January 30,

2023

Tracking Number: nRM1926352539 / 1RP-5677
2022 4th Quarter (October – December) Groundwater Monitoring
Report, North Monument G/SA Unit #2102
Lea County, New Mexico

Prepared for:

**Apache** 

Apache Corporation 2350 West Marland Blvd. Hobbs, New Mexico 88240

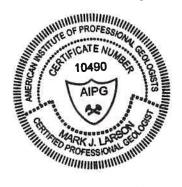
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#### 1.0 EXECUTIVE SUMMARY

Larson & Associates, Inc. (LAI) has prepared this 2022 fourth quarter (October – December) groundwater monitoring report on behalf of Apache Corporation (Apache) for submittal to the New Mexico Oil Conservation Division (NMOCD) in Santa Fe and Hobbs, New Mexico. This report presents the 2022 fourth (4<sup>th</sup>) quarter laboratory analysis of groundwater samples collected from three (3) monitoring wells (MW-2, TMW-1, and TMW-2) at the North Monument Grayburg San Andres Unit (NM G/SAU) #2102 (Site) located in Unit O (SW/4, SE/4), Section 32, Township 19 South, Range 37 East, in Lea County, New Mexico. The geodetic position is North 32.61233° and West -103.27262°.

The following activities occurred on December 12, 2022:

- Gauged three (3) monitoring wells (MW-2, TMW-1, and TMW-2) for light nonaqueous phase liquid (LNAPL) and depth to groundwater.
- Purged and sampled groundwater from three (3) monitor wells (MW-2, TMW-1, and TMW-2).
- Analyzed groundwater samples for benzene, toluene, ethylbenzene, xylenes (BTEX) and chloride.

The following observations are documented in this report:

- Depth to groundwater on December 12, 2022, ranged from 10.93 feet beneath ground surface (bgs) in monitoring well MW-2 to 23.49 feet bgs in monitoring well TMW-2.
- Groundwater flows from northwest to southeast at a gradient of about 0.0266 feet per foot (ft/ft).
- No significant changes in groundwater flow direction or gradient were observed on December 12, 2022.
- Monitoring well MW-2 remains hydraulically up-gradient and representative of background conditions with a chloride concentration of 223 mg/L, and below the New Mexico Water Quality Control Commission (NMWQCC) domestic water quality standard of 250 mg/L.
- BTEX concentrations were below the analytical method reporting limits (RL) and NMWQCC human health standards in all monitor wells on December 12, 2022.
- The chloride concentrations in samples from wells TMW-1 (358 mg/L) and TMW-2 (338 mg/L) exceeded the NMWQCC domestic water quality standard of 250 mg/L.

#### Apache proposes the following:

- Apache requests approval to reduce groundwater monitoring frequency from quarterly (4 time per year) to semi-annual (2 times per year) and submit reports to NMOCD after each semiannual monitoring event.
- Apache will provide at least a 7-day notice to NMOCD prior to each groundwater monitoring event.
- Apache will provide immediate notification to NMOCD if there's a significant change in analyte concentrations.

#### 2.0 INTRODUCTION

Larson & Associates, Inc. (LAI) has prepared this 2022 fourth (4<sup>th</sup>) quarter (October – December) groundwater monitoring report on behalf of Apache Corporation (Apache) for submittal to the New Mexico Oil Conservation Division (NMOCD) in Santa Fe and Hobbs, New Mexico. This report presents 2022 fourth (4<sup>th</sup>) quarter (December 12, 2022) laboratory analysis of groundwater samples from 3 monitoring wells (MW-2, TMW-1, and TMW-2) at the North Monument Grayburg San Andres Unit (NMS/SAU Well #2102 (Site) located in Unit O (SW/4, SE/4), Section 32, Township 19 South, Range 37 East, in Lea County, New Mexico. The geodetic position is North 32.61233° and West -103.27262°. Figure 1 presents a topographic map.

#### 2.1 Background

A crude oil and produced water release occurred on August 16, 2019, due to corrosion and failure of a buried 3-inch steel flowline. The failure allowed for an unknown volume of crude oil and produced water to be released. Approximately 2.5 barrels (bbls) of crude oil and produced water were recovered. The fluid pooled in the pasture south of the well pad and west of the lease road. Immediate notice was given to Mr. Dylan Rose-Cross (NMOCD) by Mr. Jeffery Broom (Apache Environmental Tech) via email on August 16, 2019. The surface ownership is private. The initial C-141 was submitted on August 29, 2019, and assigned remediation permit number of 1RP-5677. Appendix A presents the initial C-141.

On October 10, 2019, Apache applied for a variance to backfill the excavation due to the presence of groundwater between approximately 21 to 23 feet bgs with TPH and chloride concentrations remaining above the NMOCD limits in soil below the excavation at approximately 12 feet bgs. The request stated that Apache would backfill the excavation with clean caliche to about 6 feet bgs, install a 20-mil polyethylene synthetic liner, and complete backfilling with clean topsoil containing chloride less than 600 mg/Kg.

On October 16, 2019, NMOCD conditionally approved the variance request with the condition that Apache install two (2) monitor wells, with TMW-1 installed as close as possible to the source of the release and TMW-2 installed hydraulically down gradient approximately 150 feet southeast of the excavation. NMOCD requested one (1) monitor well be installed hydraulically upgradient to monitor background groundwater quality. Apache used an existing monitoring well (NMGSAU #1631, MW-2) located approximately 375 feet northwest for the up-gradient monitoring well.

On November 14, 2019, Apache backfilled the excavation with clean caliche to about 6 feet bgs prior to installing the 20-mil polyethylene synthetic liner and completed backfilling above the liner with clean topsoil to the surface. The backfilled area measures approximately 16,024 square feet and was seeded with BLM Mix #2.

On March 11, 2020, Scarborough Drilling, Inc. (SDI) under supervision from LAI installed the monitoring wells TMW-1 and TMW-2 utilizing an air rotary rig. The wells were drilled to depths of approximately 30 feet bgs. The wells were installed at the locations presented in Figure 3.

The wells were completed with 2-inch schedule 40 threaded PVC casing. Twenty (20) feet of 0.010-inch factory slotted screen was installed above and below the groundwater observed at the time of drilling. The well screen is surrounded with graded silica sand to about 2 feet above the well screen. The annular space above the sand was filled with bentonite chips to about 1-foot bgs. The wells were secured with locking steel protectors anchored in concrete. West Company, a State of New Mexico licensed professional land surveyor (License Number 23263) surveyed the monitoring wells for position and elevation including top of casing and natural ground surface. The wells were logged according to the Unified Soil Classification System (ASTM D 2487-06).

On December 21, 2020, LAI issued a report titled "1RP-5677 Closure Report North Monument G/SA Unit #2102 Produced Water and Crude Oil Release" documenting the excavation closure and monitoring well installations. The report was submitted to the NMOCD in Santa Fe and Hobbs, New Mexico. No response has been received from the NMOCD regarding this closure report and the release remains open on the NMOCD web portal. Appendix B presents the well logs and completion records.

#### 2.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,564 feet above mean sea level (msl).
- The topography slopes gently towards the southeast.
- There are no surface water features within 1,000 feet of the Site.
- Karst data provided by the USGS describes this site as "Low Risk Potential".
- The soils are designated Berino-Cacique fine sandy loams association, 0 to 3 percent slopes, consisting of 8 inches of fine sandy loam and 52 inches of sandy clay loam in descending order.
- The surface geology consists of Eolian and piedmont deposits (Holocene to middle Pleistocene) interlayered eolian sands and piedmont-slop deposits.
- Groundwater occurs in the Ogallala Formation between about 21 to 23 feet below ground surface (bgs) based on depth to groundwater from two (2) monitoring wells installed near the excavation.

Appendix C presents the Karst Potential Map

#### 3.0 GROUNDWATER MONITORING

#### 3.1 Depth to Groundwater and Groundwater Potentiometric Elevation

On December 12, 2022, LAI personnel gauged monitor wells MW-2, TMW-1, and TMW-2 for depth to groundwater. Groundwater was gauged at 13.81 (MW-2), 24.64 (TMW-1), and 26.53 (TMW-2) feet below top of casing (TOC). Groundwater potentiometric surface elevation ranged from 3,555.71 feet above mean sea level (MSL) at MW-2 (up gradient) to 3,537.94 feet above MSL at TMW-2 (down gradient). Groundwater flow was from northwest to southeast at a gradient of about 0.0266 ft/ft. No significant changes in groundwater flow direction or gradient was observed on December 12, 2022, compared to the previous monitoring event on August 15, 2022. Figure 4 presents the potentiometric surface map for December 12, 2022.

#### 3.2 Groundwater Samples and Laboratory Analysis

On December 12, 2022, LAI personnel collected groundwater samples from monitoring wells MW-2, TMW-1, and TMW-2 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 the discharge of the 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. Quality assurance and quality control (duplicate) samples were collected from MW-2. The samples were carefully transferred to laboratory containers that were labeled, packed in an ice filled chest affixed with custody seals, and delivered under chain of custody control to Xenco-Eurofins Laboratories (Xenco-Eurofins), a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory, located in Midland, Texas. Xenco-Eurofins analyzed the samples for benzene, toluene, ethylbenzene, xylene (BTEX) according to EPA SW-846 Method SW-8021B and chloride by EPA Method 300, respectively. Table 2 presents the laboratory analytical data summary. Appendix D presents the laboratory report.

#### 3.2.1 Organic Analysis

All BTEX values were below the SW-846 – 8021B analytical method reporting limits (RL) and NMWQCC human health standards. No data quality exceptions were noted in the Xenco case narratives. The results are consistent with the results from previous groundwater monitoring events. Figure 5 presents the benzene concentration in groundwater map.

#### 3.2.2 Inorganic Analysis

Chloride concentrations remain above the NMWQCC domestic water quality standard (250 mg/L) in samples collected from downgradient wells TMW-1 (358 mg/L) and TMW-2 (338 mg/L). The chloride concentration in well MW-2 (223 mg/L) is representative of the background chloride concentration and is below the NMWQCC domestic water quality standard (250 mg/L). The duplicate (QA/QC) sample (Dup-1) collected from MW-2 is within ten (10) percent (221 mg/L) of the original chloride value (223 mg/L) for

MW-2. No data quality exceptions were noted in the Xenco-Eurofins case narratives. Figure 6 presents the groundwater chloride concentration map. Figure 7 presents the chloride concentration control chart.

