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REVIEWED
By Mike Buchanan at 9:58 am, Apr 30, 2024

March 11, 2024

Mr. Nelson Velez
EMNRD- Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

Review of the 2023 GW Annual Report for the Former Eunice South Gas Plant: **Content Satisfactory**
1. Accepted for the record
2. Continue plans for abatement to convey system to GWTP for the Former Eunice South Gas Plant plume as specified in the ST2 AP for the North site.
3. Submit the 2024 Annual GW Report by April 2025.

Re: Former Eunice South Gas Plant
2023 Annual Groundwater Monitoring Report
Eunice, Lea County, New Mexico

Dear Mr. Velez,

Please find enclosed the 2023 Annual Groundwater Monitoring Report, prepared for the Former Eunice South Gas Plant, in Eunice, New Mexico.

This Report was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Chevron Environmental Management Company (CEMC).

Please do not hesitate to call Sonja Zabienski with Arcadis at 720-344-3723 or myself at 832-854-5601, should you have any questions.

Sincerely,

Jason Michelson

Jason Michelson

cc Amy Barnhill, Chevron/MCBU

ARCADIS

Chevron Environmental Management Company

2023 ANNUAL GROUNDWATER MONITORING REPORT

Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

11 March 2024

2023 ANNUAL GROUNDWATER MONITORING REPORT

Former Eunice South Gas Plant Eunice, Lea County, New Mexico

March 2024

Prepared By:

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ACRONYMS AND ABBREVIATIONS

Arcadis	Arcadis U.S., Inc.
BTEX	benzene, toluene, ethylbenzene, and xylenes
CV	coefficient of variation
DRO	diesel-range organics
ft amsl	feet above mean sea level
ft^2/d	square feet per day
GRO	gasoline-range organics
HS	HydraSleeve™
LNAPL	light nonaqueous phase liquid
mg/L	milligram per liter
NMWQCC	New Mexico Water Quality Control Commission
report	2021 Annual Groundwater Monitoring Report
S	sum of trend
Site	former Eunice South Gas Plant, located in Eunice, Lea County, New Mexico
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency

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1 INTRODUCTION

On behalf of Chevron Environmental Management Company, Arcadis U.S., Inc. (Arcadis) prepared this 2023 Annual Groundwater Monitoring Report (report) for the former Eunice South Gas Plant, located in Eunice, Lea County, New Mexico (Site). This report summarizes semiannual groundwater monitoring activities conducted in 2023 at the Site. Data presented in this report were collected during two semiannual groundwater monitoring events, conducted in February and October 2023.

The Site is located approximately 4.5 miles south of Eunice, New Mexico, in the northwest quarter of the southwest quarter of Section 27, Township 22 South, Range 37 East. The approximately 90-acre Site is bordered by State Highway 248 to the west and State Highway 18 to the east. The surrounding area is mostly flat, undeveloped grazing land with oil and gas production infrastructure. Current remedial infrastructure includes three bioventing units. The existing groundwater recovery system was decommissioned in April 2020. A Site Location Map is shown on **Figure 1**. A Well Location Map and Monitoring Plan is shown on **Figure 2** and provides additional site details. Additional site background information is provided in **Appendix A**.

The Site and surrounding area are underlain by the Ogallala Formation, which is bounded by claystones, sandstones, and siltstones from the Triassic Chinle Formation. The base of the aquifer contains 5 to 10 feet of gravel, sand, and clay overlain by red and yellow sandstones. Geological cross sections are provided in **Appendix B**.

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2 GROUNDWATER MONITORING ACTIVITIES

Groundwater at the Site is monitored semiannually from a network of 66 wells (Arcadis 2020). A Groundwater Monitoring Reduction Workplan was submitted in July 2020 and implemented following that submittal. Spring monitoring events include sampling and gauging of all 66 wells and fall events include sampling and gauging a reduced set of 20 wells. Well locations and sampling frequency are shown on **Figure 2**. **Table 1** presents a summary of 2023 groundwater monitoring activities. Arcadis performed semiannual groundwater sampling events from February 28 through March 3, 2023, and from October 30 through November 1, 2023.

2.1 Groundwater Sampling Methodology

Representative groundwater samples were collected within the screened interval of each well under undisturbed conditions using the no-purge HydraSleeve™ (HS) method. After samples were collected, new HS samplers were deployed and remained in the wells until the next monitoring event.

Field parameters including temperature, pH, dissolved oxygen, oxidation-reduction potential, specific conductivity, and turbidity were recorded prior to sample collection using a submersible probe. Samples for dissolved metals and dissolved hexavalent chromium were filtered in the field using a 0.45-micron filter. Spring and Fall 2023 field parameter readings are presented in **Tables 2** and **3**, respectively.

2.2 Groundwater Gauging

During both semiannual monitoring events, depth to groundwater and depth to light nonaqueous phase liquid (LNAPL), where present, were gauged from the top of casing in all accessible wells using an oil-water interface probe. A potentiometric surface map of the Spring 2023 elevations is shown on **Figure 3**. During the spring event, 65 out of 66 wells were gauged. Groundwater elevation data for the sampling events are presented in **Table 4**, with historical elevation data provided in **Appendix C**.

Data collected during the semiannual monitoring events indicate the following:

- Groundwater elevations ranged from 3279.41 feet above mean sea level (ft amsl) at RW-5 to 3285.33 ft amsl at MW-25 during the spring 2023 semiannual gauging event and from 3281.96 ft amsl at MW-15 to 3285.27 ft amsl at MW-25 during the fall 2023 semiannual gauging event. Note that during the spring event, an elevation of 3294.40 ft amsl at MWD-4 was recorded, however this value is inconsistent with historical data and likely the result of a gauging or recording error.
- The groundwater elevations during the 2023 monitoring events appear to be consistent with historical levels, with groundwater flow to the south/southeast. Although the land topography across the Site is relatively flat, a consistent hydrologic low spot is indicated by the water elevation data at four wells (RW-4, RW-5, MW-12 and MW-28) located in the western area of the Site, near the wells containing LNAPL in this area. Historical data indicate that these wells were part of a larger LNAPL recovery system in the western area of the Site and were pumped in 2004, 2005, and 2006.
- The calculated average gradient across the Site is approximately 0.0016 foot per foot.

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- LNAPL was detected in 15 wells with thicknesses ranging from 0.1 foot in RW-3 to 3.58 feet in MW-5 during the spring 2023 gauging event. No LNAPL was measured at the wells gauged during fall 2023. Further LNAPL discussion is provided in Section 4.
- Groundwater and LNAPL elevation data for the sampling events are presented in **Table 4**, with historical elevation data provided in **Appendix C**. LNAPL thickness and distribution observed during the comprehensive spring 2023 event is shown on **Figure 4**. Groundwater elevations in wells containing LNAPL were corrected using an assumed LNAPL specific gravity ranging from 0.72 to 0.82 based on limited LNAPL characterization conducted during 2017.

2.3 Groundwater Analytical Results

In 2023, analytical groundwater samples were collected from 45 wells during the spring event and from 21 wells during the fall event. According to the Sampling and Analysis Plan (Arcadis 2020), 58 wells are planned to be sampled during the spring event and 20 are planned to be sampled during the fall event. Additionally, two duplicate samples were collected during the spring event and one duplicate sample was collected during the fall event for quality control purposes. During the semiannual monitoring and sampling events at the wells included in the sampling plan (**Table 1**), 16 wells were not sampled in the spring and three were not sampled in the fall for the following reasons:

- *MW-1, MW-2, MW-5, MW-10, MW-12, MW-19, MW-20, MW-21, MW-27, MW-28, RW-1, RW-2, RW-3, RW-4, RW-5 and TMW-2*. LNAPL was present in these wells during the spring event.
- *MWD-9*. The well screen collapsed late 2019 and was unable to be gauged or sampled during the spring or fall monitoring events.
- *MW-11.* HS did not have enough groundwater volume to collect samples for all analyses during the fall sampling event. Chloride and hexavalent chromium samples could not be collected.

Samples were sent to Xenco Laboratories located in Midland, Texas for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX); diesel-range organics (DRO); gasoline-range organics (GRO); chloride; total dissolved solids (TDS); and dissolved metals. Analytical results were compared to the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards and are presented in **Tables 5** through **8**. Laboratory reports and data validation results are provided in **Appendix D**. Cumulative summary tables of groundwater analytical results through 2017, and 2017 through present are provided in **Appendices E** and **F**, respectively.

2.3.1 Benzene, Toluene, Ethylbenzene, Xylenes and Total Petroleum Hydrocarbons

Groundwater samples collected from 44 well locations in spring 2023 and 19 well locations in fall 2023 were analyzed by United States Environmental Protection Agency (USEPA) Methods 8021B for BTEX and 8015B for DRO and GRO. During these events, benzene was detected at concentrations greater than the NMWQCC groundwater standard of 0.005 milligram per liter (mg/L) at 13 of 44 locations, with a maximum concentration of 14.7 J mg/L (MW-24) in spring 2023, where J qualifier indicated that the target analyte was positively identified below the quantitation limit and above the detection limit and the concentration is an estimated value. Benzene concentrations exceeded The NMWQCC groundwater

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standard at 9 of 19 locations, with a maximum concentration of 15.3 mg/L (MW-24) in fall 2023. Analytical results for the samples collected for ethylbenzene, toluene, and xylenes analyses were each less than their respective standards. There are no NMWQCC groundwater standards established for DRO or GRO. **Figures 5** and **6** show benzene isoconcentrations for the spring and fall 2023 monitoring events, respectively. The 2023 BTEX results are presented in **Tables 5** and **6**. Historical results are provided in **Appendices E** and **F**.

2.3.2 Chloride and Total Dissolved Solids

Groundwater samples collected from 44 well locations in spring 2023 and 19 well locations in fall 2023 were analyzed by USEPA Methods 300/300.1 and 2540C for chloride and TDS, respectively (**Table 1**). **Figures 7** and **8** show chloride isoconcentrations for the spring and fall 2023 monitoring events, respectively. Results are summarized as follows:

- *Chloride.* The NMWQCC groundwater standard of 250 mg/L was exceeded at 34 of 44 locations, with a maximum concentration of 18,400 mg/L (MWD-3) in spring 2023. The NMWQCC groundwater standard was exceeded at 13 of 19 locations, with a maximum concentration of 18,100 mg/L (MWD-3) in fall 2023.
- *TDS.* The NMWQCC groundwater standard of 1,000 mg/L was exceeded at 39 or 44 locations, with a maximum concentration of 33,900 mg/L (MWD-3) in spring 2023. The NMWQCC groundwater standard was exceeded at 17 of 19 locations with a maximum concentration of 32,700 mg/L (MWD-3) in fall 2023.

2023 chloride and TDS results are summarized in **Tables 7** and **8**. Historical results are included in **Appendices E** and **F**.

2.3.3 Dissolved Metals

Groundwater samples collected from 44 well locations in spring 2023 and 19 well locations in fall 2023 were analyzed by USEPA Method 6020A for dissolved arsenic, dissolved total chromium, and dissolved barium; and USEPA Method 7196A for dissolved hexavalent chromium (**Table 1**). Results are summarized as follows:

- *Dissolved arsenic*. The NMWQCC groundwater standard of 0.01 mg/L was exceeded in 30 of 44 locations in spring 2023, with a maximum concentration of 0.152 mg/L (RW-8). The NMWQCC groundwater standard was exceeded at 11 of 19 locations in fall 2023, with a maximum concentration of 0.0586 mg/L (MW-26).
- *Dissolved total chromium*. The NMWQCC groundwater standard of 0.05 mg/L was exceeded in 1 of 44 locations, with a maximum concentration of 0.0979 mg/L (MW-16) in spring 2023. The NMWQCC groundwater standard was exceeded in 1 of 19 locations, with a maximum concentration of 0.088 mg/L (MW-16) during fall 2023.
- *Dissolved hexavalent chromium*. The NMWQCC groundwater standard of 0.05 mg/L was exceeded in 1 of 44 locations, with a maximum concentration of 0.843 mg/L (MW-16) in spring 2023. The NMWQCC groundwater standard was exceeded in 1 of 19 locations, with a maximum concentration of 0.0742 mg/L (MW-16) during fall 2023.

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- *Dissolved barium*. The NMWQCC groundwater standard of 2 mg/L was exceeded in 10 of 44 locations, with a maximum concentration of 13.1 mg/L (MWD-3) in spring 2023. The NMWQCC groundwater standard was exceeded at 7 of 19 locations, with a maximum concentration of 6.71 mg/L (MW-29) in fall 2023.

The 2023 dissolved metals results are presented in **Tables 7** and **8**. Historical results are provided in **Appendices E** and **F**.

2.4 Benzene and Chloride Trend Analysis

2.4.1 Mann-Kendall Test Methodology

Mann-Kendall analysis was used to evaluate concentration trends at representative site wells. Wells were selected for trend analysis based on data completeness (i.e., at least five data points since the start of HS sampling in spring 2016) and locations within the benzene and chloride plumes to represent conditions within the respective plume areas. Trends are evaluated annually.

The Mann-Kendall trend test is a nonparametric test that determines trends based on ranked data. As such, it is relatively insensitive to outlier values and nondetect concentrations and does not require the data to fit a specific model. The basic Mann-Kendall trend test is performed by listing the concentrations of the constituent of interest in temporal order and computing the differences between a given measurement and earlier measurements (Gilbert 1987; USEPA 2009). Based on USEPA guidance, nondetect values are set to one value less than that of any detections (USEPA 2009). The Mann-Kendall test statistic (sum of trend [S]) is the difference between the number of strictly positive differences and the number of strictly negative differences. If S is positive, an increasing trend is indicated; if S is negative, a decreasing trend is indicated; and if S is near zero, no trend is apparent. Trends with positive or negative S-statistics were accepted as statistically significant for p-values less than or equal to 0.1 (90 percent confidence level). The coefficient of variation (CV) is a quantitative measure that can be used to evaluate if concentrations are stable in cases where a statistically significant trend is not apparent. The CV is calculated as the standard deviation divided by the mean (average) concentration. CV values near or greater than 1 indicate variability in concentrations through time, while lower values indicate stability. CV values less than 1 indicate a stable trend and CV values greater than or equal to 1 indicate no trend. Mann-Kendall analyses were performed on data collected after the sampling methodology change to HS that occurred site-wide in spring 2016.

