2 unless noted) |
| (Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Customark. | stady? | Yes 🗹 | No 🗆 | Adjusted? | 2(|
| 13. Is it clear what analyses were requested? | • | Yes 🗹 | No 🗌 | | 1 - 1- |
| 14. Were all holding times able to be met? | | Yes 🗹 | No 🗆 | Checked by: | ~12/22/2 |
| (If no, notify customer for authorization.) | | | | | |
| Special Handling (if applicable) | | | | | |
| 15. Was client notified of all discrepancies with this | order? | Yes | No 🗌 | NA 🗹 | |
| Person Notified: | Date: | | | | |
| By Whom: | Via: | eMail Phor | ne 🗌 Fax 📋 |] In Person | |
| Regarding: | | | | | |
| Client Instructions: | | | | | n |
| 16. Additional remarks: O. Uml of H | NU3(7342 | Juas a | doled | to sampl | -6 007-C |
| 17. Cooler Information Curph a | 22. 1412 | 122/23 | | | |
| Cooler No Temp °C Condition Seal | Intact Seal No S | eal Date Sig | ned By | | |
| 1 5.1 Good Yes | Morty | | | | |

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| Chain-of-Custody Record | I urn-Around Ime: | HAII ENVIDONMENTAI |
|---|--|--|
| Client: Range Empronamental Services | Standard 🗆 Rush | |
| ļ | Project Name: | www.hallenvironmental.com |
| Mailing Address: PO Box 201179 | LMPSU Trash Pit | 4901 Hawkins NE - Albuquerque, NM 87109 |
| tin, T | | Tel. 505-345-3975 Fax 505-345-4107 |
| Phone #: 512-335-1785 | 6875 | Analysis Request |
| X @ Ra | Project Manager: | *OS |
| ige: | | Apsended the second of the sec |
| | الر الر | OS() (SO(2) (SO(2) |
| Accreditation: | Sampler: K. Ede | 0 / 0 808/4.1-40 828 10 0 NO |
| FDD (Type) | lers. | dess dess dess dess dess |
| | Cooler Temp(including cF): 4, 9+0.2:5,1 (°C) | MTI 15D(etho yy 83 3 Mee 3r, N 'OA) |
| | Container Preservative HEAL No. | TEX / 1981 Pe 1980 (M 250 (S 270 (S 250 (V 250 (S 250 (V 250 (S 250 (V 250 (S 250 (S)))))))))))))))))))))))))) |
| Date Time Matrix Sample Name | Type | 82 EE |
| 12/20/2x 1245 Had MW-1 | 5, Physical HCI, HMB3, OOI | ×× |
| 2- W/M Oct 000 12/10/21 | Pushick Ho | X |
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| Date: Time: Relinquished by: | Received by: Via: San Date Time | Remarks: |
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| ш. | ∜ ia: | |
| 12/2 1135 Just & Musqu | Christian Company | |
| if necessary samples submitted to Hall Environmental may be subcontracted to office accedited laboratories. | | This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. |

Religiased to Imaging: 0 12/2014 4.03.49 PM mental may be subcontin

Received by OCD: 4/30/2024 12:16:12 PM

Please have all samples analyzed for the following constituents

| Test | Method | |
|---|--------|--|
| BTEX | 8021B | |
| Anions :: | | |
| including Chloride & Sulfate | 300 | |
| Dissolved Metals :: | | |
| including Calcium, Magnesium, Potassium, Sodium | 6020B | |
| Alkalinity :: | | |
| including Bicarbonate, Carbonate, Hydroxide, Total Alkalinity | M2320B | |
| TDS | M2540C | |

Ranger-Lmpsu Trash pit



LMPSU Trash Pit (1RP-3660) Groundwater Sampling Notice

max cook <max@rangerenv.com>
To: OCD.Enviro@emnrd.nm.gov

Thu, Dec 14, 2023 at 4:52 PM

On behalf of Team Operating, LLC, please let this email serve as notification that personnel from Ranger Environmental Services will be at the LMPSU Trash Pit (1RP-3660) on December 20, 2023, at approximately 8:00am MST to collect groundwater samples from four monitoring wells associated with the site.

If you have any questions, please do not hesitate to contact me. Thanks!