#### 4.0 CONCLUSIONS

The following observations are documented in this report:

- Monitoring well MW-2 remains hydraulically up gradient and representative of background chloride in groundwater.
- BTEX was reported below the analytical method RL and NMWQCC human health standards in wells MW-2, TMW-1, and TMW-2.
- Chloride exceeded the NMWQCC domestic water quality standard of 250 mg/L in samples collected from TMW-1 (358 mg/L) and TMW-2 (338 mg/L).
- Chloride concentrations remained below the NMWQCC domestic water quality standard of 250 mg/L in the sample collected from MW-2.

#### **6.0 RECOMMENDATIONS**

Apache proposes the following modifications to the groundwater monitoring program:

- Reduce frequency of groundwater monitoring from quarterly (4 times per year) to semi-annually (2 times per year) during 2023.
- Collect depth to groundwater and groundwater samples from all monitoring wells during each semiannual event
- Report the laboratory results to NMOCD in semi-annual reports, unless significant changes in analyte concentrations are detected, at which time Apache will immediately report the results to NMOCD.

Apache will provide notice to the NMOCD in Hobbs and Santa Fe, New Mexico, at least 7 working days prior to each monitoring event.

**Tables** 

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# Table 1 Monitor Well Completion and Gauging Summary Apache Corporation, NMGSAU 2102 Lea County, New Mexico

|          |                 |                          | Well       | l Information                | า                                   |                                  |        |                                    |  |  | Groundwa  | ter Data   |  |
|----------|-----------------|--------------------------|------------|------------------------------|-------------------------------------|----------------------------------|--------|------------------------------------|--|--|---|--|--|
| Well No. | Date<br>Drilled | Well Depth<br>(Feet TOC) | (Feet BGS) | Well<br>Diameter<br>(inches) | Surface<br>Elevation<br>(Feet AMSL) | Screen<br>Interval (Feet<br>BGS) | (Feet) | TOC<br>Elevation<br>(Feet<br>AMSL) | Date Gauged  | Depth to<br>Water<br>(feet TOC)  | Depth to<br>Water<br>(feet BGS)   | Water<br>Column<br>Height<br>(feet)                                  | Groundwater<br>Elevation<br>(feet AMSL)  |
| MW-2     | Unknown         | 62.91                    | 60.03      | 2                            | 3566.64                             | Unknown                          | 2.88   | 3,569.52                           | 03/12/2020<br>07/20/2020<br>10/01/2020<br>12/08/2020<br>03/10/2021<br>06/11/2021<br>10/12/2021<br>12/21/2021                             | 13.59<br>13.75<br>13.90<br>13.81<br>13.80<br>13.80<br>13.81<br>13.76                   | 10.71<br>10.87<br>11.02<br>10.93<br>10.92<br>10.92<br>10.93<br>10.88                  | 49.32<br>49.16<br>49.01<br>49.10<br>49.11<br>49.11<br>49.10<br>49.15 | 3,555.93<br>3,555.77<br>3,555.62<br>3,555.71<br>3,555.72<br>3,555.72<br>3,555.71<br>3,555.76 |
| TMW-1    | 3/11/2020       | 36.23                    | 33.33      | 2                            | 3561.92                             | 9.83 - 29.49                     | 2.90   | 3,564.82                           | 03/12/2020<br>07/20/2020<br>10/01/2020<br>12/08/2020<br>03/10/2021<br>06/11/2021<br>10/12/2021<br>12/21/2021<br>08/15/2022<br>12/12/2022 | 24.37<br>24.95<br>24.90<br>24.65<br>24.60<br>24.80<br>24.96<br>24.64<br>25.45<br>24.64 | 21.47<br>22.05<br>22.00<br>21.75<br>21.70<br>21.9<br>22.06<br>21.74<br>22.55<br>21.74 | 11.86<br>11.28<br>11.33<br>11.58<br>11.63<br>11.43<br>11.27<br>11.59 | 3,540.45<br>3,539.87<br>3,539.92<br>3,540.17<br>3,540.22<br>3,540.02<br>3,539.86<br>3,540.18 |
| TWM-2    | 3/11/2020       | 37.07                    | 34.03      | 2                            | 3561.43                             | 10.05 - 29.30                    | 3.04   | 3,564.47                           | 03/12/2020<br>07/20/2020<br>10/01/2020<br>12/08/2020<br>03/10/2021<br>06/11/2021<br>10/12/2021<br>12/21/2021                             | 26.38<br>26.70<br>26.70<br>26.51<br>26.40<br>26.57<br>26.72<br>26.49                   | 23.34<br>23.66<br>23.66<br>23.47<br>23.36<br>23.53<br>23.68<br>23.45                  | 10.69<br>10.37<br>10.37<br>10.56<br>10.67<br>10.50<br>10.35<br>10.58 | 3,538.09<br>3,537.77<br>3,537.77<br>3,537.96<br>3,538.07<br>3,537.90<br>3,537.75<br>3,537.98 |

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# Table 1 Monitor Well Completion and Gauging Summary Apache Corporation, NMGSAU 2102 Lea County, New Mexico

| I | Well Information |                 |                          |       |                              |                                     |                                  |                             |                                    |                          | Groundwater Data                |                                 |                                     |   |  |
|---|------------------|-----------------|--------------------------|-------|------------------------------|-------------------------------------|----------------------------------|-----------------------------|------------------------------------|--------------------------|---------------------------------|---------------------------------|-------------------------------------|---|--|
|   | Well No.         | Date<br>Drilled | Well Depth<br>(Feet TOC) | Denth | Well<br>Diameter<br>(inches) | Surface<br>Elevation<br>(Feet AMSL) | Screen<br>Interval (Feet<br>BGS) | Casing<br>Stickup<br>(Feet) | TOC<br>Elevation<br>(Feet<br>AMSL) | Date Gauged              | Depth to<br>Water<br>(feet TOC) | Depth to<br>Water<br>(feet BGS) | Water<br>Column<br>Height<br>(feet) | Groundwater<br>Elevation<br>(feet AMSL) |  |
|   |                  |                 |                          |       |                              |                                     |                                  |                             |                                    | 08/15/2022<br>12/12/2022 | 27.01<br>26.53                  | 23.97<br>23.49                  | 10.06<br>10.54                      | 3,537.46<br>3,537.94                    |  |

Notes: MW-2 is hydraulically upgradient. TMW-1 is near release source. TMW-2 is hydraulically down gradient.

bgs: below ground surface

TOC: top of casing

AMSL: elevation above mean sea level

Table 2
Groundwater Sample Analytical Data Summary
Apache Corporation, NMGSAU 2102
Lea County, New Mexico

| Sample         | Collection | Benzene   | Toluene          | Ethylbenzene | Xylenes   | Chloride |
|----------------|------------|-----------|------------------|--------------|-----------|----------|
|                | Date       | (mg/L)    | (mg/L)           | (mg/L)       | (mg/L)    | (mg/L)   |
| WQCC Standard: |            | *0.005    | * 1              | *0.7         | *0.62     | **250    |
| MW-2           | 03/12/2020 | <0.00100  | <0.00100         | <0.00100     | <0.00300  | 230      |
|                | 07/20/2020 | <0.00200  | <0.00200         | <0.00200     | <0.00600  | 231      |
|                | 10/01/2020 | < 0.00200 | <0.00200         | <0.00200     | < 0.00200 | 241      |
|                | 12/08/2020 | <0.00200  | <0.00200         | <0.00200     | <0.00200  | 227      |
|                | 03/10/2021 | <0.00200  | <0.00200         | <0.00200     | <0.00200  | 235      |
|                | 06/11/2021 | <0.00200  | <0.00200         | <0.00200     | < 0.00400 | 212      |
|                | 10/12/2021 | <0.00200  | <0.00200         | <0.00200     | <0.00400  | 207      |
|                | 12/21/2021 | <0.00200  | <0.00200         | <0.00200     | <0.00400  | 222      |
|                | 08/15/2022 | <0.00200  | <0.00200         | <0.00200     | <0.00400  | 232      |
|                | 12/12/2022 | <0.00200  | <0.00200         | <0.00200     | <0.00400  | 223      |
| ΓMW-1          | 03/12/2020 | <0.00100  | <0.00100         | <0.00100     | <0.00300  | 360      |
|                | 07/20/2020 | <0.00200  | <0.00200         | <0.00200     | <0.00600  | 432      |
|                | 10/01/2020 | <0.00200  | <0.00200         | <0.00200     | <0.00200  | 452      |
|                | 12/12/2022 | <0.00200  | <0.00200         | <0.00200     | <0.00200  | 449      |
|                | 03/10/2021 | <0.00200  | <0.00200         | <0.00200     | <0.00200  | 418      |
|                | 06/11/2021 | <0.00200  | <0.00200         | <0.00200     | < 0.00400 | 361      |
|                | 10/12/2021 | < 0.00200 | <0.00200         | <0.00200     | < 0.00400 | 291      |
|                | 12/21/2021 | <0.00200  | <0.00200         | <0.00200     | <0.00400  | 406      |
|                | 08/15/2022 | <0.00200  | <0.00200         | <0.00200     | <0.00400  | 306      |
|                | 12/12/2022 | <0.00200  | <0.00200         | <0.00200     | <0.00400  | 358      |
| ΓMW-2          | 03/12/2020 | <0.00100  | <0.00100         | <0.00100     | <0.00300  | 423      |
|                | 07/20/2020 | <0.00200  | <0.00200         | <0.00200     | <0.00600  | 664      |
|                | 10/01/2020 | <0.00200  | <0.00200         | <0.00200     | <0.00200  | 591      |
|                | 12/08/2020 | <0.00200  | <0.00200         | <0.00200     | <0.00200  | 473      |
|                | 03/10/2021 | <0.00200  | <0.00200         | <0.00200     | <0.00200  | 428      |
|                | 06/11/2021 | <0.00200  | <0.00200         | <0.00200     | <0.00400  | 402      |
|                | 10/12/2021 | <0.00200  | <0.00200         | <0.00200     | <0.00400  | 325      |
|                | 12/21/2021 | <0.00200  | <0.00200         | <0.00200     | <0.00400  | 388      |
|                | 08/15/2022 | <0.00200  | <0.00200         | <0.00200     | <0.00400  | 362      |
|                | 12/12/2022 | <0.00200  | <0.00200         | <0.00200     | <0.00400  | 338      |
|                |            | QA/Q      | C (Duplicate) Sa | ımples       |           |          |
| OUP-1 (MW-2)   | 03/12/2020 | <0.00100  | <0.00100         | <0.00100     | <0.00300  | 223      |