2.4.2 Benzene Trend Analysis Results

A table summarizing Mann-Kendall analyses and individual trend charts are presented in **Appendix G**. Results from the Mann-Kendall analyses indicate the following:

- Northern plume fringe (onsite):

o TMW-1 benzene concentrations were between nondetect at less than 0.000408 mg/L (September 2016) and 0.108 mg/L (September 2018), and do not indicate a statistically significant trend (**Appendix G**, **Figure G-1**). However, concentrations have been generally decreasing since reaching a maximum in September 2018. The most recent concentration was a non-detect of less

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than 0.002 mg/L (March 2023). The previous concentration in February 2022 did exceed the NMWQCC standard of 0.005 mg/L with a concentration of 0.0177 mg/L.

- Central plume (onsite):

o MW-26 benzene concentrations range between 0.0449 J mg/L (March 2023) and 1.79 mg/L (September 2017) and indicate a statistically significant decreasing trend (**Appendix G**, **Figure G-2**). The most recent concentration of 0.198 mg/L (November 2023) exceeds the benzene NMWQCC groundwater standard.

- Eastern plume (onsite):

o MWD-14 benzene concentrations range have remained stable between 0.211 D mg/L (February 2022) and 2.60 mg/L (September 2017). They do not indicate a statistically significant trend at 90 percent confidence (**Appendix G**, **Figure G-3**). Based on the CV value of 0.6, the concentrations are generally stable. The most recent concentration of 1.53 D J mg/L exceeds the benzene NMWQCC groundwater standard.

o MWD-17 benzene concentrations range between 0.015 J mg/L (March 2023) and 0.957 mg/L (September 2016) and indicate a statistically significant decreasing trend (**Appendix G**, **Figure G-4**). All concentrations exceed the benzene NMWQCC groundwater standard.

- Southern plume fringe (onsite):

o MW-32 benzene concentrations were between a non-detect of 0.002 mg/L (September 2022) and 14.7 mg/L (September 2017) during the analysis period. The time period analyzed at this location was adjusted to include data following the peak in concentrations (September 2017) to better represent more recent data trends. The results of this adjusted Mann-Kendall analysis indicate a statistically significant decreasing trend (**Appendix G**, **Figure G-5**). The most recent concentration of 0.211 mg/L (October 2023) exceeds the benzene NMWQCC groundwater standard.

o MW-29 benzene concentrations were between a non-detect of 0.002 mg/L (February 2022) and 1.60 mg/L (September 2017) during the analysis period. The time period analyzed at this location was adjusted to include data following the peak in concentrations (September 2017) to better represent more recent data trends. The results of this adjusted Mann-Kendall analysis indicate a statistically significant decreasing trend (**Appendix G**, **Figure G-6**). The most recent concentration was 0.0105 J mg/L (November 2023).

Significantly decreasing trends seen downgradient and in the eastern plume area (MWD-14 and MWD-17) could indicate that the plume footprint and concentration is potentially naturally attenuating at the leading edges because active benzene treatment is not implemented at this time. A summary map of the benzene trend analyses is provided in **Appendix G**, **Figure G-**7.

2.4.3 Chloride Trend Analysis Results

A table summarizing Mann-Kendall analyses and individual trend charts are provided in **Appendix G**. Results from the Mann-Kendall analyses indicate the following:

- Western plume fringe (offsite):

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- MW-35 chloride concentrations were between 133 mg/L (September 2021) and 1,810 mg/L (April 2017; upon well installation) and indicate a statistically significant decreasing trend (**Appendix G**, **Figure G-8**). The most recently measured chloride concentration of 149 mg/L (October 2023) was less than the NMWQCC groundwater standard of 250 mg/L and concentrations have been below the NMWQCC groundwater standard since April 2019.

- Onsite western plume:
  - TMW-1 chloride concentrations were between 378 mg/L (March 2023) and 761 mg/L (April 2016) during the analysis period and indicate a statistically significant decreasing trend (**Appendix G**, **Figure G-9**). The most recent concentration of 378 mg/L (March 2023) exceeds the chloride NMWQCC groundwater standard.
  - MW-26 chloride concentrations were between 133 mg/L (November 2023) and 285 mg/L (April 2016) during the analysis period. At 90 percent confidence, chloride concentrations showed a statistically significant decreasing trend at this well and stabilized to less than the NMWQCC groundwater standard (**Appendix G**, **Figure G-10**). The NMWQCC groundwater standard for chloride was only exceeded during the analysis period in April 2016.
- Onsite central plume:
  - MWD-14 chloride concentrations were between 426 mg/L (September 2020) and 8,000 mg/L (March 2018) during the analysis period and indicate a statistically significant decreasing trend (**Appendix G, Figure G-11**). The most recent concentration of 474 mg/L (November 2023) exceeds the chloride NMWQCC groundwater standard.
  - MW-32 chloride concentrations were between 435 mg/L (October 2019) and 1,120 mg/L (March 2016). Although not statistically significant at 90 percent confidence, visual analysis of concentrations through time indicate that chloride concentrations have generally stabilized over the last few sampling events (**Appendix G**, **Figure G-12**). The most recent chloride concentration of 871 mg/L (October 2023) exceeds the NMWQCC groundwater standard.
  - MW-29 chloride concentrations were between 101 mg/L (September 2016) and 356 mg/L (February 2022) during the analysis period and indicate a statistically significant increasing trend (**Appendix G**, **Figure G-13**). Chloride concentrations exceeded the NMWQCC groundwater standard during the last eight monitoring events.
- Eastern plume fringe (offsite):
  - MWD-7 chloride concentrations have remained stable between 3,870 mg/L (March 2021) and 7,210 mg/L (September 2016) (**Appendix G**, **Figure G-14**). The most recent concentration of 6,170 mg/L (March 2023) exceeds the NMWQCC groundwater standard for chloride.
  - MW-15 chloride concentrations have ranged between 968 mg/L (March 2021) and 2,320 mg/L (September 2018) (**Appendix G**, **Figure G-15**). Concentrations have been statistically significant and decreasing since September 2018. This is confirmed by Mann-Kendall trend analysis run on an abbreviated time period (September 2018 through September 2020), which indicates a statistically significant decreasing trend (**Appendix G, Figure G-16**). The most recent chloride concentration of 1,380 mg/L (October 2023) exceeds the NMWQCC groundwater standard.

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- Southern plume fringe (offsite):

o MW-38 chloride concentrations show a statistically significant increasing trend and range from 52.7 mg/L (September 2021) to 1,050 mg/L (October 2023) (**Appendix G**, **Figure G-17**). Concentrations dropped significantly between March 2021 (585 mg/L) and September 2021 (52.7 mg/L). The most recent chloride concentration of 1,050 mg/L (October 2023) exceeds the NMWQCC groundwater standard.

o MW-36 chloride concentrations are statistically significant increasing, ranging from 391 mg/L (April 2017) to 453 mg/L (March 2020) (**Appendix G**, **Figure G-18**). All concentrations have exceeded the NMWQCC standard.

o MW-37 chloride concentrations have remained stable between 314 mg/L (October 2019) and 357 mg/L (March 2021) (**Appendix G**, **Figure G-19**). All concentrations have exceeded the NMWQCC standard.

Decreasing chloride concentration trends seen across the upgradient portion of the plume (as represented by MW-35, TMW-1, MW-26, and MWD-14) could indicate natural plume attenuation or migration within the existing plume footprint. Stable concentrations seen at the easternmost edge of the plume in the area of MWD-7 also support the stability of the upgradient to cross-gradient plume edges. An increasing trend seen in the area of MW-29, MW-36, and MW-38 could indicate a natural concentration migration within the plume footprint toward the downgradient, leading edge of the chloride plume. A summary map of the chloride trend analyses is provided in **Appendix G**, **Figure G-20**.

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3 LIGHT NONAQUEOUS PHASE LIQUID INVESTIGATION ACTIVITIES

LNAPL transmissivity tests were conducted at 11 well locations in November and December 2023 to assess relative LNAPL recoverability compared to previous years since 2016. LNAPL transmissivity tests included two of the three wells at which bioventing systems are operating (RW-2 and MW-28) to compare transmissivity values through time and with the influence of the bioventing application. The third bioventing well, MW-27, was not tested due to an insufficient amount of measured LNAPL in the well at the time of testing. Transmissivity testing procedures, results, and analysis are provided in **Appendix H**. The 2023 LNAPL transmissivity testing results, including the average results since 2016 for comparison, are presented in **Table 9**. Notable results observed at bioventing wells include:

- LNAPL thickness was measured to be 0.1 ft at MW-27; this is an insufficient thickness to provide estimates of transmissivity at the well (ASTM 2013), so transmissivity testing was not completed at MW-27 in 2023.
- Results for bioventing well MW-28 indicate a decrease in LNAPL transmissivity from approximately 5.6 square feet per day (ft^2/d) in 2022 to approximately 3.6 ft^2/d in 2023. Between 2016 and 2021, results appeared to be declining; 2023 results are nearly equal to the average value of previous years' results.
- Results for bioventing well RW-2 indicate a decrease in LNAPL transmissivity from 10.8 ft^2/d in 2022 to 5.1 ft^2/d in 2023. Except for 2022 results, transmissivity results for bioventing well RW-2 ranged between 4.2 ft^2/d to 8.6 ft^2/d from 2016 to 2023 and appear relatively stable over multiple testing events.

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4 OPERATION AND MAINTENANCE ACTIVITIES

This section discusses operation and maintenance of the bioventing units.

4.1 Bioventing

As part of the bioventing system, bioventing units operated at wells MW-27, MW-28, and RW-2 in 2023. Air emission samples were collected annually, in September 2023, and analyzed by Eurofins Air Toxics. Based on the bioventing air emissions data, reviewed and explained in **Appendix H**, bioventing is continuing to provide an observable positive impact on LNAPL degradation at the Site relative to ambient conditions, with approximately 4,880 gallons of LNAPL degraded during system operation through December 2023.

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5 SUMMARY

The 2023 monitoring and investigation activities indicated the following:

- Groundwater analytical results are consistent with historical trends observed and suggest an overall stable plume.
- Mann-Kendall results indicate that benzene concentrations are generally decreasing across the Site. Chloride concentrations within the upgradient plume area appear to be stable to decreasing. Trend analysis of chloride concentrations at onsite and downgradient plume fringe monitoring locations MW-29, MW-36, and MW-38, respectively, indicate increasing trends.
- LNAPL transmissivity testing results indicate that testing at bioventing wells should continue to be conducted annually, with testing at other LNAPL wells biennially.
- Air emissions and LNAPL transmissivity data indicate that the bioventing units should remain on wells MW-27, MW-28, and RW-2 in 2024.

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6 REFERENCES

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TABLES

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Table 1
Summary of 2022 Groundwater Monitoring Activities
2022 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

Monitoring Well ID	Groundwater Elevation	Field Water Quality Parameters	BTEX (8021B)	GRO (8015B)	DRO (8015B)	Dissolved Metals (6020A)	Hexavalent Chromium (7196A)	Chloride (300.0)	TDS (2540C)	Notes
MW-1	x/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	LNAPL
MW-2	x/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	LNAPL
MW-3	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	Well not planned to be sampled during Fall 2023, but was sampled by error.
MW-4	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
MW-5	x/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	LNAPL
MW-6	x/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	
MW-7	x/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	
MW-8	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
MW-9	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
MW-10	x/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	LNAPL
MW-11	x/x	x/x	x/x	x/x	x/x	x/x	x/(x)	x/(x)	x/x	Hydrasleeve had insufficient sample volume during Fall 2023
MW-12	x/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	LNAPL
MW-13	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
MW-14	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	/DUP-02
MW-15	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	DUP-01/DUP-01
MW-16	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	
MW-17	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	
MW-18	x/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	
MW-19	x/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	LNAPL
MW-20	x/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	LNAPL
MW-21	x/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	LNAPL
MW-22	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
MW-23	x/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	
MW-24	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	
MW-25	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	
MW-26	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	
MW-27	x/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	LNAPL
MW-28	x/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	LNAPL
MW-29	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	
MW-30	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	
MW-31	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
MW-32	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	
MW-34	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	DUP-02/
MW-35	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	
MW-36	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
MW-37	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
MW-38	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	
MWD-1	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
MWD-2	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	

Released to Imaging: 4/30/2024 10:08:36 AM

Received by OCD: 3/13/2024 8:36:42 PM

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Monitoring Well ID	Groundwater Elevation	Field Water Quality Parameters	BTEX (8021B)	GRO (8015B)	DRO (8015B)	Dissolved Metals (6020A)	Hexavalent Chromium (7196A)	Chloride (300.0)	TDS (2540C)	Notes
MWD-3	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	
MWD-4	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
MWD-5	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
MWD-6	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
MWD-7	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
MWD-8	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
MWD-9	x/(x)	(x)/(x)	(x)/(x)	(x)/(x)	(x)/(x)	(x)/(x)	(x)/(x)	(x)/(x)	(x)/(x)	Well damaged due to excess sand in well.
MWD-11	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
MWD-12	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	
MWD-13	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	
MWD-14	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	/DUP-02
MWD-15	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	
MWD-17	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
RW-1	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	LNAPL
RW-2	x/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	LNAPL
RW-3	x/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	LNAPL
RW-4	x/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	LNAPL
RW-5	x/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	LNAPL
RW-6	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	x/x	
RW-7	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
RW-8	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
TMW-1	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
TMW-2	x/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	(x)/--	LNAPL
TMW-3	x/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	--/--	
TMW-6	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
WW-2	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	
WW-7	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	x/--	

Acronyms and Abbreviations:

BTEX = benzene, toluene, ethylbenzene, and xylenes

DRO = diesel-range organics

GRO = gasoline-range organics

ID = identification

LNAPL = light nonaqueous phase liquid

TDS = total dissolved solids

x / x = spring sampling event/fall sampling event

x = sample planned and collected

(x) = sample planned and not collected

-- = no sample planned during event

Table 2
Spring 2023 Field Parameters
2023 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