Max Cook, CAPM Senior Program Manager Ranger Environmental Services P.O. Box 201179 Austin, TX 78720 www.rangerenv.com

512.335.1785 ext. 128 (o) 512.497.1556 (c)



Legacy Reserves LMPSU Trash Pit (1RP-3660) Groundwater Sampling Notice

max cook <max@rangerenv.com>

Thu, Dec 14, 2023 at 4:43 PM

To: michael.buchanan@emnrd.nm.gov, nelson.velez@emnrd.nm.gov Cc: Chris Kowalski <chris.kowalski@teamoperating.com>

On behalf of Team Operating, LLC, please let this email serve as notification that personnel from Ranger Environmental Services will be at the LMPSU Trash Pit (1RP-3660) on December 20, 2023, at approximately 8:00am MST to collect groundwater samples from four monitoring wells associated with the site.

If you have any questions, please do not hesitate to contact me. Thanks!

Max Cook, CAPM Senior Program Manager Ranger Environmental Services P.O. Box 201179 Austin, TX 78720 www.rangerenv.com

512.335.1785 ext. 128 (o) 512.497.1556 (c)



LMPSU Trash Pit (1RP-3660) Groundwater Sampling Notice

Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Fri, Dec 15, 2023 at 10:08 AM

To: max cook <max@rangerenv.com>

Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Good morning Max,

Thank you for providing the notice. It has been received. Should sampling times or dates change please keep OCD informed.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/

From: max cook <max@rangerenv.com>
Sent: Thursday, December 14, 2023 3:53 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Subject: [EXTERNAL] LMPSU Trash Pit (1RP-3660) Groundwater Sampling Notice

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

[Quoted text hidden]



Langlie Mattix Penrose Sand Unit Trash Pit :: Incident ID nTO1427254875 :: Extension Request (30 days)

Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov> Tue, Mar 26, 2024 at 11:56 AM To: max cook <max@rangerenv.com>, "ocdonline, emnrd, EMNRD" <emnrd.ocdonline@emnrd.nm.gov> Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Good morning, Max

This request for a thirty (30) day extension is approved. Please submit this correspondence as part of your next submission in the Annual Groundwater Monitoring report.

Thank you,

Mike Buchanan

From: max cook <max@rangerenv.com> Sent: Tuesday, March 26, 2024 9:02 AM

To: ocdonline, emnrd, EMNRD <emnrd.ocdonline@emnrd.nm.gov>; Buchanan, Michael, EMNRD

<Michael.Buchanan@emnrd.nm.gov>

Subject: [EXTERNAL] Langlie Mattix Penrose Sand Unit Trash Pit :: Incident ID nTO1427254875 :: Extension Request

(30 days)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Mr. Buchanan,

Please let this email serve as a 30-day extension request to submit an annual groundwater monitoring report for the listed site.

Site Name :: Langlie Mattix Penrose Sand Unit Trash Pit

Incident ID:: nTO1427254875

Per a September 14, 2023 correspondence letter, an annual groundwater monitoring report for the referenced site is due on April 1, 2024. Ranger Environmental Services (Ranger) was brought on to the project in December 2023. Since that time, we have completed one groundwater monitoring event at the site. A previous consultant (Revenir Energy) historically completed field work and reporting for this location, including a June 2023 groundwater monitoring event. However, Ranger only recently (this week) received the data for the Revenir June 2023 sampling event. Due to this, we feel a 30-

day extension would give us an appropriate amount of time to analyze their results and generate and submit an annual groundwater monitoring report incorporating both the June and December 2023 sampling events.

If you have any questions, please do not hesitate to contact me. I appreciate your regulatory assistance and look forward to working with you on this project.

--

Max Cook, CAPM

Senior Program Manager Ranger Environmental Services P.O. Box 201179

Austin, TX 78720 www.rangerenv.com

512.335.1785 ext. 128 (o) 512.497.1556 (c)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 339099

CONDITIONS

| Operator: | OGRID: |
|------------------------|--|
| TEAM OPERATING, L.L.C. | 332148 |
| PO Box 835 | Action Number: |
| Pinehurst, TX 77362 | 339099 |
| | Action Type: |
| | [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------------|--|-------------------|
| michael.buchanan | Review of the Annual Groundwater Monitoring Report for Langile Mattix Penrose Sand Unit Trash Pit: content satisfactory 1. Continue to sample groundwater on a semi-annual basis/schedule as previously approved for COCs. 2. Sampling method may be changed to Hydrasleeve, or other passive sampling technique. Please include those details on which method in the next annual groundwater report to OCD. 3. Propose an option for remediation of TDS and chloride in groundwater at the site from the release. 4. Submit the 2024 Annual Groundwater Report with recommendations by April 1, 2025. | 6/12/2024 |