Table 2
Groundwater Sample Analytical Data Summary
Apache Corporation, NMGSAU 2102
Lea County, New Mexico

| DUP-1 (MW-2) | 07/20/2020 | <0.00200 | <0.00200 | <0.00200 | <0.00600 | 242 |
|--------------|------------|----------|----------|----------|----------|-----|
| DUP-1 (MW-2) | 10/01/2020 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 245 |
| DUP-1 (MW-2) | 12/08/2020 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 226 |
|              |            |          |          |          |          |     |
| DUP-1 (MW-2) | 03/10/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 237 |
| DUP-1 (MW-2) | 06/11/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | 213 |
| DUP-1 (MW-2) | 10/12/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | 305 |
| DUP-1 (MW-2) | 12/21/2021 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | 226 |
|              |            |          |          |          |          |     |
| DUP-1 (MW-2) | 08/15/2022 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | 254 |
| DUP-1 (MW-2) | 12/12/2022 | <0.00200 | <0.00200 | <0.00200 | <0.00400 | 221 |
|              |            |          |          |          |          |     |

#### Notes:

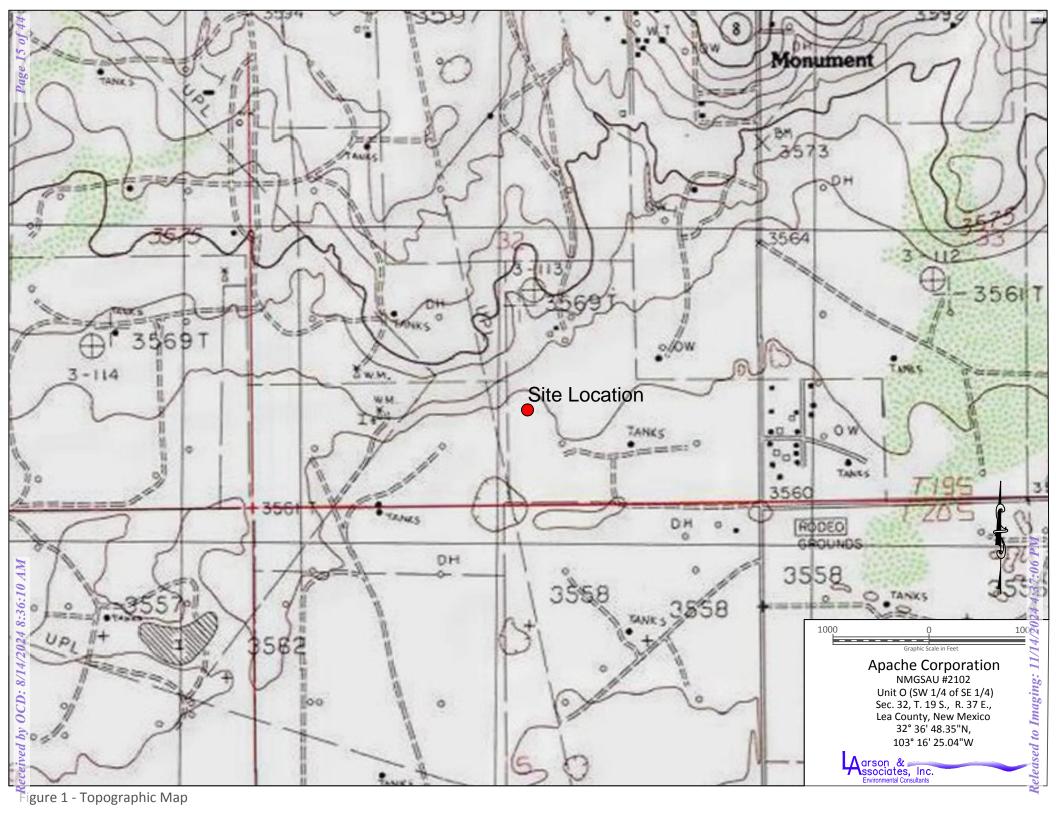
analysis performed by Xenco Laboratories, Midland, Texas by EPA SW-846 Method 8021B (BTEX) and Method 300 (chloride)

All values reported in milligrams per liter (mg/L) equivalent to parts per million (ppm)

- < values denotes concentration is less than method reporting limit (RL).
- \* NMWQCC human health standard
- \*\* NMWQCC domestic water quality standard