Location ID	Date	Dissolved Oxygen	Oxidation-Reduction Potential	pH	Specific Conductivity	Temperature	Turbidity
		mg/L	mV	SU	µS/cm	°C	NTU
MW-3	3/3/2023	5.88	60	6.35	1.22	16.95	22.2
MW-4	3/2/2023	2.31	188	6.68	6.49	17.61	24.9
MW-9	3/1/2023	2.90	87	5.76	1.09	17.98	15.6
MW-8	3/1/2023	1.90	82	5.66	4.24	18.87	12.0
MW-11	3/3/2023	5.07	-41	5.98	1.82	19.90	1.6
MW-13	3/1/2023	5.54	91	6.22	1.91	20.03	36.8
MW-14	3/1/2023	2.29	94	6.16	2.58	19.18	48.3
MW-15	3/1/2023	2.66	269	5.22	5.53	16.06	96.7
MW-16	3/1/2023	3.14	269	5.30	6.62	17.29	3.2
MW-17	3/2/2023	2.12	45	7.87	3.78	21.02	0.0
MW-22	3/2/2023	1.77	9	6.49	14.1	21.45	0.0
MW-24	3/3/2023	2.61	2.23	6.13	2.23	18.57	2.7
MW-25	3/3/2023	3.86	62	4.71	9.33	18.78	57.1
MW-26	3/3/2023	2.48	-26	5.65	1.81	19.60	30.7
MW-29	3/1/2023	2.25	-45	6.28	2.71	19.70	22.5
MW-30	3/1/2023	3.00	84	5.74	2.29	18.46	16.3
MW-31	3/1/2023	1.88	33	6.02	2.53	20.03	9.9
MW-32	3/1/2023	2.55	30	5.94	4.83	19.33	16.0
MW-34	3/1/2023	2.23	23	5.50	2.60	17.76	42.2
MW-35	3/1/2023	2.58	98	5.68	1.55	17.69	13.5
MW-36	3/1/2023	2.84	243	5.47	2.58	17.43	32.0
MW-37	3/1/2023	2.23	89	6.33	2.06	19.60	8.0
MW-38	3/1/2023	2.16	87	5.86	3.91	19.71	1.7
MWD-1	3/2/2023	2.47	85	7.41	2.65	21.82	65.0
MWD-2	3/2/2023	7.70	181	7.02	3.99	18.01	2.1
MWD-3	3/2/2023	2.07	44	5.94	0.700	21.92	0.2
MWD-4	3/2/2023	4.82	-10	6.36	2.25	17.76	24.3
MWD-5	3/1/2023	2.23	-39	6.37	3.15	19.69	9.6
MWD-6	3/1/2023	2.27	21	5.74	1.90	18.23	24.7
MWD-7	3/2/2023	2.04	32	7.10	19.0	21.37	22.0
MWD-8	3/2/2023	5.83	99	7.65	1.11	20.48	19.5
MWD-11	3/3/2023	6.83	94	6.29	1.06	18.00	269
MWD-12	3/2/2023	4.99	175	4.44	5.30	15.24	55.1
MWD-13	3/2/2023	2.50	122	5.18	12.1	18.36	13.3
MWD-14	3/3/2023	3.30	4	4.77	5.43	15.32	59.3
MWD-15	3/3/2023	3.51	6	4.60	4.85	16.96	73.5
MWD-17	3/2/2023	1.49	49	5.92	15.8	21.45	0.0
TMW-1	3/3/2023	2.41	68	5.70	1.85	17.93	5.7
TMW-6	3/3/2023	2.44	-43	6.22	2.30	18.77	15.4
RW-6	3/2/2023	1.59	-13	6.20	5.46	20.20	9.1
RW-7	3/2/2023	3.38	95	6.24	10.8	21.06	0.0
RW-8	3/3/2023	3.55	121	3.98	5.20	14.53	110
WW-2	3/1/2023	1.90	36	5.79	2.33	18.15	129
WW-7	3/1/2023	2.02	-112	6.20	1.13	18.11	122

Acronyms and Abbreviations:
ID = identification
mg/L = milligrams per liter
mV = millivolts
NTU = nephelometric turbidity unit
SU = standard unit
µS/cm = microSiemens per centimeter
°C = degrees Celsius
-- = Not detected/ Not Measured

Table 3
Fall 2023 Field Parameters
2023 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

Location ID	Date	Dissolved Oxygen	Oxidation-Reduction Potential	pH	Specific Conductivity	Temperature	Turbidity
		mg/L	mV	SU	mS/cm	°C	NTU
MW-11	11/1/2023	--	--	--	--	--	--
MW-15	10/31/2023	1.28	28.5	7.17	9.74	21.50	1,072
MW-16	10/31/2023	1.30	46.9	7.17	12.5	21.05	1,039
MW-17	11/1/2023	2.07	-173	7.39	6.54	20.65	41.9
MW-24	11/1/2023	0.40	-247	7.18	4.52	18.70	5.8
MW-25	11/1/2023	1.61	-273	7.46	18.1	20.30	13.2
MW-26	11/1/2023	2.12	-230	7.40	4.21	18.90	27.7
MW-29	11/1/2023	--	--	--	--	--	--
MW-30	11/1/2023	0.84	-254	7.09	4.03	19.10	48.5
MW-32	10/31/2023	--	--	--	--	--	--
MW-34	10/31/2023	0.14	-243	7.08	5.34	19.28	955
MW-35	10/31/2023	8.82	-354	7.73	2.96	17.10	1,000
MW-38	10/31/2023	0.49	-155	7.38	7.68	20.40	1039
MWD-3	11/2/2023	1.53	-144	7.22	59.3	22.60	0.00
MWD-12	11/1/2023	0.80	-327	7.86	10.5	15.80	196
MWD-13	11/1/2023	2.91	-166	7.29	28.3	16.90	38.9
MWD-14	11/1/2023	--	--	--	--	--	--
MWD-15	11/1/2023	2.81	-183	7.00	9.83	22.30	0.00

Acronyms and Abbreviations:

°C = degrees Celsius

ID = identification

mg/L = milligrams per liter

mV = millivolts

NTU = nephelometric turbidity unit

SU = standard unit

mS/cm = milliSiemens per centimeter

-- parameters are missing from field data

Table 4
2023 Groundwater Elevations
2023 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MW-1	2/28/2023	3335.09	54.59	53.18	1.41	0.74	3280.50	3281.54
MW-2	2/28/2023	3335.70	53.00	51.47	1.53	0.74	3282.70	3283.83
MW-3	2/28/2023	3339.65	55.17	NM	NA	NA	3284.48	3284.48
MW-4	2/28/2023	3333.25	49.41	NM	NA	NA	3283.84	3283.84
MW-5	2/28/2023	3333.85	54.00	50.42	3.58	0.82	3279.85	3282.79
MW-6	2/28/2023	3332.33	49.40	NM	NA	NA	3282.93	3282.93
MW-7	2/28/2023	3330.43	47.89	NM	NA	NA	3282.54	3282.54
MW-8	2/28/2023	3330.59	48.74	NM	NA	NA	3281.85	3281.85
MW-9	2/28/2023	3334.73	52.80	NM	NA	NA	3281.93	3281.93
MW-10	2/28/2023	3336.38	52.66	50.86	1.80	0.74	3283.72	3285.05
MW-11	2/28/2023	3334.86	51.30	NM	NA	NA	3283.56	3283.56
MW-11	10/30/2023	3334.86	51.25	NM	NA	NA	3283.61	3283.61
MW-12	2/28/2023	3333.88	51.36	50.21	1.15	0.72	3282.52	3283.35
MW-13	2/28/2023	3336.15	55.57	NM	NA	NA	3280.58	3280.58
MW-14	2/28/2023	3333.04	51.93	NM	NA	NA	3281.11	3281.11
MW-15	2/28/2023	3328.98	46.95	NM	NA	NA	3282.03	3282.03
MW-15	10/30/2023	3328.98	47.02	NM	NA	NA	3281.96	3281.96
MW-16	2/28/2023	3330.20	48.65	NM	NA	NA	3281.55	3281.55
MW-16	10/30/2023	3330.20	47.72	NM	NA	NA	3282.48	3282.48
MW-17	2/28/2023	3334.32	50.61	NM	NA	NA	3283.71	3283.71
MW-17	10/30/2023	3334.32	50.68	NM	NA	NA	3283.64	3283.64
MW-18	2/28/2023	3336.10	51.74	NM	NA	NA	3284.36	3284.36
MW-19	2/28/2023	3334.21	52.30	50.88	1.42	0.82	3281.91	3283.07
MW-20	2/28/2023	3334.06	53.38	50.55	2.83	0.82	3280.68	3283.00
MW-21	2/28/2023	3333.02	52.32	49.90	2.42	0.82	3280.70	3282.68
MW-22	2/28/2023	3334.87	51.89	NM	NA	NA	3282.98	3282.98
MW-23	2/28/2023	3334.45	51.07	NM	NA	NA	3283.38	3283.38
MW-24	2/28/2023	3336.97	53.23	NM	NA	NA	3283.74	3283.74
MW-24	10/30/2023	3336.97	53.26	NM	NA	NA	3283.71	3283.71
MW-25	2/28/2023	3336.31	50.98	NM	NA	NA	3285.33	3285.33
MW-25	10/30/2023	3336.31	51.04	NM	NA	NA	3285.27	3285.27
MW-26	2/28/2023	3334.93	51.62	NM	NA	0.72	3283.31	3283.31
MW-26	10/30/2023	3334.93	51.67	NM	NA	0.72	3283.26	3283.26
MW-27	2/28/2023	3334.96	53.60	52.08	1.52	0.72	3281.36	3282.45
MW-28	2/28/2023	3333.04	54.70	53.17	1.53	0.72	3278.34	3279.44
MW-29	2/28/2023	3334.01	51.91	NM	NA	NA	3282.10	3282.10
MW-29	10/30/2023	3334.01	51.98	NM	NA	NA	3282.03	3282.03
MW-30	2/28/2023	3336.49	54.56	NM	NA	NA	3281.93	3281.93
MW-30	10/30/2023	3336.49	52.85	NM	NA	NA	3283.64	3283.64
MW-31	2/28/2023	3334.52	53.09	NM	NA	NA	3281.43	3281.43
MW-32	2/28/2023	3333.01	50.53	NM	NA	NA	3282.48	3282.48
MW-32	10/30/2023	3333.01	50.63	NM	NA	NA	3282.38	3282.38
MW-34	2/28/2023	3335.77	52.76	NM	NA	NA	3283.01	3283.01
MW-34	10/30/2023	3335.77	52.82	NM	NA	NA	3282.95	3282.95
MW-35	2/28/2023	NM	56.42	NM	NA	NA	NM	NM
MW-35	10/30/2023	NM	56.32	NM	NA	NA	NM	NM
MW-36	2/28/2023	NM	60.21	NM	NA	NA	NM	NM
MW-37	2/28/2023	NM	55.83	NM	NA	NA	NM	NM
MW-38	2/28/2023	NM	50.28	NM	NA	NA	NM	NM
MW-38	10/30/2023	NM	54.62	NM	NA	NA	NM	NM
MWD-1	2/28/2023	3335.26	51.37	NM	NA	NA	3283.89	3283.89
MWD-2	2/28/2023	3336.32	52.32	NM	NA	NA	3284.00	3284.00
MWD-3	2/28/2023	3335.06	51.84	NM	NA	NA	3283.22	3283.22
MWD-3	11/1/2023	3335.06	51.93	NM	NA	NA	3283.13	3283.13
MWD-4	2/28/2023	3330.86	36.46	NM	NA	NA	3294.40	3294.40
MWD-5	2/28/2023	3334.01	51.40	NM	NA	NA	3282.61	3282.61
MWD-6	2/28/2023	3335.08	52.73	NM	NA	NA	3282.35	3282.35
MWD-7	2/28/2023	3332.82	49.65	NM	NA	NA	3283.17	3283.17
MWD-8	2/28/2023	3335.97	51.91	NM	NA	NA	3284.06	3284.06
MWD-9	2/28/2023	3333.45	50.42	NM	NA	NA	3283.03	3283.03
MWD-11	2/28/2023	3338.24	54.12	NM	NA	NA	3284.12	3284.12
MWD-12	2/28/2023	3334.08	51.78	NM	NA	NA	3282.30	3282.30
MWD-12	10/30/2023	3334.08	51.87	NM	NA	NA	3282.21	3282.21
MWD-13	2/28/2023	3332.11	49.54	NM	NA	NA	3282.57	3282.57
MWD-13	10/30/2023	3332.11	49.65	NM	NA	NA	3282.46	3282.46
MWD-14	2/28/2023	3333.76	50.73	NM	NA	NA	3283.03	3283.03
MWD-14	10/30/2023	3333.76	50.75	NM	NA	NA	3283.01	3283.01
MWD-15	2/28/2023	3335.35	51.57	NM	NA	NA	3283.78	3283.78
MWD-15	10/30/2023	3335.35	51.61	NM	NA	NA	3283.74	3283.74
MWD-17	2/28/2023	3334.74	51.49	NM	NA	NA	3283.25	3283.25
RW-2	2/28/2023	3337.84	56.49	55.05	1.44	0.74	3281.35	3282.42
RW-3	2/28/2023	3338.06	55.66	55.56	0.10	0.72	3282.40	3282.47
RW-4	2/28/2023	3334.14	55.45	53.75	1.70	0.72	3278.69	3279.91
RW-5	2/28/2023	3334.20	55.19	54.64	0.55	0.72	3279.01	3279.41
RW-6	2/28/2023	3332.37	49.53	NM	NA	NA	3282.84	3282.84
RW-6	10/30/2023	3332.37	49.66	NM	NA	NA	3282.71	3282.71
RW-7	2/28/2023	3331.23	50.71	NM	NA	NA	3280.52	3280.52
RW-8	2/28/2023	3333.39	52.28	NM	NA	NA	3281.11	3281.11
TMW-1	2/28/2023	3337.70	53.44	NM	NA	NA	3284.26	3284.26
TMW-2	2/28/2023	3338.30	54.74	54.12	0.62	0.82	3283.56	3284.18
TMW-3	2/28/2023	3336.67	52.63	NM	NA	NA	3284.04	3284.04
TMW-6	2/28/2023	3335.36	51.28	NM	NA	NA	3284.08	3284.08
WW-2	2/28/2023	3331.46	49.23	NM	NA	NA	3282.23	3282.23
WW-7	2/28/2023	3331.73	50.29	NM	NA	NA	3281.44	3281.44

Note:
1. Corrected groundwater elevations are corrected using an assumed LNAPL specific gravity of determined during LNAPL transmissivity testing. The formula used to correct groundwater elevation is as follows:

$$Corrected\ GW\ Elevation = TOC\ Elevation - (DTW - LNAPL\ Thickness * LNAPL\ Specific\ Gravity)$$

Acronyms and Abbreviations:
amsl = above mean sea level
btoc = below top of casing
DTW = depth to groundwater
GW = groundwater
ID = identification
LNAPL = light nonaqueous phase liquid
NA = not applicable
NM = not measured
TOC = top of casing

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Table 5
Spring 2023 BTEX Analytical Data
2023 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

ARCADIS

Location ID	Date Sampled	Analyte	Benzene		Toluene		Ethylbenzene		m,p-Xylenes		o-Xylene		Total Xylenes		DRO		GRO	
		Unit	mg/L															
		NMWQCC Standard	0.005		1		0.7		--		--		0.62		NA		NA	
MW-3	3/3/2023	REG	**0.00201**		<0.00200	U J	<0.00200	U	**0.00165**	J	<0.00200	U	**0.00165**	J	<4.98	U	<4.98	U
MW-4	3/2/2023	REG	<0.00200	U J	<0.00200	U	<0.00200	U	**0.00160**	J	<0.00200	U	**0.00160**	J	<4.49	U	<4.49	U
MW-8	3/1/2023	REG	**0.000435**	J	**0.000637**	J	<0.00200	U	**0.000744**	J	<0.00200	U	**0.000744**	J	<4.36	U	<4.36	U
MW-9	3/1/2023	REG	<0.00200	R	<0.00200	R	<0.00200	R	**0.00159**	J	<0.00200	R	**0.00159**	J	<4.69	U	**1.05**	J
MW-11	3/3/2023	REG	**5.78**	J	**0.00880**	J	**0.0114**	J	**0.0677**	J	**0.0102**	J	**0.0779**	J	**0.975**	J	**11.1**	
MW-13	3/1/2023	REG	**0.000436**	J	<0.00200	U	<0.00200	U	<0.00400	U	<0.00200	U	<0.00400	U	<4.53	U	<4.53	U
MW-14	3/1/2023	REG	<0.00200	U	<0.00200	U	<0.00200	U	<0.00400	U	<0.00200	U	<0.00400	U	<4.27	U	<4.27	U
MW-15	3/1/2023	REG	<0.00200	U J	<0.00200	U	<0.00200	U	**0.00179**	J	<0.00200	U	**0.00179**	J	<4.76	U	<4.76	U
MW-15	3/1/2023	FD	<0.00200	U J	<0.00200	U	<0.00200	U	**0.00168**	J	<0.00200	U	**0.00168**	J	<4.62	U	<4.62	U
MW-16	3/1/2023	REG	<0.00200	U J	<0.00200	U	<0.00200	U	**0.00160**	J	<0.00200	U	**0.00160**	J	<4.63	U	<4.63	U
MW-17	3/2/2023	REG	<0.00200	U J	<0.00200	U J	<0.00200	U J	<0.00400	U J	<0.00200	U J	<0.00400	U J	<4.72	U	<4.72	U
MW-22	3/2/2023	REG	<0.0200	U	<0.0200	U	<0.0200	U	<0.0400	U	<0.0200	J	<0.0400	U	**1.07**	J	<5.02	U
MW-24	3/3/2023	REG	**14.7**	J	**0.00457**	J	**0.0146**	J	**0.0295**	J	**0.00181**	J	**0.03130**	J	<4.36	U	**21.1**	
MW-25	3/3/2023	REG	**0.771**	J	<0.00200	U J	**0.0130**	J	**0.00158**	J	<0.00200	U	**0.00158**	J	**1.04**	J	**1.99**	J
MW-26	3/3/2023	REG	**0.0449**	J	<0.00200	U J	**0.00128**	J	**0.00195**	J	<0.00200	U	**0.00195**	J	**3.09**	J	**2.46**	J
MW-29	3/1/2023	REG	**0.0432**		**0.000396**	J	<0.00200	U	**0.000711**	J	<0.00200	U	**0.000711**	J	<4.92	U	**3.54**	J
MW-30	3/1/2023	REG	<0.00200	U J	<0.00200	U	<0.00200	U	**0.00159**	J	<0.00200	U	**0.00159**	J	<4.35	U	<4.35	U
MW-31	3/1/2023	REG	**0.000622**	J	<0.00200	U	<0.00200	U	<0.00400	U	<0.00200	U	<0.00400	U	<4.34	U	<4.34	U
MW-32	3/1/2023	REG	**0.400**		<0.00200	U	**0.000798**	J	**0.00171**	J	**0.00155**	J	**0.00326**	J	<4.62	U	**1.58**	J
MW-34	3/1/2023	REG	<0.00200	U J	<0.00200	U	<0.00200	U	**0.00161**	J	<0.00200	U	**0.00161**	J	<4.98	U	**0.992**	J
MW-34	3/1/2023	FD	**0.00355**	J	<0.00200	U	<0.00200	U	<0.00400	U	**0.000901**	J	**0.000901**	J	**1.14**	J	**1.36**	J
MW-35	3/1/2023	REG	<0.00200	U J	<0.00200	U	<0.00200	U	**0.00160**	J	<0.00200	U	**0.00160**	J	<4.52	U	<4.52	U
MW-36	3/1/2023	REG	<0.00200	U J	<0.00200	U	<0.00200	U	**0.00159**	J	<0.00200	U	**0.00159**	J	<4.81	U	<4.81	U
MW-37	3/1/2023	REG	<0.00200	U	<0.00200	U	<0.00200	U	<0.00400	U	<0.00200	U	<0.00400	U	<4.84	U	<4.84	U
MW-38	3/1/2023	REG	<0.00200	U	<0.00200	U	<0.00200	U	<0.00400	U	<0.00200	U	<0.00400	U	<4.93	U	<4.93	U
MWD-1	3/2/2023	REG	<0.00200	U J	<0.00200	U J	<0.00200	U J	<0.00400	U J	<0.00200	U J	<0.00400	U J	<4.81	U	<4.81	U
MWD-2	3/2/2023	REG	<0.00200	U J	<0.00200	U	<0.00200	U	**0.00159**	J	<0.00200	U	**0.00159**	J	<4.70	U	<4.70	U
MWD-3	3/2/2023	REG	**1.81**	J	<0.00200	U J	**0.00164**	J	**0.000800**	J	**0.00199**	J	**0.00279**	J	<4.62	U	**3.02**	J
MWD-4	3/2/2023	REG	<0.00200	U J	<0.00200	U J	<0.00200	U J	<0.00400	U J	<0.00200	U J	<0.00400	U J	<4.76	U	<4.76	U
MWD-5	3/1/2023	REG	**3.35**		<0.0200	U	<0.0200	U	<0.0400	U	<0.0200	U	<0.0400	U	**4.00**	J	**8.89**	
MWD-6	3/1/2023	REG	**0.00115**	J	<0.00200	U	<0.00200	U	**0.00159**	J	<0.00200	U	**0.00159**	J	<4.67	U	<4.67	U
MWD-7	3/2/2023	REG	<0.00200	U J	<0.00200	U J	<0.00200	U J	<0.00400	U J	<0.00200	U J	<0.00400	U J	<4.81	U	<4.81	U
MWD-8	3/2/2023	REG	<0.00200	U J	<0.00200	U J	<0.00200	U J	<0.00400	U J	<0.00200	U J	<0.00400	U J	<4.52	U	<4.52	U
MWD-11	3/3/2023	REG	<0.00200	U	<0.00200	U J	<0.00200	U	**0.00160**	J	<0.00200	U	**0.0016**	J	<4.59	U	<4.59	U
MWD-12	3/2/2023	REG	**0.0140**	J	**0.000451**	J	**0.0482**	J	**0.00529**	J	**0.00527**	J	**0.0106**	J	**1.70**	J	**0.927**	J
MWD-13	3/2/2023	REG	<0.00200	U J	<0.00200	U J	<0.00200	U J	<0.00400	U J	<0.00200	U J	<0.00400	U J	<4.35	U	<4.35	U
MWD-14	3/3/2023	REG	**0.547**	J	<0.00200	U J	**0.0362**	J	**0.00298**	J	**0.00149**	J	**0.00447**	J	<4.84	U	**1.34**	J
MWD-15	3/3/2023	REG	**0.00332**	J	**0.000483**	J	**0.0111**	J	**0.0245**	J	**0.0158**	J	**0.0403**	J	<4.56	U	**1.29**	J
MWD-17	3/2/2023	REG	**0.0115**	J	<0.0200	U J	<0.0200	U J	<0.0400	U J	<0.0200	U J	<0.0400	U J	<4.60	U	<4.60	U

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Table 5
Spring 2023 BTEX Analytical Data
2023 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

ARCADIS

Location ID	Date Sampled	Analyte	Benzene		Toluene		Ethylbenzene		m,p-Xylenes		o-Xylene		Total Xylenes		DRO		GRO	
		Unit	mg/L															
		NMWQCC Standard	0.005		1		0.7		--		--		0.62		NA		NA	
RW-6	3/2/2023	REG	**0.0318**		<0.0200	U	<0.0200	U	<0.0400	U	<0.0200	U	<0.0400	U	**1.31**	**J**	**1.64**	**J**
RW-7	3/2/2023	REG	<0.00200	U J	<0.00200	U J	<0.00200	U J	<0.00400	U J	<0.00200	U J	<0.00400	U J	<4.55	U	<4.55	U
RW-8	3/3/2023	REG	<0.00200	U	<0.00200	U J	<0.00200	U	**0.00159**	**J**	<0.00200	U	**0.00159**	**J**	<5.03	U	<5.03	U
TMW-1	3/3/2023	REG	<0.00200	U	<0.00200	U J	<0.00200	U	**0.00163**	**J**	<0.00200	U	**0.00163**	**J**	<4.55	U	<4.55	U
TMW-6	3/3/2023	REG	**0.0223**	**J**	<0.00200	U J	<0.00200	U	**0.00161**	**J**	<0.00200	U	**0.00161**	**J**	**2.32**	**J**	**2.01**	**J**
WW-2	3/1/2023	REG	<0.00200	U J	<0.00200	U	<0.00200	U	**0.00159**	**J**	<0.00200	U	**0.00159**	**J**	<4.44	U	<4.44	U
WW-7	3/1/2023	REG	<0.00200	U J	<0.00200	U	<0.00200	U	**0.00160**	**J**	<0.00200	U	**0.00160**	**J**	<4.53	U	<4.53	U

Acronyms and Abbreviations:

bold = detected analytes

BTEX = benzene, toluene, ethylbenzene, and xylene

DRO = diesel-range organics

FD = field duplicate sample

GRO = gasoline-range organics

ID = identification

mg/L = milligrams per liter

NMWQCC = New Mexico Water Quality Control Commission

NA = Not applicable- no standard available

REG = regular field sample

shading = analytes exceeding the NMWQCC Standard

Qualifiers:

J = estimated value

U = nondetect

UJ = The compound was not detected above the reported sample quantitation limit. However, the reportedlimit is approximate and may or may not represent the actual limit of quantitation

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Table 6
Fall 2023 BTEX Analytical Data
2023 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

ARCADIS

Location ID	Date Sampled	Analyte	Benzene		Toluene		Ethylbenzene		m,p-Xylenes		o-Xylene		Total Xylenes		DRO		GRO	
		Unit	mg/L															
		NMWQCC Standard	0.005		1		0.7		---		---		0.62		NA		NA	
MW-11	11/1/2023	REG	**0.552**		<0.0200	U J	<0.0200	U	**0.0731**		**0.00966**	J	**0.0828**		<4.64	U	**3.18**	J
MW-15	10/31/2023	REG	**0.000971**	J	<0.00200	U J	<0.00200	U	**0.00172**	J	**0.000858**	J	**0.00258**	J	<4.81	U	<4.81	U
MW-15	10/31/2023	FD	**0.00118**	J	<0.00200	U J	<0.00200	U	**0.00169**	J	**0.000854**	J	**0.00254**	J	<4.75	U	<4.75	U
MW-16	10/31/2023	REG	**0.00105**	J	<0.00200	U J	<0.00200	U	**0.00169**	J	**0.000858**	J	**0.00255**	J	<4.79	U	<4.79	U
MW-17	11/1/2023	REG	<0.00200	U	<0.00200	U	**0.000812**	J	<0.00400	U	<0.00200	U	<0.00400	U	<4.81	U	<4.81	U
MW-24	11/1/2023	REG	**15.3**		<0.200	U	**0.0834**	J	**0.0751**	J	<0.200	U	**0.0751**	J	<4.66	U	**19.2**	
MW-25	11/1/2023	REG	**0.257**	J	**0.00053**	J	<0.00200	U	**0.00169**	J	**0.000928**	J	**0.00262**	J	<4.72	U	**1.16**	J
MW-26	11/1/2023	REG	**0.198**		<0.0200	U J	<0.0200	U	**0.0174**	J	**0.00857**	J	**0.0260**	J	**3.78**	J	**5.55**	
MW-29	11/1/2023	REG	**0.0105**	J	<0.0200	U J	<0.0200	U	**0.0170**	J	**0.0114**	J	**0.02840**	J	<4.81	U	**3.42**	J
MW-3	10/31/2023	REG	<0.00200	U	<0.00200	U J	<0.00200	U	<0.00400	U	<0.00200	U J	<0.00400	U	<4.84	U	<4.84	U
MW-30	11/1/2023	REG	<0.0200	U	<0.0200	U J	<0.0200	U	<0.0400	U	<0.0200	U J	<0.0400	U	<4.78	U	<4.78	U
MW-32	10/31/2023	REG	**0.211**		<0.00200	U J	<0.00200	U	**0.00170**	J	**0.00106**	J	**0.00276**	J	<4.84	U	**1.73**	J
MW-34	10/31/2023	REG	**0.00102**	J	<0.00200	U J	<0.00200	U	**0.00172**	J	**0.00157**	J	**0.00329**	J	**1.23**	J	**3.03**	J
MW-35	10/31/2023	REG	**0.000968**	J	<0.00200	U J	<0.00200	U	**0.00169**	J	**0.000877**	J	**0.00257**	J	<4.76	U	<4.76	U
MW-38	10/31/2023	REG	**0.00102**	J	<0.00200	U J	<0.00200	U	**0.00180**	J	<0.00200	U J	**0.00180**	J	<4.76	U	<4.76	U
MWD-3	11/2/2023	REG	**1.27**	D J	<0.00200	U	**0.00244**	J	<0.00400	U	<0.00200	U	<0.00400	U	<4.93	U	**2.20**	J
MWD-12	11/1/2023	REG	**0.00973**	J	**0.00385**	J	<0.0200	U	<0.0400	U	<0.0200	U J	<0.0400	U	**1.31**	J	**1.31**	J
MWD-13	11/1/2023	REG	<0.00200	U	<0.00200	U J	<0.00200	U	<0.00400	U	<0.00200	U J	<0.00400	U	<4.82	U	<4.82	U
MWD-14	11/1/2023	REG	**1.53**	D	<0.00200	U	**0.104**		**0.00747**		**0.00135**	J	**0.00882**		<4.89	U	**2.66**	J
MWD-14	11/1/2023	FD	**1.52**	D J	<0.00200	U	**0.0974**	J	**0.00827**	J	**0.00169**	J	**0.00996**	J	<4.75	U	**2.43**	J
MWD-15	11/1/2023	REG	**0.00197**	J	<0.00200	U	**0.00162**	J	**0.00282**	J	**0.00255**	J	**0.00537**	J	<4.72	U	<4.72	U

Acronyms and Abbreviations:

bold = detected analytes

BTEX = benzene, toluene, ethylbenzene, and xylenes

DRO = diesel-range organics

FD = field duplicate sample

GRO = gasoline-range organics

ID = identification

mg/L = milligrams per liter

NMWQCC = New Mexico Water Quality Control Commission

NA = Not applicable- no standard available

REG = regular field sample

shading = analytes exceeding the NMWQCC Standard

Qualifier:

D = sample was diluted

J = The target analyte was positively identified below the quantitation limit and above the detection limit.