BGS - below ground surface

**Figures** 



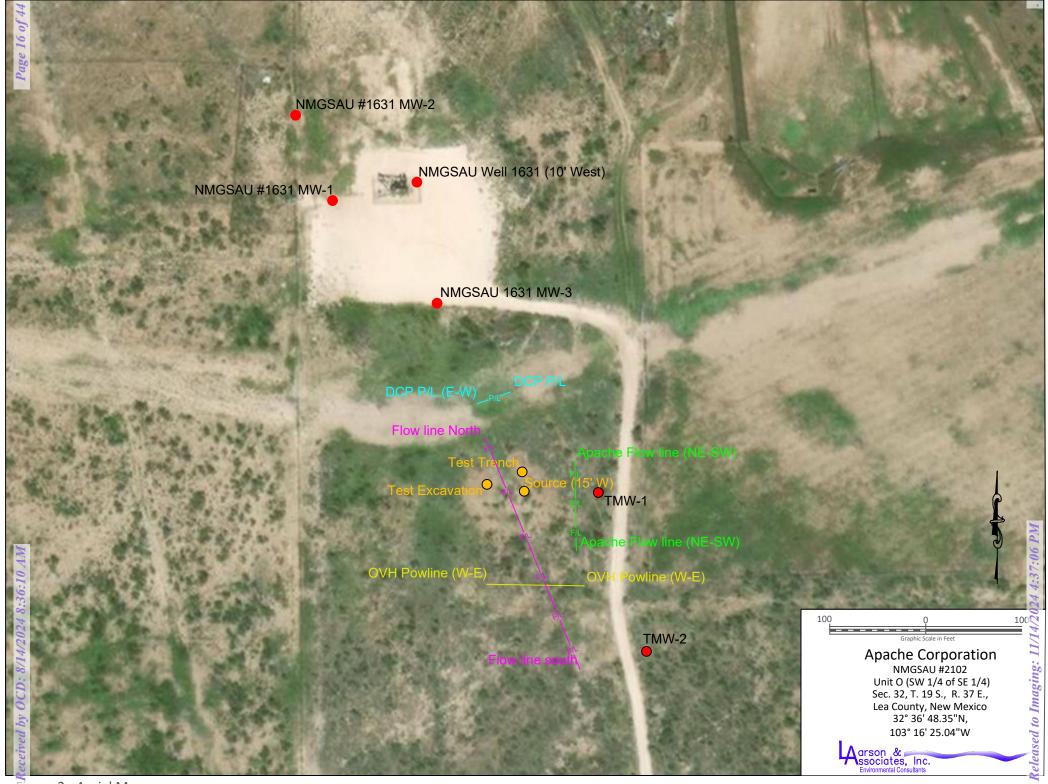


Figure 2 - Aerial Map

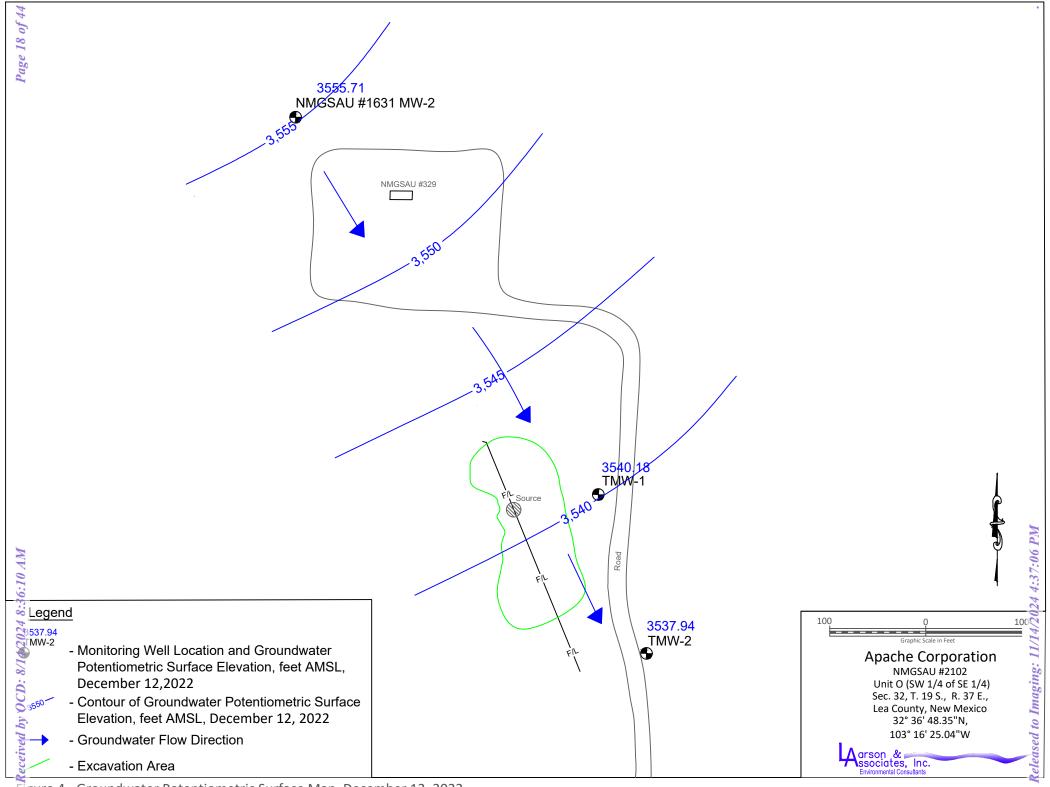


Figure 4 - Groundwater Potentiometric Surface Map, December 12, 2022

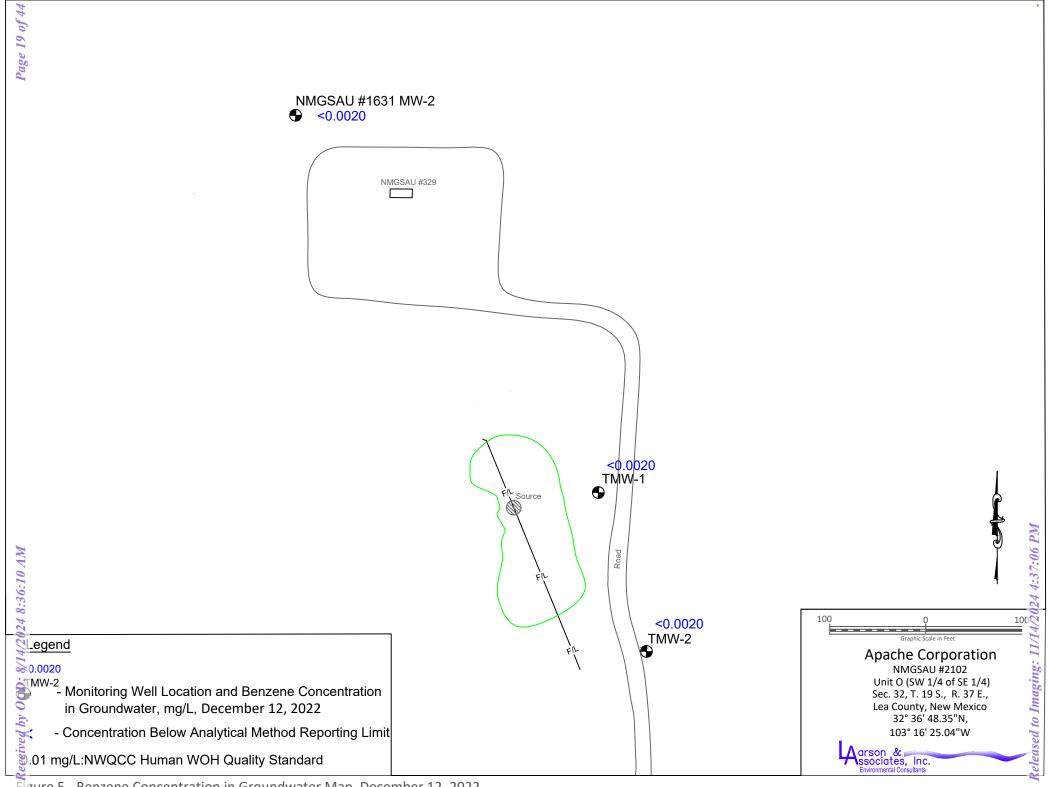


Figure 5 - Benzene Concentration in Groundwater Map, December 12, 2022

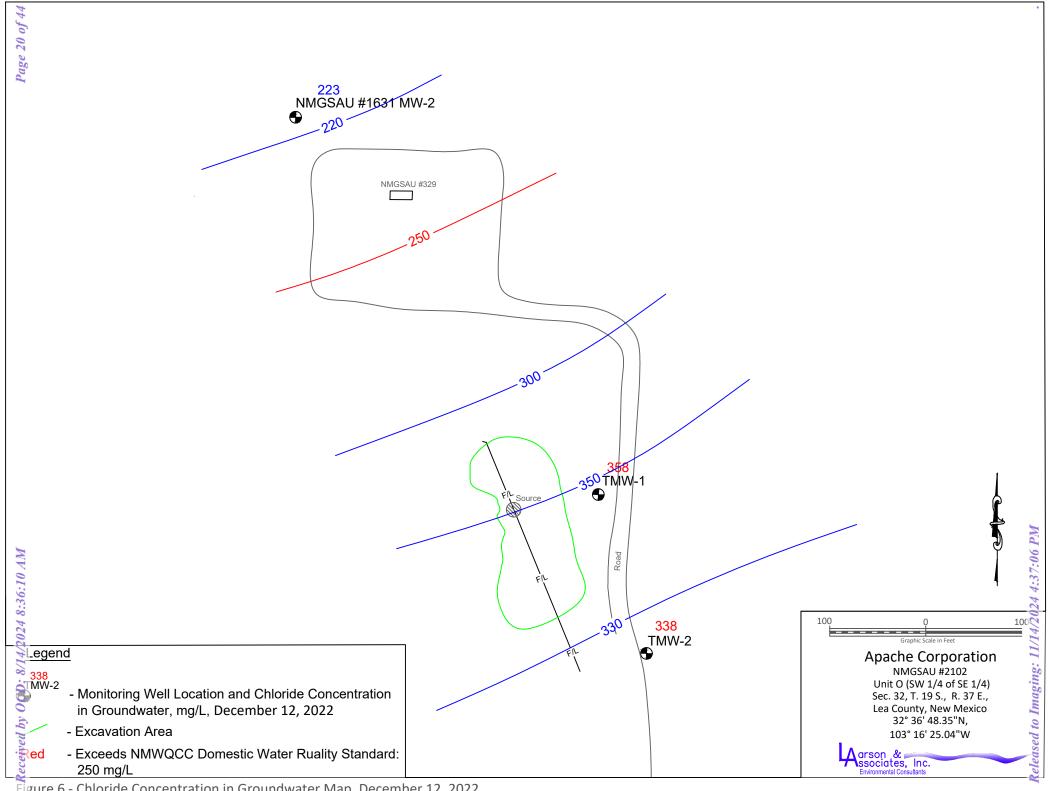
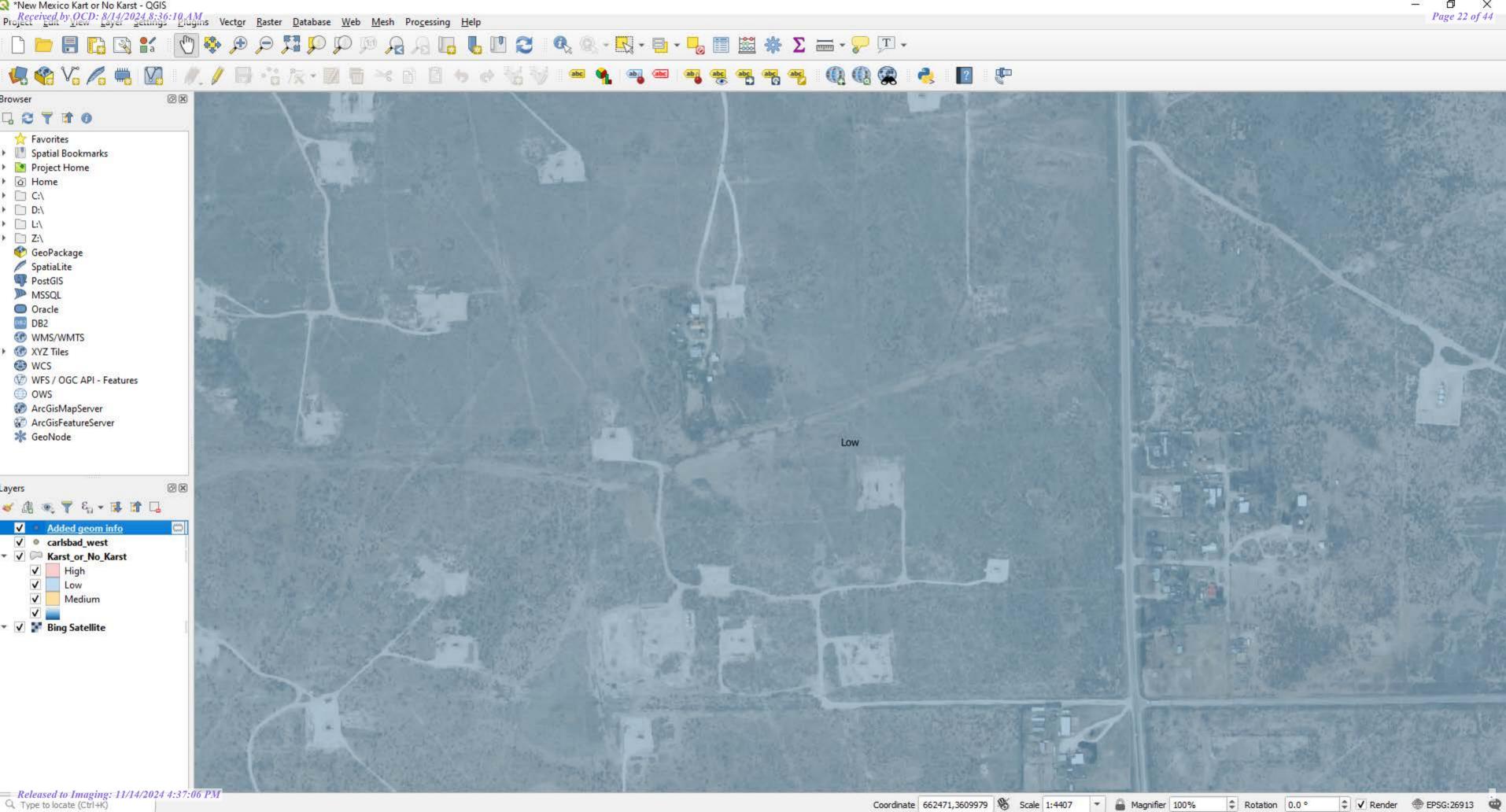