U = Analyte was not detected

Table 7
Spring 2023 Metals, Chloride, and Total Dissolved Solids Analytical Data
2023 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

Location ID	Date	Analyte	Dissolved Arsenic		Dissolved Barium		Dissolved Total Chromium		Dissolved Hexavalent Chromium		TDS		Chloride	
		Unit	mg/L											
		NMWQCC Standard	0.01		2		0.05		0.05		1,000		250	
MW-3	3/3/2023	REG	**0.0194**		**0.0640**		**0.00102**	J	<0.0100	U	**721**		**84.9**	
MW-4	3/2/2023	REG	**0.0119**		**0.0852**		<0.00400	U	<0.0100	U	**3,950**		**1,820**	
MW-8	3/1/2023	REG	**0.0327**		**0.0803**		<0.00400	U	<0.0100	U	**2,560**		**776**	
MW-9	3/1/2023	REG	**0.0107**		**8.89**		<0.00400	U	<0.0100	U	**1,140**		**165**	
MW-11	3/3/2023	REG	**0.0334**		**1.64**		**0.000602**	J	**0.00448**	J	**1,020**		**154**	
MW-13	3/1/2023	REG	**0.0159**		**0.115**		<0.00400	U	<0.0100	U	**1,120**		**325**	
MW-14	3/1/2023	REG	**0.0102**		**0.104**		<0.00400	U	<0.0100	U	**1,710**		**468**	
MW-15	3/1/2023	FD	**0.0118**		**0.0469**		<0.00400	U	<0.0100	U J	**4,230**		**1,400**	
MW-15	3/1/2023	REG	**0.0121**		**0.0463**		<0.00400	U	<0.0100	U	**4,280**		**1,440**	
MW-16	3/1/2023	REG	**0.0129**		**0.0478**	J	**0.0979**		**0.0843**		**4,840**		**1,790**	
MW-17	3/2/2023	REG	**0.0134**		**0.131**		<0.00400	U	<0.0100	U	**2,510**		**885**	
MW-22	3/2/2023	REG	**0.0506**		**1.60**		<0.0200	U	<0.0100	U	**10,900**		**5,740**	
MW-24	3/3/2023	REG	**0.0325**		**3.18**		<0.00400	U	**0.0168**		**1,290**		**281**	
MW-25	3/3/2023	REG	**0.0145**	J	**1.27**		<0.0200	U	<0.0100	U	**6,210**		**2,540**	
MW-26	3/3/2023	REG	**0.0662**		**5.06**		<0.00400	U	**0.0209**		**1,140**		**153**	
MW-29	3/1/2023	REG	**0.00262**	J	**8.61**		<0.00400	U	<0.0100	U	**1,370**		**312**	
MW-30	3/1/2023	REG	**0.00830**		**0.328**		<0.00400	U	<0.0100	U	**1,320**		**276**	
MW-31	3/1/2023	REG	**0.0524**		**0.347**		<0.00400	U	<0.0100	U	**1,590**		**442**	
MW-32	3/1/2023	REG	**0.0529**		**2.71**		<0.00400	U	<0.0100	U	**2,940**		**869**	
MW-34	3/1/2023	FD	**0.00106**	J	**4.86**		<0.00400	U	<0.0100	U J	**1,530**		**242**	
MW-34	3/1/2023	REG	**0.000939**	J	**4.69**		<0.00400	U	<0.0100	U	**1,620**		**239**	
MW-35	3/1/2023	REG	**0.00901**		**0.106**		<0.00400	U	<0.0100	U	**934**		**139**	
MW-36	3/1/2023	REG	**0.00903**		**0.119**		<0.00400	U	<0.0100	U	**1,310**		**434**	
MW-37	3/1/2023	REG	**0.00864**		**0.615**		<0.00400	U	<0.0100	U	**1,140**		**326**	
MW-38	3/1/2023	REG	**0.00699**		**0.0948**		<0.00400	U	<0.0100	U	**2,730**		**1,030**	
MWD-1	3/2/2023	REG	**0.0473**		**0.0522**		**0.00324**	J	<0.0100	U	**1,540**		**420**	
MWD-2	3/2/2023	REG	**0.0128**		**0.0437**		<0.00400	U	<0.0100	U	**4,000**		**805**	
MWD-3	3/2/2023	REG	**0.0543**		**13.1**		<0.0200	U	<0.0100	U	**33,900**		**18,400**	
MWD-4	3/2/2023	REG	**0.0127**		**0.0821**		<0.00400	U	<0.0100	U	**1,600**		**93.4**	
MWD-5	3/1/2023	REG	**0.0129**		**8.06**		<0.00400	U	<0.0100	U	**2,180**		**573**	
MWD-6	3/1/2023	REG	**0.00255**	J	**0.832**		<0.00400	U	<0.0100	U	**1,170**		**116**	
MWD-7	3/2/2023	REG	**0.0137**	J	**0.0585**		<0.0200	U	<0.0100	U	**13,100**		**6,170**	
MWD-8	3/2/2023	REG	**0.0237**		**0.0356**		**0.00152**	J	<0.0100	U	**631**		**107**	
MWD-11	3/3/2023	REG	**0.0198**		**0.0416**		**0.00119**	J	<0.0100	U	**713**		**88.4**	
MWD-12	3/2/2023	REG	**0.0416**		**0.320**		<0.0200	U	<0.0100	U	**4,560**		**1,770**	
MWD-13	3/2/2023	REG	**0.0401**		**0.128**		<0.0200	U	<0.0100	U	**10,200**		**5,360**	
MWD-14	3/3/2023	REG	<0.0200	U	**1.25**		<0.0200	U	**0.00543**	J	**3,640**		**761**	
MWD-15	3/3/2023	REG	**0.00933**	J	**2.83**		<0.0200	U	**0.0187**		**2,830**		**1,250**	
MWD-17	3/2/2023	REG	**0.0995**		**0.351**		<0.0200	U	<0.0100	U	**11,200**		**5,510**	
RW-6	3/2/2023	REG	**0.00517**	J	**1.86**		<0.0200	U	<0.0100	U	**3,050**		**1,130**	
RW-7	3/2/2023	REG	**0.0088**	J	**0.0921**		<0.0200	U	<0.0100	U	**10,400**		**4,390**	
RW-8	3/3/2023	REG	**0.152**		**0.184**		<0.0200	U	**0.00733**	J	**3,440**		**1,500**	
TMW-1	3/3/2023	REG	**0.0162**		**1.03**		<0.00400	U	<0.0100	U	**1,150**		**378**	
TMW-6	3/3/2023	REG	**0.0803**		**1.04**		<0.00400	U	**0.0111**		**1,150**		**60.2**	
WW-2	3/1/2023	REG	**0.00137**	J	**3.64**		<0.00400	U	<0.0100	U	**1,390**		**721**	
WW-7	3/1/2023	REG	**0.000764**	J	**0.641**		<0.00400	U	<0.0100	U	**715**		**252**	

Acronyms and Abbreviations:
bold = detected analytes
FD = field duplicate sample
ID = identification
mg/L = milligrams per liter
NMWQCC = New Mexico Water Quality Control Commission
REG = regular field sample
TDS = total dissolved solids
shading = analytes exceeding the NMWQCC Standard
NA = Not applicable

Qualifiers:
J = estimated value
U = nondetect

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Table 8
Fall 2023 Metals, Chloride, and Total Dissolved Solids Analytical Data
2023 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

Location ID	Date	Analyte	Dissolved Arsenic		Dissolved Barium		Dissolved Total Chromium		Dissolved Hexavalent Chromium		TDS		Chloride	
		Unit	mg/L											
		NMWQCC Standard	0.01		2		0.05		0.05		1,000		250	
MW-11	11/1/2023	REG	**0.0332**		**1.69**		<0.0200	U	--		**1,210**		--	
MW-15	10/31/2023	FD	**0.0149**	**J**	**0.0481**		<0.0200	U	<0.0100	U	**4,730**		**1,460**	
MW-15	10/31/2023	REG	**0.0138**	**J**	**0.0433**		<0.0200	U	<0.0100	U	**4,660**		**1,380**	
MW-16	10/31/2023	REG	**0.0147**	**J**	**0.0387**		**0.088**		**0.0742**		**4,480**		**1,750**	
MW-17	11/1/2023	REG	**0.00839**		**0.100**		<0.00400	U	<0.0100	U	**3,270**		**751**	
MW-24	11/1/2023	REG	**0.0306**		**3.32**		<0.0200	U	<0.0100	U	**1,560**		**241**	
MW-25	11/1/2023	REG	**0.00778**	**J**	**1.17**		<0.0200	U	<0.0100	U	**6,660**		**2,030**	
MW-26	11/1/2023	REG	**0.0586**		**4.76**		<0.0200	U	<0.0100	U	**1,300**		**133**	
MW-29	11/1/2023	REG	**0.00286**	**J**	**6.71**		<0.00400	U	**0.0115**		**1,650**		**315**	
MW-3	10/31/2023	REG	**0.0189**	**J**	**0.0509**		<0.0200	U	<0.0100	U	**721**		**93.6**	
MW-30	11/1/2023	REG	**0.0108**	**J**	**0.312**		<0.0200	U	<0.0100	U	**1,540**		**286**	
MW-32	10/31/2023	REG	**0.0538**		**2.80**		<0.0200	U	**0.0110**		**3,370**		**871**	
MW-34	10/31/2023	REG	<0.0200	U	**4.60**		<0.0200	U	**0.0105**		**1,750**		**238**	
MW-35	10/31/2023	REG	**0.0094**	J	**0.107**		<0.0200	U	<0.0100	U	**940**		**149**	
MW-38	10/31/2023	REG	**0.00691**	J	**0.0922**		<0.0200	U	<0.0100	U	**3,000**		**1,050**	
MWD-3	11/2/2023	REG	**0.0406**		**3.12**		**0.000899**	**J**	<0.0100	U	**32,700**		**18,100**	
MWD-12	11/1/2023	REG	**0.0462**		**0.317**		<0.0200	U	<0.0100	U	**4,780**		**1,260**	
MWD-13	11/1/2023	REG	**0.0469**		**0.133**		**0.0035**	**J**	<0.0100	U	**10,400**		**386**	
MWD-14	11/1/2023	FD	<0.0200	U	**0.871**		<0.0200	**U**	<0.0100	U	**4,260**		**446**	
MWD-14	11/1/2023	REG	<0.00400	U	**0.689**		**0.000775**	**J**	<0.0100	U	**4,220**		**474**	
MWD-15	11/1/2023	REG	**0.00647**	**J**	**2.42**		<0.0200	U	<0.0100	U	**2,860**		**1,010**	

Acronyms and Abbreviations:
bold = detected analytes
FD = field duplicate sample
D = sample was diluted
ID = identification
mg/L = milligrams per liter
NMWQCC = New Mexico Water Quality Control Commission
REG = regular field sample
TDS = total dissolved solids
** Hexavalent chromium concentration at this well is believed to be erroneous and this data has not been used for analysis
shading = analytes exceeding the NMWQCC Standard
-- = Not Available or Not Analyzed

Qualifiers:
J = The target analyte was positively identified below the quantitation limit and above the detection limit.
U = Analyte was not detected.

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Received by OCD: 3/13/2024 8:36:42 PM

Table 9
LNAPL Transmissivity Test Summary
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

Well ID	Test Date	Time Cut (minutes)	Initial LNAPL Thickness (feet)	Test Duration (minutes)	Final LNAPL Thickness (feet)	Percent Recovery	LNAPL Transmissivity (ft^2/day)										
							Bouwer and Rice	Cooper and Jacob/Jacob and Lohman	Cooper, Bredehoeft, and Papadopoulos	2023 Arithmetic Mean	*2022 Arithmetic Mean* [b]	*2021 Arithmetic Mean* [b]	*2020 Arithmetic Mean* [b]	*2019 Arithmetic Mean* [b]	*2018 Arithmetic Mean* [b]	*2017 Arithmetic Mean* [b]	*2016 Arithmetic Mean* [b]
MW-1	12/21/2023	12	1.39	132	1.36	98%	0.57	0.64	0.69	0.63	---	---	---	0.74	0.55 **1.8**	**1.8**	**3.0**
MW-2	11/2/2023	45	1.47	76	1.33	90%	5.29	6.33	5.04	**5.6**	---	**4.9**	---	**1.2**	**5.4** **3.4**	**1.6**	---
MW-5	---[a]	---	---	---	---	---	---	---	---	---	---	0.16	---	---	0.35 0.21	0.16	0.3
MW-10	12/20/2023	15.0	1.8	2838.0	1.2	69%	0.1	0.2	0.1	0.1	---	---	---	0.03	---	---	---
MW-12	---[a]	---	---	---	---	---	---	---	---	---	---	**1.3**	---	---	0.043 **1.4**	---	---
MW-19	11/3/2023	8	1.01	119	0.41	41%	0.81	1.09	1.06	**1.0**	---	0.22	---	0.15	0.0053 **3.5**	0.013	---
MW-20	11/2/2023	17	3.74	1067	2.48	66%	0.27	0.25	0.25	0.3	---	0.64	---	**2.4**	**2.9** **1.7**	**3.0**	**2.8**
MW-21	---[a]	---	---	---	---	---	---	---	---	---	---	0.12	---	---	0.47 0.38	0.0047	---
MW-27	---[a]	---	---	---	---	---	---	---	---	---	**1.3**	**0.95**	0.43	**2.9**	0.57	**1.1**	---
MW-28	12/20/2023	34	1.52	1205	1.5	99%	**2.7**	**3.9**	**4.2**	**3.6**	**5.6**	0.27	**3.0**	**1.6**	**6.2** **3.3**	**4.6**	**5.9**
RW-1	12/20/2023	20	1.64	1149	1.52	93%	1.3	1.7	1.2	**1.4**	---	**1.0**	---	**1.2**	**1.7** **2.0**	**2.2**	**1.2**
RW-2	12/21/2023	19	1.41	245	1.35	96%	**3.8**	**5.8**	**5.6**	**5.1**	**10.8**	---	**6.8**	**4.4**	**8.1** **8.6**	**5.4**	**4.9**
RW-4	12/20/2023	17	1.54	354	1.38	90%	3.4	3.9	3.5	**3.6**	---	0.61	---	**3.6**	**3.1** **1.6**	**3.3**	**2.5**
RW-5	12/21/2023	10.0	0.5	54.0	0.6	118%	1.2	5.3	6.0	**1.2**[c]	---	---	---	---	**4.1**	---	---
TMW-2	12/20/2023	8.0	0.6	1472.0	0.5	86%	0.3	0.9	0.9	0.7	---	---	---	---	**1.9**	---	---

Notes:

[a]In accordance with the work plan, LNAPL baildown testing was not conducted.

[b]Reporting arithmetic mean in 2022 following technical guidance - previously reported geometric mean

[c]LNAPL Transmissivity results are based on Bouwer-Rice solution alone, as other models are not useful when removal period is not instantaenous, i.e., removal period > 100th of entire test duration (ASTM, 2013)

Acronyms and Abbreviations:

bold = values greater than the Interstate Technology & Regulatory Commission (ITRC [2009]) recommended threshold for practical recoverability of LNAPL (0.8 ft^2/day)

ft^2/day = square foot (feet) per day

LNAPL = light nonaqueous phase liquid

--- = data not available

% = percent

References

ASTM, 2013. E2856 – 13: Standard Guide for Estimation of LNAPL Transmissivity. ASTM Committee E50 on Environmental Assessment, Risk Management and Corrective Action. April 1.

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FIGURES

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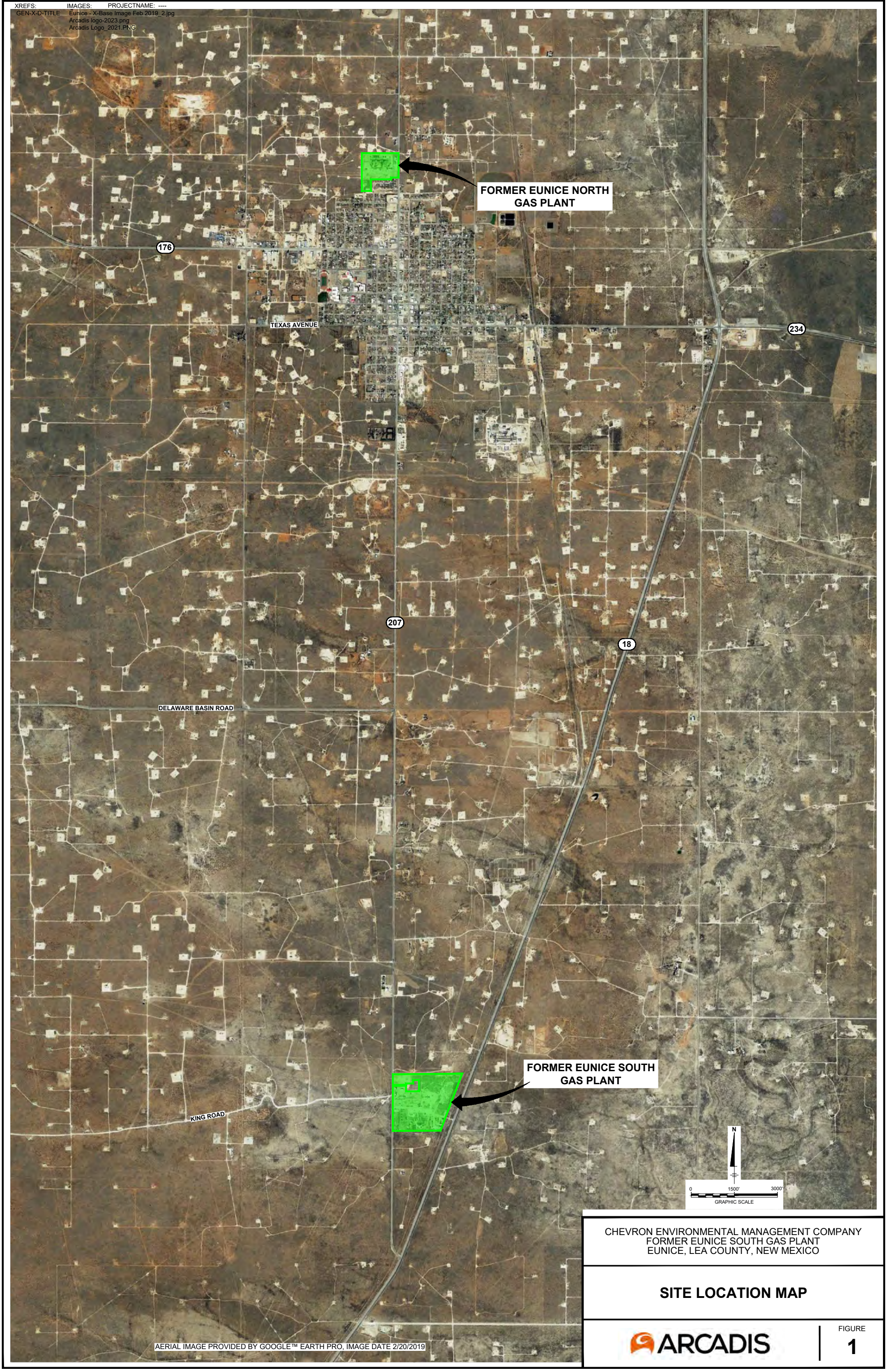

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER EUNICE SOUTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO

SITE LOCATION MAP

ARCADIS

FIGURE
1

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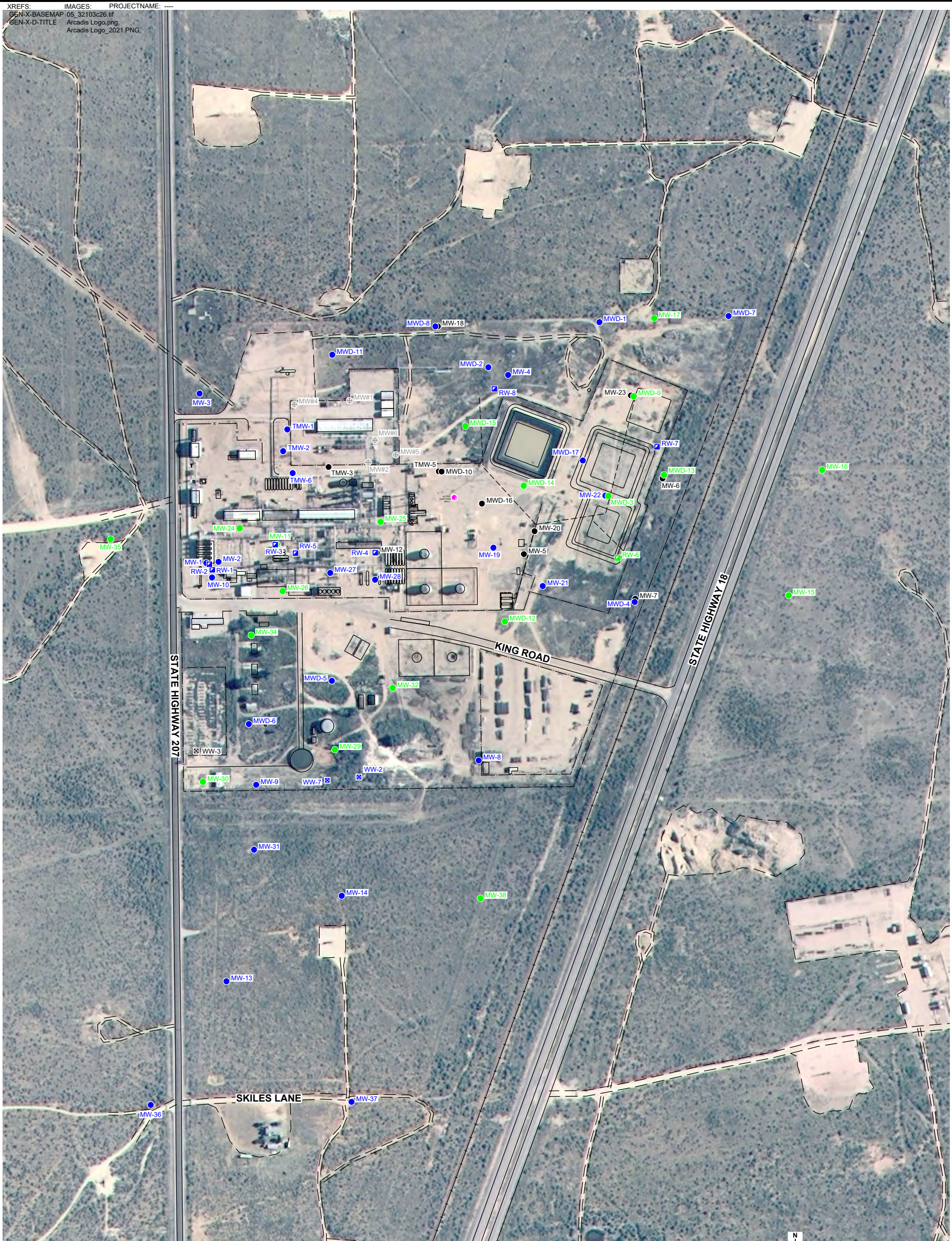

LEGEND

- MONITORING WELLS
- TARGA'S ONSITE INJECTION WELL
- RECOVERY WELL
- INACTIVE WATER WELL
- OFFSITE PROPERTY WELL (NOT SAMPLED)

LOCATIONS IN **BLUE** ARE SAMPLED ANNUALLY
LOCATIONS IN **GREEN** ARE SAMPLED SEMIANNUALLY
LOCATIONS IN **BLACK** ARE NOT SAMPLED AT THIS TIME

NOTES:

1. MAP PROJECTED TO NAD83 NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, FEET.
2. AERIAL IMAGERY PROVIDED BY USGS EARTH EXPLORER, ACCESSED APRIL 2016.
3. WELLS SURVEYED 1998, 2000, 2001, 2002, AND 2006 BY PIPER SURVEYING COMPANY. NAD27 NM S.P. EAST, FEET.
4. SITE FEATURES PROVIDED BY CRA

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER EUNICE SOUTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO

WELL LOCATION AND MONITORING PLAN MAP

ARCADIS

FIGURE
2

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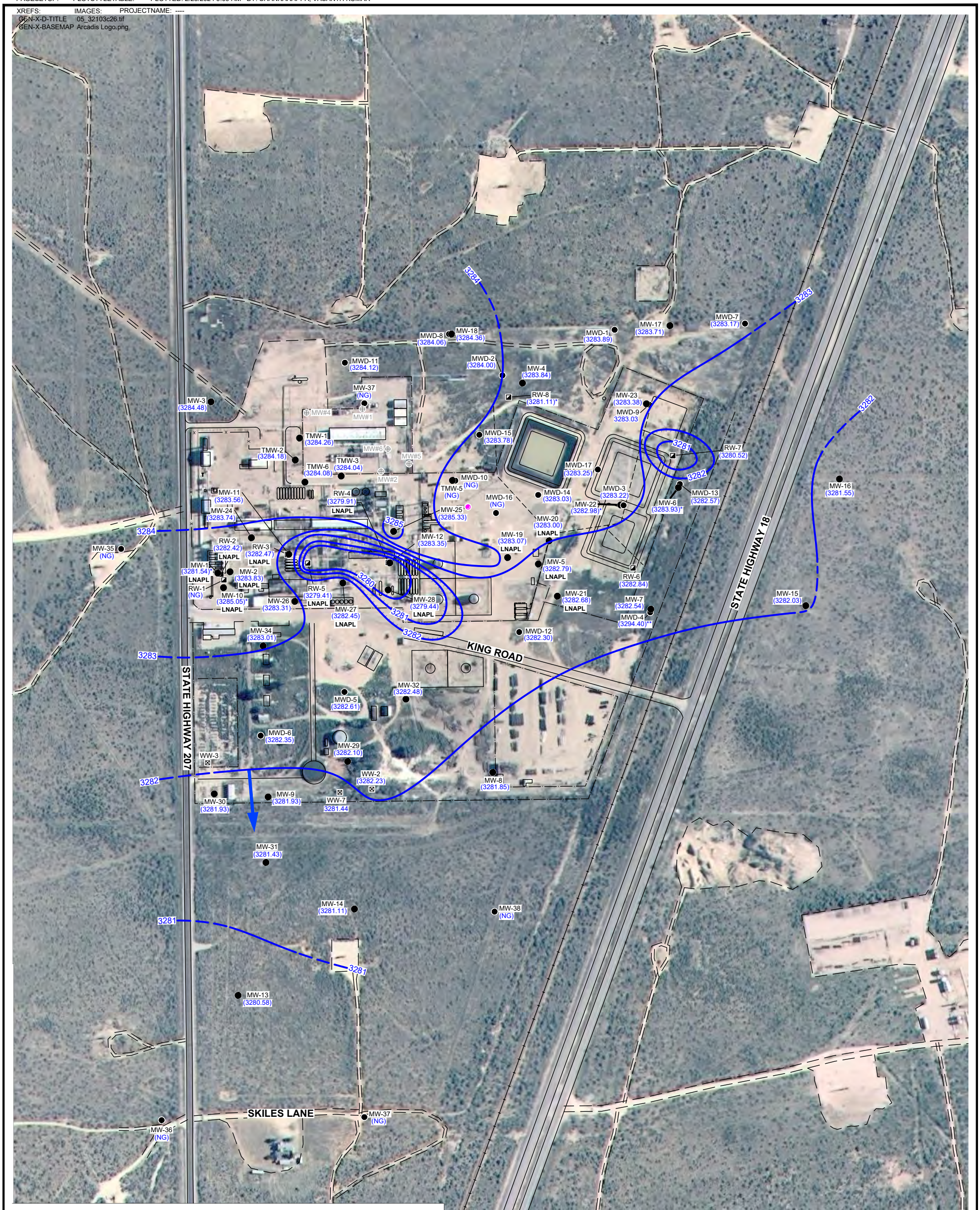

LEGEND

- MONITORING WELLS
- TARGA'S ONSITE INJECTION WELL
- RECOVERY WELL
- INACTIVE WATER WELL
- ⊕ OFFSITE PROPERTY WELL (NOT SAMPLED)
- 3284.48 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (FT AMSL)
- 3284 POTENTIOMETRIC CONTOUR (FT AMSL; DASHED WHERE INFERRED)
- NG NOT GAUGED THIS EVENT
- **LNAPL** LIGHT NON-AQUEOUS PHASE LIQUID PRESENT
- * NOT USED FOR CONTOURING
- ** ELEVATION IS INCONSISTENT FROM HISTORICAL DATA AND CAN'T BE CHECKED USING FIELD NOTES
- GROUNDWATER FLOW DIRECTION