Figure 6 - Chloride Concentration in Groundwater Map, December 12, 2022

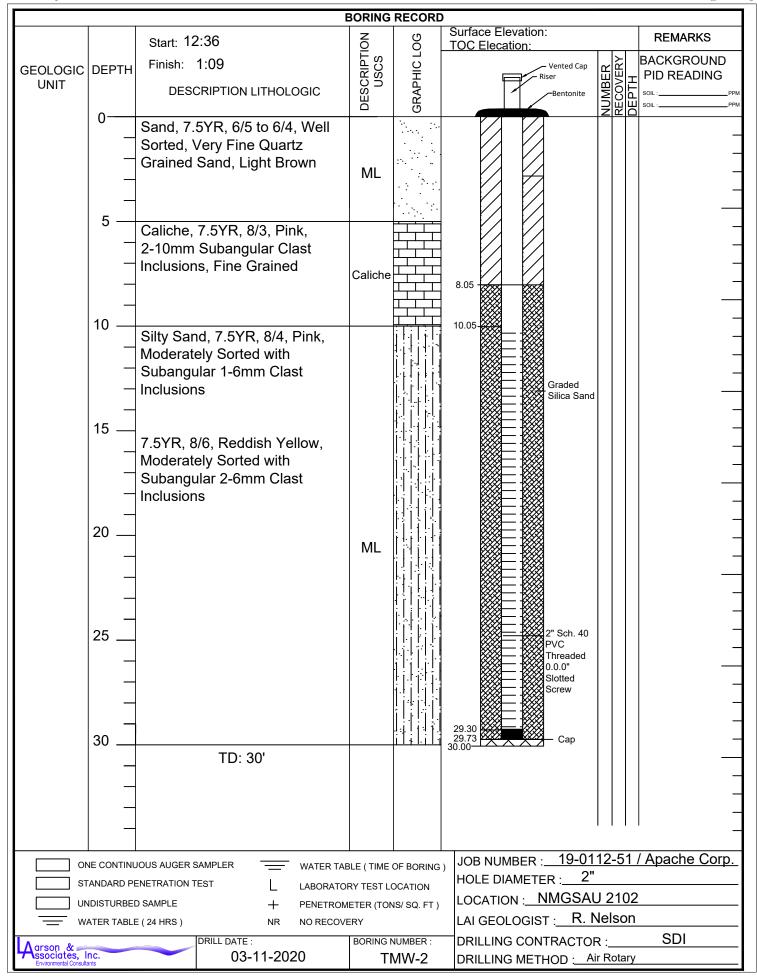
# Appendix A Karst Risk Potential Map



**Appendix B** 

**Boring Logs** 

|                        |                                 |  |   | E                            | BORING              | RECORD           |   |                   |   |
|------------------------|---------------------------------|--|---|------------------------------|---------------------|------------------|---|-------------------|---|
| GEOLOGIC<br>UNIT       | DEPTH                           | Start: 10<br>Finish: 1                                   |   | DLOGIC                       | DESCRIPTION<br>USCS | SRAPHIC LOG      | Surface Elevation: TOC Elecation:  Vented Cap Riser  Bentonite                  | RECOVERY<br>DEPTH | REMARKS BACKGROUND PID READING SOIL:PPA |
|                        | 0                               | Sorted, \  | 5YR, 6/5 to 6<br>/ery Fine Gra<br>and, Light Br | ained                        | ML                  | GF               |   | N RE              | SOIL :PPI                               |
|                        | 5 —<br>—<br>—<br>—<br>—<br>10 — | 2-10mm   | 7.5YR, 8/3, F<br>Subangular (<br>s, Fine Grain  | Clast                        | Caliche             |                  | 7.83  |                   | -<br>-                                  |
|                        | 15 —                            | Moderate<br>Subangu<br>Inclusion<br>7.5YR, 8<br>Moderate | /6, Reddish \<br>ely Sorted wit<br>llar 2-6mm C | th<br>last<br>Yellow,<br>th  |                     |                  | Graded Silica Sand  |                   | -<br>-<br>-<br>-<br>-<br>-              |
|                        |                                 |  |   |                              | ML                  |                  | 2" Sch. 40<br>PVC<br>Threaded<br>0.0.0"<br>Slotted<br>Screw                     |                   | _                                       |
|                        |                                 |  | TD: 30'   |                              |                     |                  | 30.00   |                   |   |
| ST.                    | ANDARD PE                       | OUS AUGER SENETRATION TO SAMPLE                          |   | LABORATOR PENETROM NO RECOVE | RY TEST LO          | OCATION          | JOB NUMBER : 19-0112 HOLE DIAMETER : 2" LOCATION : NMGSAU LAI GEOLOGIST : R. Ne | 2102              | !                                       |
| Agrson & Ssociates, II | nts                             |  | DRILL DATE :<br>03-11-2                         | 2020                         |                     | NUMBER :<br>MW-1 | DRILLING CONTRACTOR : DRILLING METHOD : Air F                                   |                   | SDI                                     |



Appendix C
Laboratory Reports

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Mr. Mark J Larson Larson & Associates, Inc. 507 N Marienfeld Suite 202 Midland, Texas 79701

Generated 12/23/2022 9:48:46 PM

**JOB DESCRIPTION** 

NMGSAU 2102 SDG NUMBER 19-0112-51

**JOB NUMBER** 

880-22622-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

# **Eurofins Midland**

## **Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

# **Authorization**

Generated 12/23/2022 9:48:46 PM

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

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Client: Larson & Associates, Inc.

Project/Site: NMGSAU 2102

Laborate

Laboratory Job ID: 880-22622-1 SDG: 19-0112-51

# **Table of Contents**

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#### **Definitions/Glossary**

Client: Larson & Associates, Inc.

Project/Site: NMGSAU 2102

Job ID: 880-22622-1

SDG: 19-0112-51

2-51

#### **Qualifiers**

#### **GC VOA**

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

#### Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report.                |
|--------------|--|
| n            | Listed under the "D" column to designate that the result is reported on a dry weight basis |

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present
PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

**Eurofins Midland** 

#### **Case Narrative**

Client: Larson & Associates, Inc.

Project/Site: NMGSAU 2102

Job ID: 880-22622-1

SDG: 19-0112-51

Job ID: 880-22622-1

**Laboratory: Eurofins Midland** 

Narrative

Job Narrative 880-22622-1

#### Receipt

The samples were received on 12/13/2022 9:28 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was  $5.3^{\circ}$ C

#### GC VOA

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

#### HPLC/IC

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

61 OJ 44

Eurofins Midland 12/23/2022

Job ID: 880-22622-1

Client: Larson & Associates, Inc. Project/Site: NMGSAU 2102 SDG: 19-0112-51

Client Sample ID: MW-2 Lab Sample ID: 880-22622-1

Date Collected: 12/12/22 09:53 Matrix: Water

| Method: SW846 8021B - Volati | ile Organic Comp  | ounds (GC) |          |      |   |          |                |         |
|------------------------------|-------------------|------------|----------|------|---|----------|----------------|---------|
| Analyte                      | Result            | Qualifier  | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
| Benzene                      | <0.00200          | U          | 0.00200  | mg/L |   |          | 12/23/22 08:02 | 1       |
| Toluene                      | <0.00200          | U          | 0.00200  | mg/L |   |          | 12/23/22 08:02 | 1       |
| Ethylbenzene                 | <0.00200          | U          | 0.00200  | mg/L |   |          | 12/23/22 08:02 | 1       |
| m,p-Xylenes                  | <0.00400          | U          | 0.00400  | mg/L |   |          | 12/23/22 08:02 | 1       |
| o-Xylene                     | <0.00200          | U          | 0.00200  | mg/L |   |          | 12/23/22 08:02 | 1       |
| Xylenes, Total               | <0.00400          | U          | 0.00400  | mg/L |   |          | 12/23/22 08:02 | 1       |
| Surrogate                    | %Recovery         | Qualifier  | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)  | 92                |            | 70 - 130 |      | - |          | 12/23/22 08:02 | 1       |
| 1,4-Difluorobenzene (Surr)   | 105               |            | 70 - 130 |      |   |          | 12/23/22 08:02 | 1       |
| Method: TAL SOP Total BTEX   | - Total BTEX Cald | culation   |          |      |   |          |                |         |
| Analyte                      | Result            | Qualifier  | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
| Total BTEX                   | <0.00400          | U          | 0.00400  | mg/L |   |          | 12/23/22 17:06 | 1       |
| Method: MCAWW 300.0 - Anio   | ns, Ion Chromato  | graphy     |          |      |   |          |                |         |
| Analyte                      | Result            | Qualifier  | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
| Chloride                     | 223               |            | 2.50     | mg/L |   |          | 12/17/22 00:11 | 5       |

Date Collected: 12/12/22 10:47 **Matrix: Water** Date Received: 12/13/22 09:28

| Analyte                         | Result            | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                         | <0.00200          | U         | 0.00200  | mg/L |   |          | 12/23/22 08:23 | 1       |
| Toluene                         | <0.00200          | U         | 0.00200  | mg/L |   |          | 12/23/22 08:23 | 1       |
| Ethylbenzene                    | <0.00200          | U         | 0.00200  | mg/L |   |          | 12/23/22 08:23 | 1       |
| m,p-Xylenes                     | <0.00400          | U         | 0.00400  | mg/L |   |          | 12/23/22 08:23 | 1       |
| o-Xylene                        | <0.00200          | U         | 0.00200  | mg/L |   |          | 12/23/22 08:23 | 1       |
| Xylenes, Total                  | <0.00400          | U         | 0.00400  | mg/L |   |          | 12/23/22 08:23 | 1       |
| Surrogate                       | %Recovery         | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)     | 93                |           | 70 - 130 |      | - |          | 12/23/22 08:23 | 1       |
| 1,4-Difluorobenzene (Surr)      | 110               |           | 70 - 130 |      |   |          | 12/23/22 08:23 | 1       |
| -<br>Method: TAL SOP Total BTEX | - Total BTEX Cald | culation  |          |      |   |          |                |         |
| Analyte                         | Result            | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
| Total BTEX                      | <0.00400          | U         | 0.00400  | mg/L |   |          | 12/23/22 17:06 | 1       |

5.00 12/17/22 00:18 mg/L Chloride 358 Client Sample ID: TMW-2 Lab Sample ID: 880-22622-3

RL

Unit

D

Prepared

Date Collected: 12/12/22 10:57 Date Received: 12/13/22 09:28

Analyte

| Method: SW846 8021B - Volatile O | rganic Comp | ounds (GC) |         |      |   |          |                |         |
|----------------------------------|-------------|------------|---------|------|---|----------|----------------|---------|
| Analyte                          | Result      | Qualifier  | RL      | Unit | D | Prepared | Analyzed       | Dil Fac |
| Benzene                          | <0.00200    | U          | 0.00200 | mg/L |   |          | 12/23/22 08:43 | 1       |
| Toluene                          | <0.00200    | U          | 0.00200 | mg/L |   |          | 12/23/22 08:43 | 1       |