NOTES:

1. MAP PROJECTED TO NAD83 NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, FEET.
2. AERIAL IMAGERY PROVIDED BY USGS EARTH EXPLORER, ACCESSED APRIL 2016.
3. WELLS SURVEYED 1998, 2000, 2001, 2002, AND 2006 BY PIPER SURVEYING COMPANY. NAD27 NG S.P. EAST, FEET.
4. SITE FEATURES PROVIDED BY CRA.
5. WELLS GAUGED FEBRUARY 28, 2023.
6. WHERE LNAPL IS PRESENT, GROUNDWATER ELEVATION WAS CORRECTED BASED OFF ESTIMATED LNAPL SPECIFIC GRAVITY OF 0.72-0.82.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER EUNICE SOUTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO

POTENTIOMETRIC SURFACE MAP SPRING 2023

ARCADIS

FIGURE 3

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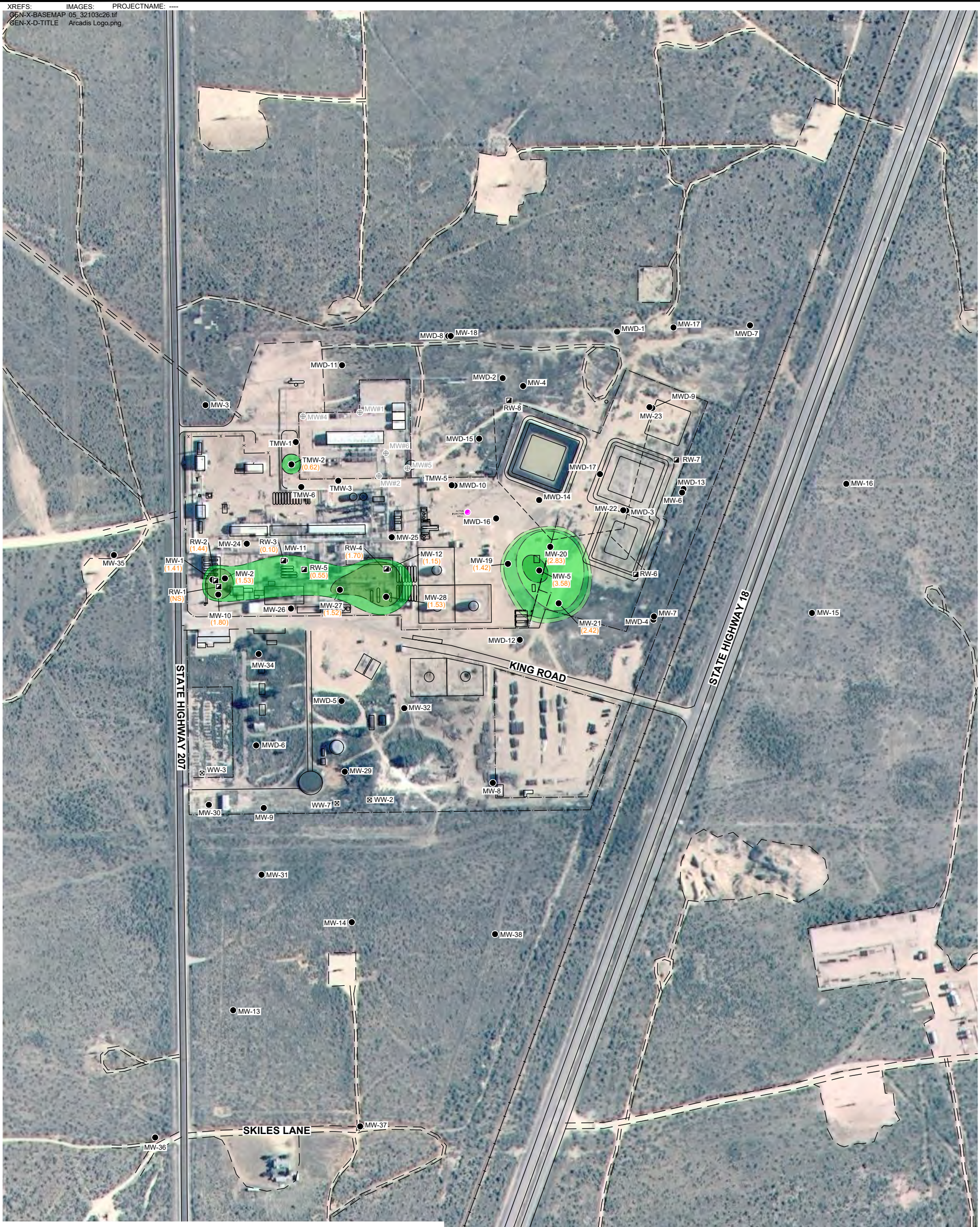

LEGEND

- MONITORING WELL
- TARGA'S ONSITE INJECTION WELL
- RECOVERY WELL
- INACTIVE WATER WELL
- OFFSITE PROPERTY WELL (NOT SAMPLED)
- 3.58 LNAPL THICKNESS FEBRUARY 2023 (FEET)
- LNAPL LIGHT NON-AQUEOUS PHASE LIQUID

LNAPL THICKNESS CONTOUR (FEET; DASHED WHERE INFERRED)

- >0
- >1
- >2
- >3

NOTES:

1. MAP PROJECTED TO NAD83 NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, FEET.
2. AERIAL IMAGERY PROVIDED BY USGS EARTH EXPLORER, ACCESSED APRIL 2016.
3. WELLS SURVEYED 1998, 2000, 2001, 2002, AND 2006 BY PIPER SURVEYING COMPANY. NAD27 NG S.P. EAST, FEET.
4. SITE FEATURES PROVIDED BY CRA
5. WELLS GAUGED FEBRUARY 28, 2023.
6. ONLY DATA COLLECTED IN 2023 WERE POSTED. CONTOURS ARE BASED ON HISTORICAL DATA DATING BACK TO 2018 AND 2022, WHERE CURRENT DATA ARE NOT AVAILABLE.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER EUNICE SOUTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO

LNAPL DISTRIBUTION MAP SPRING 2023

ARCADIS

FIGURE 4

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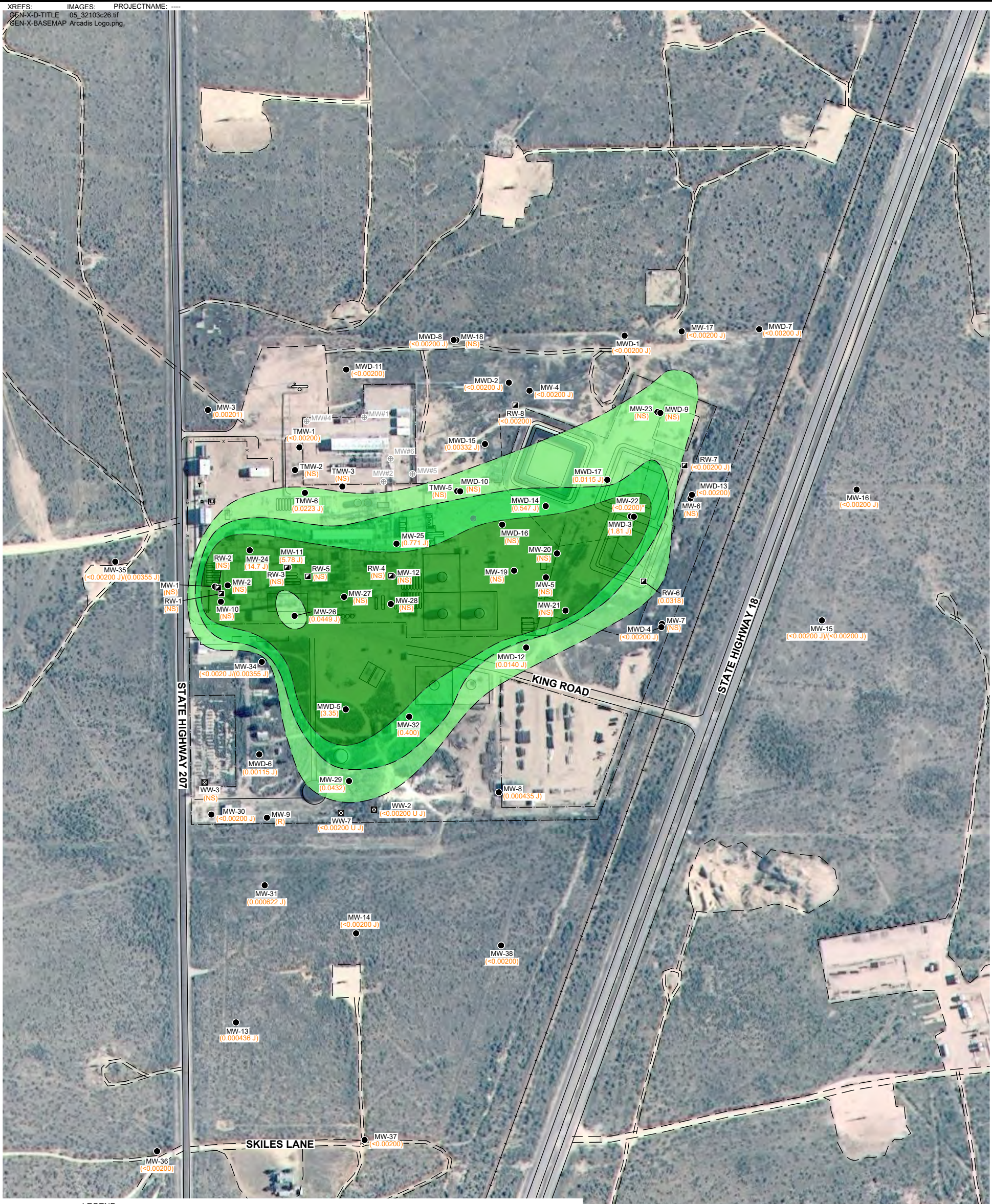

LEGEND

- MONITORING WELL
- TARGA'S ONSITE INJECTION WELL
- RECOVERY WELL
- INACTIVE WATER WELL
- OFFSITE PROPERTY WELL (NOT SAMPLED)
- (<0.00200)/(<0.00200) BENZENE CONCENTRATION/DUPLICATE RESULT IN MILLIGRAMS PER LITER (mg/L)
- (NS) NOT SAMPLED
- <0.00200 NOT DETECTED ABOVE METHOD QUANTITATION LIMIT (MQL)
- * WELL NOT USED FOR CONTOURING
- R THE SAMPLE RESULTS ARE REJECTED
- J THE TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTITATION LIMIT AND ABOVE THE DETECTION LIMIT
- U ANALYTE WAS NOT DETECTED

BENZENE ISOCONCENTRATION CONTOUR (mg/L; DASHED WHERE INFERRED)

- >0.005
- >0.1
- >1.0

0 200' 400'
GRAPHIC SCALE

NOTES:

1. MAP PROJECTED TO NAD83 NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, FEET.
2. AERIAL IMAGERY PROVIDED BY USGS EARTH EXPLORER, ACCESSED APRIL 2016.
3. WELLS SURVEYED 1998, 2000, 2001, 2002, AND 2006 BY PIPER SURVEYING COMPANY. NAD27 NM S.P. EAST, FEET.
4. SITE FEATURES PROVIDED BY CRA
5. WELLS SAMPLED MARCH 1, 2 AND 3, 2023.
6. ONLY DATA COLLECTED IN 2023 WERE POSTED. CONTOURS ARE BASED ON HISTORICAL DATA DATING BACK TO 2018 AND 2022, WHERE CURRENT DATA ARE NOT AVAILABLE.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER EUNICE SOUTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO

BENZENE ISOCONCENTRATION MAP SPRING 2023

ARCADIS

FIGURE 5

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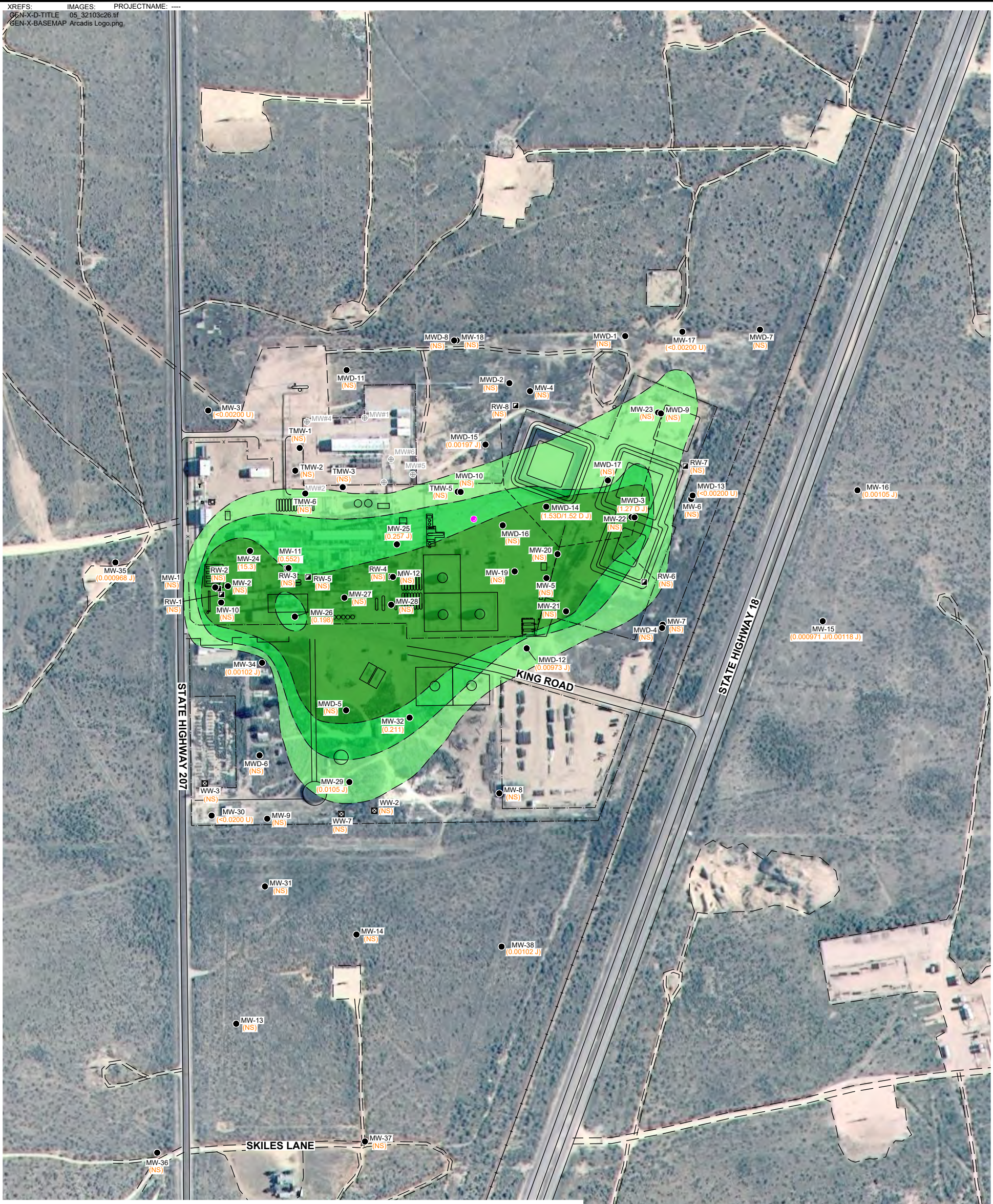