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**Matrix: Water** 

Analyzed

Dil Fac

Result Qualifier

# **Client Sample Results**

Client: Larson & Associates, Inc. Project/Site: NMGSAU 2102

Job ID: 880-22622-1

SDG: 19-0112-51

**Client Sample ID: TMW-2** 

Lab Sample ID: 880-22622-3

Date Collected: 12/12/22 10:57 Date Received: 12/13/22 09:28

**Client Sample ID: Dup-1** 

Matrix: Water

| Analyte                               | Result            | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|-------------------|-----------|----------|------|---|----------|----------------|---------|
| Ethylbenzene                          | <0.00200          | U         | 0.00200  | mg/L |   |          | 12/23/22 08:43 | 1       |
| m,p-Xylenes                           | <0.00400          | U         | 0.00400  | mg/L |   |          | 12/23/22 08:43 | 1       |
| o-Xylene                              | <0.00200          | U         | 0.00200  | mg/L |   |          | 12/23/22 08:43 | 1       |
| Xylenes, Total                        | <0.00400          | U         | 0.00400  | mg/L |   |          | 12/23/22 08:43 | 1       |
| Surrogate                             | %Recovery         | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)           | 90                |           | 70 - 130 |      | - |          | 12/23/22 08:43 | 1       |
| 1,4-Difluorobenzene (Surr)            | 106               |           | 70 - 130 |      |   |          | 12/23/22 08:43 | 1       |
| Method: TAL SOP Total BTEX            | - Total BTEX Cale | culation  |          |      |   |          |                |         |
| Analyte                               | Result            | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
| Total BTEX                            | <0.00400          | U         | 0.00400  | mg/L |   |          | 12/23/22 17:06 | 1       |
| _                                     |                   | varanhy   |          |      |   |          |                |         |
| Method: MCAWW 300.0 - Anic            | ons, Ion Chromato | ygrapny   |          |      |   |          |                |         |
| Method: MCAWW 300.0 - Anic<br>Analyte | •                 | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |

Lab Sample ID: 880-22622-4

**Matrix: Water** 

Date Collected: 12/12/22 00:00 Date Received: 12/13/22 09:28

| Analyte                     | Result            | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-------------------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                     | <0.00200          | U         | 0.00200  | mg/L |   |          | 12/23/22 09:04 | 1       |
| Toluene                     | <0.00200          | U         | 0.00200  | mg/L |   |          | 12/23/22 09:04 | 1       |
| Ethylbenzene                | <0.00200          | U         | 0.00200  | mg/L |   |          | 12/23/22 09:04 | 1       |
| m,p-Xylenes                 | <0.00400          | U         | 0.00400  | mg/L |   |          | 12/23/22 09:04 | 1       |
| o-Xylene                    | <0.00200          | U         | 0.00200  | mg/L |   |          | 12/23/22 09:04 | 1       |
| Xylenes, Total              | <0.00400          | U         | 0.00400  | mg/L |   |          | 12/23/22 09:04 | 1       |
| Surrogate                   | %Recovery         | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 91                |           | 70 - 130 |      | - |          | 12/23/22 09:04 | 1       |
| 1,4-Difluorobenzene (Surr)  | 108               |           | 70 - 130 |      |   |          | 12/23/22 09:04 | 1       |
| Method: TAL SOP Total BTEX  | - Total BTEX Cald | culation  |          |      |   |          |                |         |
| Analyte                     | Result            | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
| Total BTEX                  | <0.00400          | U         | 0.00400  | mg/L |   |          | 12/23/22 17:06 | 1       |
| Method: MCAWW 300.0 - Anio  | ons, Ion Chromato | graphy    |          |      |   |          |                |         |
| Analyte                     | Result            | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|                             |                   |           |          |      |   |          |                |         |

## **Surrogate Summary**

Client: Larson & Associates, Inc.

Project/Site: NMGSAU 2102

Job ID: 880-22622-1

SDG: 19-0112-51

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water Prep Type: Total/NA

|                   |                        | BFB1     | DFBZ1    |  |
|-------------------|------------------------|----------|----------|--|
| Lab Sample ID     | Client Sample ID       | (70-130) | (70-130) |  |
| 880-22622-1       | MW-2                   | 92       | 105      |  |
| 880-22622-2       | TMW-1                  | 93       | 110      |  |
| 880-22622-3       | TMW-2                  | 90       | 106      |  |
| 880-22622-4       | Dup-1                  | 91       | 108      |  |
| _CS 880-42368/96  | Lab Control Sample     | 86       | 110      |  |
| LCSD 880-42368/97 | Lab Control Sample Dup | 87       | 110      |  |
| MB 880-42368/101  | Method Blank           | 82       | 105      |  |
| MB 880-42379/5-A  | Method Blank           | 85       | 105      |  |

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BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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#### **QC Sample Results**

Client: Larson & Associates, Inc. Job ID: 880-22622-1 SDG: 19-0112-51 Project/Site: NMGSAU 2102

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42368/101

**Matrix: Water** Analysis Batch: 42368 Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB

| Analyte        | Result   | Qualifier | RL      | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|----------|-----------|---------|------|---|----------|----------------|---------|
| Benzene        | <0.00200 | U         | 0.00200 | mg/L |   |          | 12/23/22 00:36 | 1       |
| Toluene        | <0.00200 | U         | 0.00200 | mg/L |   |          | 12/23/22 00:36 | 1       |
| Ethylbenzene   | <0.00200 | U         | 0.00200 | mg/L |   |          | 12/23/22 00:36 | 1       |
| m,p-Xylenes    | <0.00400 | U         | 0.00400 | mg/L |   |          | 12/23/22 00:36 | 1       |
| o-Xylene       | <0.00200 | U         | 0.00200 | mg/L |   |          | 12/23/22 00:36 | 1       |
| Xylenes, Total | <0.00400 | U         | 0.00400 | mg/L |   |          | 12/23/22 00:36 | 1       |

MB MB

| Surrogate                   | %Recovery Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|---------------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 82                  | 70 - 130 |          | 12/23/22 00:36 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105                 | 70 - 130 |          | 12/23/22 00:36 | 1       |

Lab Sample ID: LCS 880-42368/96

**Matrix: Water** 

Analysis Batch: 42368

Analyte

Benzene

Toluene

Ethylbenzene

m,p-Xylenes

o-Xylene

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

LCS LCS %Rec Spike Added Result Qualifier Unit %Rec Limits 0.100 0.1262 mg/L 126 70 - 130 0.100 0.1009 mg/L 101 70 - 130 0.100 0.09059 mg/L 91 70 - 130 0.200 0.1776 70 - 130 mg/L 89 0.100 0.08490 70 - 130 mg/L

LCS LCS

| Surrogate                   | %Recovery | Qualifier | Limits   |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 86        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 110       |           | 70 - 130 |

Lab Sample ID: LCSD 880-42368/97

**Matrix: Water** 

Analysis Batch: 42368

| <b>Client Sample ID</b> | Lab Control Sample Dup |
|-------------------------|------------------------|
|                         | Drop Type, Total/NA    |

Prep Type: Total/NA

|              | Spike | LCSD    | LCSD      |      |   |      | %Rec     |     | RPD   |  |
|--------------|-------|---------|-----------|------|---|------|----------|-----|-------|--|
| Analyte      | Added | Result  | Qualifier | Unit | D | %Rec | Limits   | RPD | Limit |  |
| Benzene      | 0.100 | 0.1208  |           | mg/L |   | 121  | 70 - 130 | 4   | 20    |  |
| Toluene      | 0.100 | 0.09653 |           | mg/L |   | 97   | 70 - 130 | 4   | 20    |  |
| Ethylbenzene | 0.100 | 0.08804 |           | mg/L |   | 88   | 70 - 130 | 3   | 20    |  |
| m,p-Xylenes  | 0.200 | 0.1730  |           | mg/L |   | 87   | 70 - 130 | 3   | 20    |  |
| o-Xylene     | 0.100 | 0.08259 |           | mg/L |   | 83   | 70 - 130 | 3   | 20    |  |

LCSD LCSD

| Surrogate                   | %Recovery | Qualifier | Limits   |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 87        |           | 70 - 130 |
| 1 4-Difluorobenzene (Surr)  | 110       |           | 70 - 130 |

Lab Sample ID: MB 880-42379/5-A

**Matrix: Water** 

Analysis Batch: 42368

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

Prep Batch: 42379

|         | 1110      | IVID      |         |      |   |                |                |         |
|---------|-----------|-----------|---------|------|---|----------------|----------------|---------|
| Analyte | Result    | Qualifier | RL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
| Benzene | <0.00200  | U         | 0.00200 | mg/L |   | 12/21/22 09:42 | 12/22/22 12:23 | 1       |
| Toluene | < 0.00200 | U         | 0.00200 | mg/L |   | 12/21/22 09:42 | 12/22/22 12:23 | 1       |

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#### QC Sample Results

Job ID: 880-22622-1 Client: Larson & Associates, Inc. Project/Site: NMGSAU 2102 SDG: 19-0112-51

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

85

105

Lab Sample ID: MB 880-42379/5-A **Matrix: Water** 

Analysis Batch: 42368

Client Sample ID: Method Blank

12/22/22 12:23

Client Sample ID: Method Blank

Prep Type: Total/NA

12/21/22 09:42

Prep Type: Total/NA

Prep Batch: 42379

|                | мв        | MB        |         |      |   |                |                |         |
|----------------|-----------|-----------|---------|------|---|----------------|----------------|---------|
| Analyte        | Result    | Qualifier | RL      | Unit | D | Prepared       | Analyzed       | Dil Fac |
| Ethylbenzene   | <0.00200  | U         | 0.00200 | mg/L |   | 12/21/22 09:42 | 12/22/22 12:23 | 1       |
| m,p-Xylenes    | <0.00400  | U         | 0.00400 | mg/L |   | 12/21/22 09:42 | 12/22/22 12:23 | 1       |
| o-Xylene       | <0.00200  | U         | 0.00200 | mg/L |   | 12/21/22 09:42 | 12/22/22 12:23 | 1       |
| Xylenes, Total | <0.00400  | U         | 0.00400 | mg/L |   | 12/21/22 09:42 | 12/22/22 12:23 | 1       |
|                | МВ        | MB        |         |      |   |                |                |         |
| Surrogate      | %Recovery | Qualifier | Limits  |      |   | Prepared       | Analyzed       | Dil Fac |

70 - 130

70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-42064/3

**Matrix: Water** 

Analysis Batch: 42064

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

MB MB

| Analyte  | Result ( | Qualifier | RL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|----------|-----------|-------|------|---|----------|----------------|---------|
| Chloride | <0.500   | U         | 0.500 | mg/L |   |          | 12/16/22 22:45 | 1       |

Lab Sample ID: LCS 880-42064/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 42064

|   | -        | Spike | LCS LCS    |             |   |      | %Rec     |
|---|----------|-------|------------|-------------|---|------|----------|
|   | Analyte  | Added | Result Qua | lifier Unit | D | %Rec | Limits   |
| ı | Chloride | 25.0  | 25.03      | ma/l        |   | 100  | 90 - 110 |

Lab Sample ID: LCSD 880-42064/5 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 42064

RPD Spike LCSD LCSD %Rec Analyte Added Result Qualifier Unit %Rec Limit Chloride 25.0 25.11 100 90 - 110 20 mg/L

**Eurofins Midland** 

# **QC Association Summary**

Client: Larson & Associates, Inc.

Project/Site: NMGSAU 2102

Job ID: 880-22622-1

SDG: 19-0112-51

#### **GC VOA**

#### Analysis Batch: 42368

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-22622-1       | MW-2                   | Total/NA  | Water  | 8021B  |            |
| 880-22622-2       | TMW-1                  | Total/NA  | Water  | 8021B  |            |
| 880-22622-3       | TMW-2                  | Total/NA  | Water  | 8021B  |            |
| 880-22622-4       | Dup-1                  | Total/NA  | Water  | 8021B  |            |
| MB 880-42368/101  | Method Blank           | Total/NA  | Water  | 8021B  |            |
| MB 880-42379/5-A  | Method Blank           | Total/NA  | Water  | 8021B  | 42379      |
| LCS 880-42368/96  | Lab Control Sample     | Total/NA  | Water  | 8021B  |            |
| LCSD 880-42368/97 | Lab Control Sample Dup | Total/NA  | Water  | 8021B  |            |

#### Prep Batch: 42379

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-42379/5-A | Method Blank     | Total/NA  | Water  | 5035   |            |

#### Analysis Batch: 42573

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-22622-1   | MW-2             | Total/NA  | Water  | Total BTEX |            |
| 880-22622-2   | TMW-1            | Total/NA  | Water  | Total BTEX |            |
| 880-22622-3   | TMW-2            | Total/NA  | Water  | Total BTEX |            |
| 880-22622-4   | Dup-1            | Total/NA  | Water  | Total BTEX |            |

#### **HPLC/IC**

#### Analysis Batch: 42064

| Lab Sample ID    | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------------|-----------|--------|--------|------------|
| 880-22622-1      | MW-2                   | Total/NA  | Water  | 300.0  |            |
| 880-22622-2      | TMW-1                  | Total/NA  | Water  | 300.0  |            |
| 880-22622-3      | TMW-2                  | Total/NA  | Water  | 300.0  |            |
| 880-22622-4      | Dup-1                  | Total/NA  | Water  | 300.0  |            |
| MB 880-42064/3   | Method Blank           | Total/NA  | Water  | 300.0  |            |
| LCS 880-42064/4  | Lab Control Sample     | Total/NA  | Water  | 300.0  |            |
| LCSD 880-42064/5 | Lab Control Sample Dup | Total/NA  | Water  | 300.0  |            |

**Eurofins Midland** 

Client: Larson & Associates, Inc. Project/Site: NMGSAU 2102

Lab Sample ID: 880-22622-1

**Matrix: Water** 

**Client Sample ID: MW-2** 

Date Collected: 12/12/22 09:53 Date Received: 12/13/22 09:28

|           | Batch    | Batch      |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method     | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8021B      |     | 1      | 5 mL    | 5 mL   | 42368  | 12/23/22 08:02 | SM      | EET MID |
| Total/NA  | Analysis | Total BTEX |     | 1      |         |        | 42573  | 12/23/22 17:06 | AJ      | EET MID |
| Total/NA  | Analysis | 300.0      |     | 5      | 50 mL   | 50 mL  | 42064  | 12/17/22 00:11 | СН      | EET MID |

Client Sample ID: TMW-1 Lab Sample ID: 880-22622-2

Date Collected: 12/12/22 10:47 **Matrix: Water** 

Date Received: 12/13/22 09:28

| _         | Batch    | Batch      |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method     | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8021B      |     | 1      | 5 mL    | 5 mL   | 42368  | 12/23/22 08:23 | SM      | EET MID |
| Total/NA  | Analysis | Total BTEX |     | 1      |         |        | 42573  | 12/23/22 17:06 | AJ      | EET MID |
| Total/NA  | Analysis | 300.0      |     | 10     | 50 mL   | 50 mL  | 42064  | 12/17/22 00:18 | СН      | EET MID |

**Client Sample ID: TMW-2** Lab Sample ID: 880-22622-3

Date Collected: 12/12/22 10:57 **Matrix: Water** 

Date Received: 12/13/22 09:28

| _         | Batch    | Batch      |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method     | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8021B      |     | 1      | 5 mL    | 5 mL   | 42368  | 12/23/22 08:43 | SM      | EET MID |
| Total/NA  | Analysis | Total BTEX |     | 1      |         |        | 42573  | 12/23/22 17:06 | AJ      | EET MID |
| Total/NA  | Analysis | 300.0      |     | 10     | 50 mL   | 50 mL  | 42064  | 12/17/22 00:26 | CH      | EET MID |

Client Sample ID: Dup-1 Lab Sample ID: 880-22622-4

Date Collected: 12/12/22 00:00 Date Received: 12/13/22 09:28

| _         | Batch    | Batch      |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method     | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8021B      |     | 1      | 5 mL    | 5 mL   | 42368  | 12/23/22 09:04 | SM      | EET MID |
| Total/NA  | Analysis | Total BTEX |     | 1      |         |        | 42573  | 12/23/22 17:06 | AJ      | EET MID |
| Total/NA  | Analysis | 300.0      |     | 5      | 50 mL   | 50 mL  | 42064  | 12/17/22 00:33 | СН      | EET MID |

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

**Eurofins Midland** 

**Matrix: Water** 

# **Accreditation/Certification Summary**

Client: Larson & Associates, Inc.

Project/Site: NMGSAU 2102

Job ID: 880-22622-1

SDG: 19-0112-51

#### **Laboratory: Eurofins Midland**

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

| Authority  |                                 | ogram                            | Identification Number                        | Expiration Date         |  |
|--|---------------------------------|----------------------------------|--|-------------------------|--|
| Texas  | NE                              | ELAP                             | T104704400-22-25                             | 06-30-23                |  |
|  |                                 |                                  |  |                         |  |
| The following analytes                           | are included in this report, bu | it the laboratory is not certifi | ied by the governing authority. This list ma | ay include analytes for |  |
| The following analytes<br>the agency does not of |                                 | t the laboratory is not certifi  | ied by the governing authority. This list ma | ay include analytes for |  |
| the agency does not of                           | fer certification.              | •                                | , , ,  | ay include analytes for |  |
| 0 ,  |                                 | t the laboratory is not certifi  | ied by the governing authority. This list ma | ay include analytes for |  |

3

6

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10

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114

# **Method Summary**

Client: Larson & Associates, Inc. Project/Site: NMGSAU 2102

Job ID: 880-22622-1

SDG: 19-0112-51

| Method     | Method Description              | Protocol | Laboratory |
|------------|---------------------------------|----------|------------|
| 8021B      | Volatile Organic Compounds (GC) | SW846    | EET MID    |
| Total BTEX | Total BTEX Calculation          | TAL SOP  | EET MID    |
| 300.0      | Anions, Ion Chromatography      | MCAWW    | EET MID    |
| 5030B      | Purge and Trap                  | SW846    | EET MID    |

#### Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# **Sample Summary**

Client: Larson & Associates, Inc. Project/Site: NMGSAU 2102

Job ID: 880-22622-1

SDG: 19-0112-51

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 880-22622-1   | MW-2             | Water  | 12/12/22 09:53 | 12/13/22 09:28 |
| 880-22622-2   | TMW-1            | Water  | 12/12/22 10:47 | 12/13/22 09:28 |
| 880-22622-3   | TMW-2            | Water  | 12/12/22 10:57 | 12/13/22 09:28 |
| 880-22622-4   | Dup-1            | Water  | 12/12/22 00:00 | 12/13/22 09:28 |

| LABORATORY X   | RELINQUISHED BY (Signature) | RELINQUISHED BY (Signature)   | ASTANGOISHED BY SIGNAM  | TOTAL 4    |          |                            |          |   |          | \$       |   |              |          |          |          | DUP-1       | TMW-2    | 7mW-1       | MW-2           | Field<br>Sample I D                   | MNT/NM             | TIME ZONE Time zone/State | Yes X No                  | ~                       | Data Reported to | SSOCIATES, Inc.                   |
|----------------|-----------------------------|-------------------------------|-------------------------|------------|----------|----------------------------|----------|---|----------|----------|---|--------------|----------|----------|----------|-------------|----------|-------------|----------------|---------------------------------------|--------------------|---------------------------|---------------------------|-------------------------|------------------|-----------------------------------|
| Χτηφο          | Signature)                  | Signature)                    | Signature 2             |            |          |                            |          |   |          |          |   |              |          |          |          | 12)         | 121      | 12)         | 12/            | Lab# [                                |                    |                           | A=AIR                     | S=SOIL                  | MAKK LARSON      | ies, inc.<br>al Consultants       |
|                |                             |                               | J 1a                    |            |          |                            |          |   |          |          |   |              |          |          |          | 11/11/11    |          | 12/12/12/   | 12/12/12/      | Date                                  |                    |                           | OT=OTHER                  | P=PAINT                 | MON              |                                   |
|                | DATE/TIME                   | DATE/TIME                     | 1/13 POB                |            |          |                            |          |   |          |          |   |              |          |          |          | )           | 4501     | 1047        | 0953           | Time                                  |                    |                           | 東京                        | ∃<br>T                  |                  |                                   |
|                | m                           | m                             | BB                      |            |          |                            |          |   |          |          |   |              |          |          |          | ٤           | ٤        | ٤           | 3              | Matrix                                |                    |                           |                           |                         |                  |                                   |
|                | RECEIVED BY (Signature)     | RECEIVED BY (Signature)       | RECEIVED BY (Signature) | 5          |          |                            |          |   |          |          |   |              |          |          |          | 4           | 4        | 1           | 4              | # of C                                | ontai              | ners                      |                           | :                       |                  | M <sub>IC</sub>                   |
|                | IVED                        | IVED                          | VED.                    |            |          |                            |          |   |          |          |   |              |          |          |          | ×           | X        | ×           | ×              | HCI :                                 | ₹3                 |                           |                           | PRI                     |                  | Midland, TX 79701<br>432-687-0901 |
|                | ВΥ                          | ВҮ                            | 74                      |            |          |                            |          |   | <u> </u> |          |   | <u> </u>     |          |          |          |             |          |             |                | HNO <sub>3</sub>                      |                    |                           |                           | PRESERVATION            |                  | d, T<br>587-                      |
| ı              | (Sigi                       | (Sigi                         |                         | <u> </u>   |          |                            |          | - | ├-       |          | İ | <u> </u>     |          |          |          | ×           | V        |             |                |                                       | <u> </u>           | NaOH [                    |                           | X<br>M                  |                  | X 79                              |
| l              | natur                       | natur                         |                         | <u> </u>   |          |                            |          |   |          |          |   | <u> </u>     | <u> </u> |          |          |             | $\times$ | X           | ×              | ICE                                   |                    | EDV/ED                    | -                         |                         |                  | 70,                               |
| 1              | e)                          | e)                            | 10                      | <u></u>    | $\vdash$ |                            |          |   | ├        |          |   | <u> </u>     | -        |          |          | ×           |          |             |                |                                       |                    | ERVED                     |                           | <u> </u>                |                  |                                   |
|                |                             |                               | l   \                   | $\vdash$   | ├─┤      | $\vdash$                   |          |   |          |          |   | -            | -        |          |          | メ           | ×        | X           | ×              | OT NA                                 | KL.                |                           |                           |                         |                  |                                   |
|                |                             |                               |                         | lacksquare |          |                            |          |   |          |          |   | <del> </del> |          |          |          |             |          |             | $\dashv$       | 1888 W                                | X%                 | જે                        |                           |                         |                  |                                   |
|                | ı                           |                               | \                       | <b>_</b>   |          | $\dashv$                   |          |   |          |          |   | <del> </del> | -        |          |          |             |          |             | $\dashv$       |                                       | X                  |                           |                           |                         | LAI PROJECT#     | PROJECT LOCATION OR NAME:         |
|                |                             |                               |                         | $\vdash$   | $\vdash$ |                            | -        |   | -        |          |   |              | -        |          |          |             |          |             |                |                                       | **                 |                           |                           |                         | Ŗ                | ۳.<br>ا                           |
| 1              | 0.2                         |                               | ₹ ⊣                     | _          |          |                            | $\dashv$ |   |          | _        |   |              |          | $\vdash$ |          |             |          |             |                |                                       |                    |                           |                           |                         | 5                | 9                                 |
|                | 2 DAY L                     | 1 DAY                         |                         | -          | <b> </b> | -                          |          |   |          |          |   |              |          | $\vdash$ |          |             |          |             | $\dashv$       | 16%                                   | <b>₹</b>           | }{\\                      |                           | $\mathcal{N}$           | Ξ̈̈́             | 5                                 |
|                |                             | 1 DAY 🔲                       | ≥ AR                    |            |          | -                          |          |   |          |          |   |              |          |          |          |             |          |             | 7              |                                       | X                  | \\\\\                     |                           |                         | #                | 8                                 |
|                |                             | Æ                             | TURN AROUND TIME        |            |          |                            | $\dashv$ |   | -        |          |   |              |          |          |          |             |          |             | - 1            | $I \times A \times A$                 | $\sim$             | ' '                       | ' '                       | . <b>\</b> I            | #                | 9                                 |
|                |                             |                               | Ď                       |            |          | $\dashv$                   | $\dashv$ |   |          |          |   |              |          |          |          | $\neg \neg$ |          | $\dashv$    | $\dashv$       |                                       | ***                |                           |                           |                         | H                | Z                                 |
|                |                             |                               | Ĭ.                      |            |          |                            |          |   |          |          |   |              |          | $\dashv$ | $\dashv$ |             |          | -           | $\dashv$       | 18/8                                  | Z.                 |                           | //                        |                         | 19               | <u> </u>                          |
|                |                             |                               |                         |            |          |                            | $\dashv$ |   |          |          |   |              |          | $\dashv$ |          |             |          | $\dashv$    | $\neg \dagger$ | 60/4                                  | <b>X</b>           | 16 <sup>22</sup> /2       | Ø,                        |                         | 3-1              | ≨                                 |
| I              |                             | SEC SEC                       | AB                      |            |          |                            |          |   |          |          |   |              |          |          |          | -           |          | $\neg$      | 寸              | 1                                     |                    |                           |                           |                         | 0112             | ijΙ                               |
| AN             | ARR                         | 5 ₹                           | OR.                     |            |          | æ <u>=</u>                 |          |   | <u> </u> |          |   |              |          |          |          |             |          | ᅥ           | $\dashv$       | (%) (%)                               | X                  |                           |                           |                         | 2-5              |                                   |
| HAND DELIVERED | CARRIER BILL#               | RECEIVING TEMP                | ŢOF                     |            |          | 0-22                       |          |   | 4        |          |   |              |          |          |          |             |          | $\dashv$    | 十              |                                       |                    |                           | ?»)                       | <u>\\</u>               | ٣                | LAB WORK O                        |
| Ę.             | BE {                        | EAL.                          | ~                       |            | _        | 622                        |          | Ħ |          | _        |   |              |          |          |          | _           | _        | 一           | 寸              | 1696                                  | <b>X</b>           |                           | 10 M                      |                         |                  | ري<br>2 م                         |
| RE             |                             | ים י <i>י</i> ן<br>שו י       | ς<br>SE (               |            |          | Cha                        |          |   |          | $\dashv$ |   |              |          |          |          | $\neg$      | 一        | $\neg$      | - 1            | $1 \times 1 \times 1$                 | $\triangle \Sigma$ | A6/20%                    | / <i>\</i> \\\            | $\vee$ $\vee$           | 0                | ∑                                 |
| U              |                             | RECEIVING TEMP 3 (1) > THERM# | LABORATORY USE ONLY     |            |          | 880-22622 Chain of Custody |          |   |          | _        |   |              |          | 一十       |          | $\times$    | ×        | $^{\times}$ | $\times$       |                                       | 47°                | 400                       | $\langle \rangle \rangle$ |                         | COLLECTOR        | LAB WORK ORDER#<br>NMGSAU 210     |
|                |                             |                               | ₹ : <del>*</del>        |            |          | Cus                        |          |   |          |          |   |              |          |          |          |             |          |             | 1              | 1490                                  |                    |                           | (6)/                      | %                       | E                | 21<br>21                          |
|                | Í                           | Ω J                           | u.                      |            |          | tody                       |          |   |          | 7        |   |              |          | 寸        |          |             |          |             | $\neg$         | 1/8                                   |                    |                           | <u> </u>                  |                         | H                | )ER#_<br>2102                     |
|                | Ĺ                           | 豆豆                            |                         |            |          |                            |          |   |          |          |   |              |          |          | $\neg$   | 一           | 1        | \$          | <u>,</u>       |                                       | Ny.                |                           | No.                       |                         | Ä                | (                                 |
|                | 5                           | ₹/₹                           |                         |            |          |                            |          |   |          |          |   |              |          | ı        | l        |             |          |             | 1 5            | E STATE OF THE                        |                    | 100                       |                           | $(\mathcal{A})$         | A86              |                                   |
|                | -                           | J                             | ì                       |            |          |                            |          |   |          | ı        |   |              |          | - 1      |          |             | +        | \$ .        |                | Ë                                     |                    | //                        | \$\frac{\frac{1}{2}}{2}   |                         | 6/               |                                   |
|                | [                           |                               | )                       |            |          | }                          |          |   | ,        |          | l |              | 1        |          |          |             | Į.       | Apache      | <u>ح</u> ا     | FIELD NOTES                           |                    | //                        |                           | VE                      | א<br>א           |                                   |
|                | -                           | 1                             | ,                       |            |          | 1                          | 1        |   |          |          |   | l            |          |          | 1        |             |          | 2           | 1              | ) IEK                                 |                    | \                         | //                        | $\backslash \backslash$ | $ \cdot $        |                                   |
|                |                             | BROKEN WINTACT   NOT USED     | į                       |            |          |                            |          |   |          |          |   |              |          |          |          |             |          | ľ           | 1              | , , , , , , , , , , , , , , , , , , , |                    |                           | \                         | //                      |                  |                                   |
| 3 - 7          | asad                        | . 12                          | agina                   |            | (3.4.6)  | 100                        |          |   |          |          |   |              |          | Pa       | ge 1     | e di        | 4        |             |                |                                       |                    |                           |                           | $\overline{}$           | ' '              | l .                               |

## **Login Sample Receipt Checklist**

Job Number: 880-22622-1 Client: Larson & Associates, Inc. SDG Number: 19-0112-51

Login Number: 22622 **List Source: Eurofins Midland** 

List Number: 1

Creator: Rodriguez, Leticia

| Question   | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact.                                | N/A    |         |
| Sample custody seals, if present, are intact.                                    | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   |         |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | True   |         |

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 373663

#### **CONDITIONS**

| Operator:               | OGRID:   |  |  |  |  |  |
|-------------------------|--|--|--|--|--|--|
| APACHE CORPORATION      | 873  |  |  |  |  |  |
| 303 Veterans Airpark Ln | Action Number:   |  |  |  |  |  |
| Midland, TX 79705       | 373663   |  |  |  |  |  |
|                         | Action Type:   |  |  |  |  |  |
|                         | [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |  |  |  |  |  |

#### CONDITIONS

| ( | Created By       | Condition   | Condition Date |
|---|------------------|---|----------------|
|   | michael.buchanan | NMGSAU 2102 2022 4th Quarter Groundwater Monitoring Report has been accepted as part of the incident file and for record. A completion and termination report also submitted for the site on 08/14/2024. App ID: 373663 | 11/14/2024     |