LEGEND

- MONITORING WELL
- TARGA'S ONSITE INJECTION WELL
- RECOVERY WELL
- INACTIVE WATER WELL
- OFFSITE PROPERTY WELL (NOT SAMPLED)
- (15.3) BENZENE CONCENTRATION RESULT IN MILLIGRAMS PER LITER (mg/L)
- (NS) NOT SAMPLED
- <0.00200 NOT DETECTED ABOVE METHOD QUANTITATION LIMIT (MQL)
- J THE TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTITATION LIMIT AND ABOVE THE DETECTION LIMIT
- U ANALYTE WAS NOT DETECTED

BENZENE ISOCONCENTRATION CONTOUR (mg/L; DASHED WHERE INFERRED)

- >0.005
- >0.1
- >1.0

NOTES:

1. MAP PROJECTED TO NAD83 NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, FEET.
2. AERIAL IMAGERY PROVIDED BY USGS EARTH EXPLORER, ACCESSED APRIL 2016.
3. WELLS SURVEYED 1998, 2000, 2001, 2002, AND 2006 BY PIPER SURVEYING COMPANY. NAD27 NM S.P. EAST, FEET.
4. SITE FEATURES PROVIDED BY CRA
5. WELLS SAMPLED OCTOBER 31 AND NOVEMBER 1, 2023.
6. ONLY DATA COLLECTED IN 2023 WERE POSTED. CONTOURS ARE BASED ON HISTORICAL DATA DATING BACK TO 2018 AND 2022, WHERE CURRENT DATA ARE NOT AVAILABLE.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER EUNICE SOUTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO

BENZENE ISOCONCENTRATION MAP FALL 2023

ARCADIS

FIGURE 6

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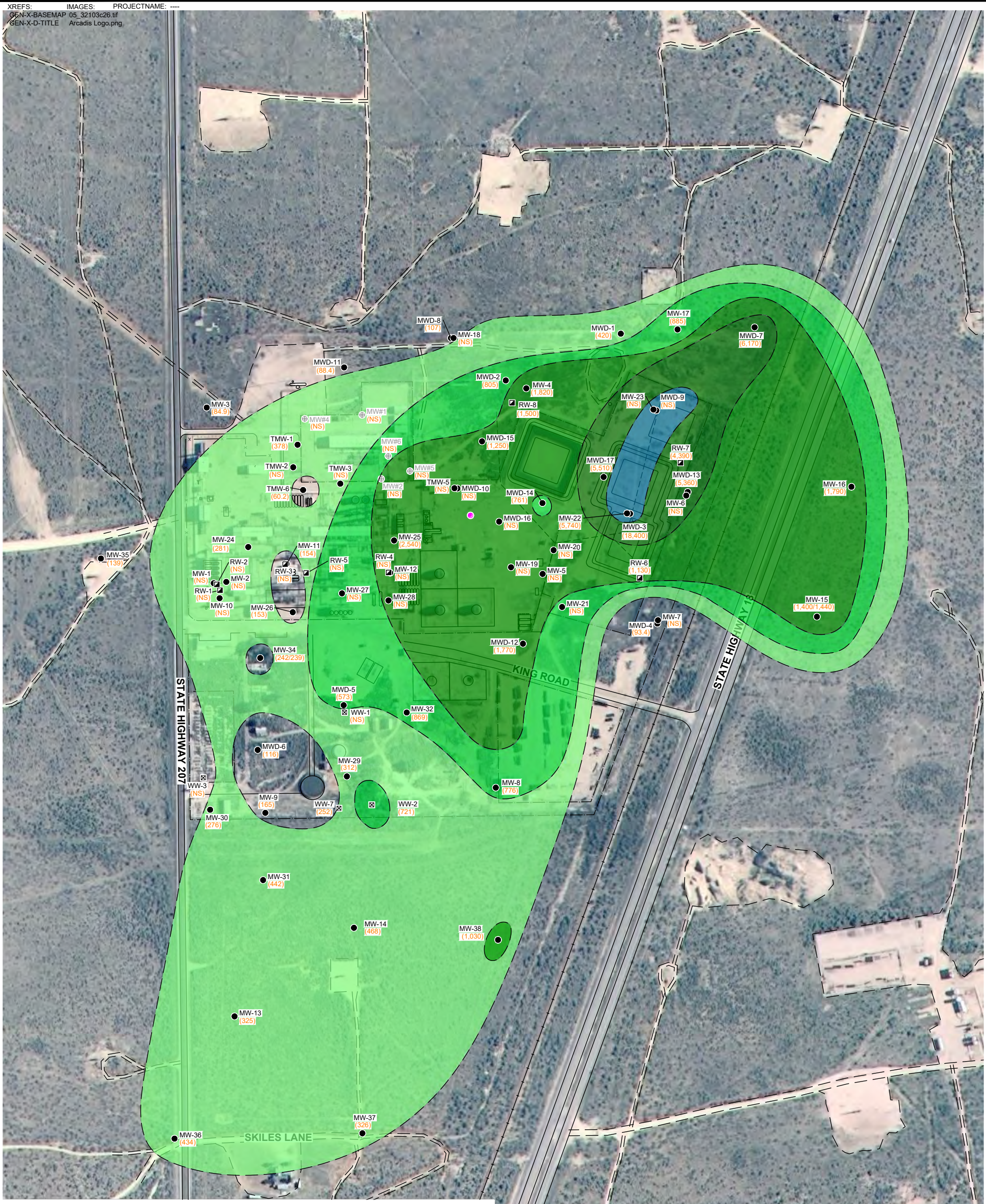

LEGEND

- MONITORING WELL
- TARGA'S ONSITE INJECTION WELL
- RECOVERY WELL
- INACTIVE WATER WELL
- OFFSITE PROPERTY WELL (NOT SAMPLED)
- (18,400) CHLORIDE CONCENTRATION/DUPLICATE RESULT IN MILLIGRAMS PER LITER (mg/L)
- NS NOT SAMPLED

CHLORIDE ISOCONCENTRATION CONTOUR (mg/L; DASHED WHERE INFERRED)

- >250
- >500
- >1,000
- >3,000
- >10,000

NOTES:

1. MAP PROJECTED TO NAD83 NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, FEET.
2. AERIAL IMAGERY PROVIDED BY USGS EARTH EXPLORER, ACCESSED APRIL 2016.
3. WELLS SURVEYED 1998, 2000, 2001, 2002, AND 2006 BY PIPER SURVEYING COMPANY. NAD27 NM S.P. EAST, FEET.
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6. ONLY DATA COLLECTED IN 2023 WERE POSTED. CONTOURS ARE BASED ON HISTORICAL DATA DATING BACK TO 2018 AND 2022, WHERE CURRENT DATA ARE NOT AVAILABLE.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER EUNICE SOUTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO

CHLORIDE ISOCONCENTRATION MAP SPRING 2023

ARCADIS

FIGURE 7

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XREFS: IMAGES: PROJECTNAME: ----
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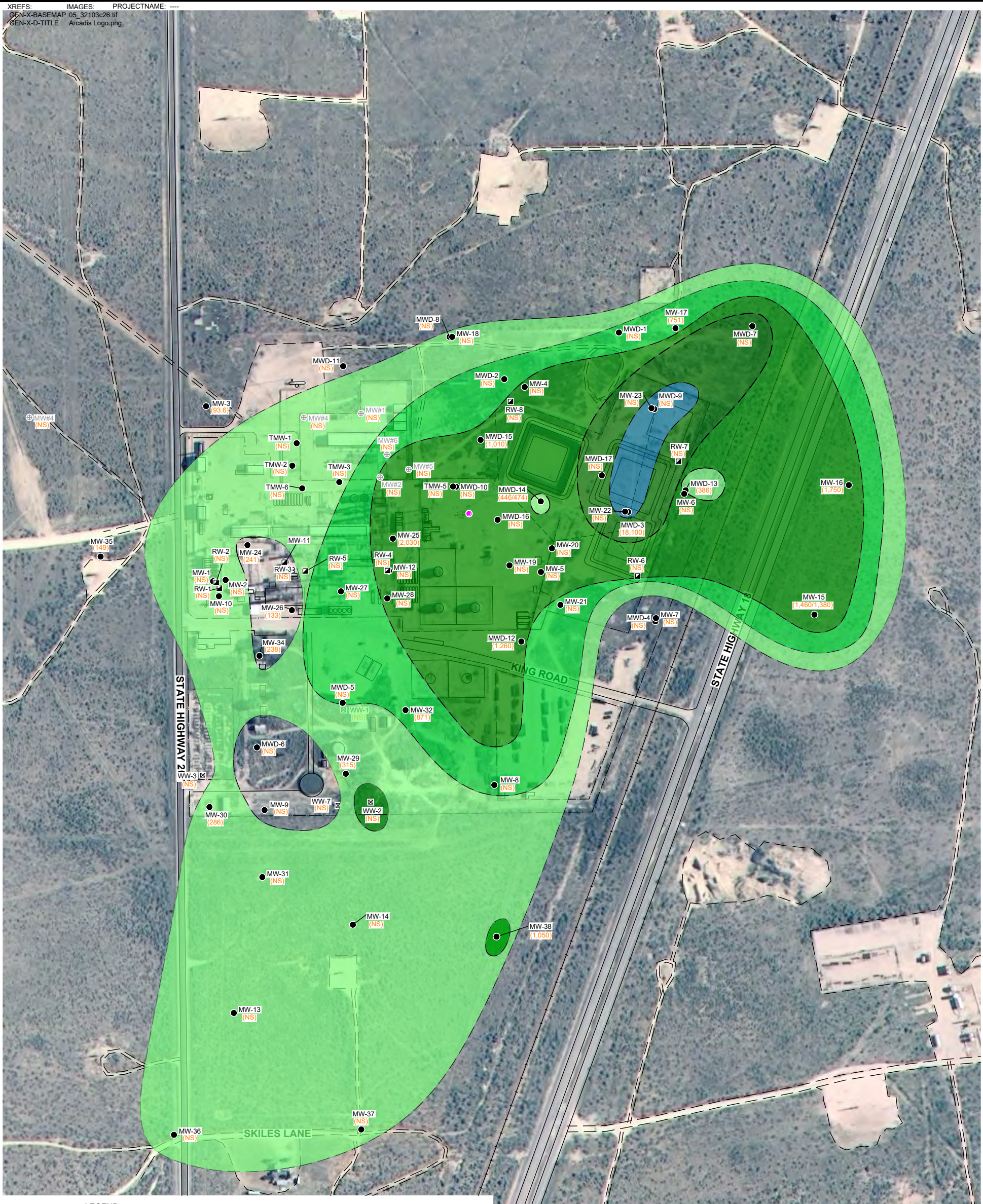

LEGEND

- MONITORING WELL
- TARGA'S ONSITE INJECTION WELL
- RECOVERY WELL
- INACTIVE WATER WELL
- OFFSITE PROPERTY WELL (NOT SAMPLED)
- (18,100) CHLORIDE CONCENTRATION IN MILLIGRAMS PER LITER (mg/L)
- NS NOT SAMPLED

CHLORIDE ISOCONCENTRATION CONTOUR (mg/L; DASHED WHERE INFERRED)

- >250
- >500
- >1,000
- >3,000
- >10,000

NOTES:

1. MAP PROJECTED TO NAD83 NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, FEET.
2. AERIAL IMAGERY PROVIDED BY USGS EARTH EXPLORER, ACCESSED APRIL 2016.
3. WELLS SURVEYED 1998, 2000, 2001, 2002, AND 2006 BY PIPER SURVEYING COMPANY. NAD27 NM S.P. EAST, FEET.
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CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER EUNICE SOUTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO

CHLORIDE ISOCONCENTRATION MAP FALL 2023

ARCADIS

FIGURE 8

APPENDIX A

Site Background Information

SITE AND REGULATORY BACKGROUND INFORMATION

The Site was originally constructed in the 1940s by Skelly Oil Company and attained by Texaco Exploration and Production, Inc. (Texaco, a legacy Chevron company). It was operated as a turbo expander-type natural gas processing plant for the extraction of natural gas liquids until the 1980s when operations were halted. Various structures remain on site including two compressors, a compressor building, a cooling tower, former office buildings, aboveground storage tanks, sumps, and piping. On July 1, 1998, operations were transferred to Versado Gas Processors, LLC, a limited liability partnership originally between Chevron and Dynegy Midstream Services (Dynegy). Dynegy was subsequently purchased by Targa, and Chevron divested its interest to Targa in 2016. The plant is currently owned and operated solely by Targa. Current site infrastructure associated with plant activities includes one hydrogen sulfide gas injection well. Current remedial infrastructure includes a groundwater extraction system and three bioventing units.

In April 1980, the New Mexico Energy and Minerals Department, Oil Conservation Division (NMOCD) requested a discharge plan to cover all effluent discharges at the Site. The original discharge plan (GW-003; Attachment 1) was approved by the NMOCD in March 1981 for 5 years and has been continuously renewed every 5 years. The most recent application was approved by the NMOCD on January 11, 2012. CEMC submitted a renewal application to the NMOCD on November 11, 2015; however, approval has not yet been received.

In April 1996, the NMOCD requested a work plan from Texaco to address specific areas of concern. The response resulted in a modification of the existing discharge plan along with a comprehensive Site investigation work plan. After the comprehensive site investigation was completed in 1996 and 1997, several areas of concern were identified. Constituents of concern (COCs) were identified to include light nonaqueous phase liquid (LNAPL) on the west and east sides of the plant, dissolved-phase hydrocarbons (on site and off site), chloride (on site and off site), total dissolved solids (TDS) across the site, and dissolved-phase metals (on site and off site). Specifically, dissolved metals listed in the discharge plan include arsenic, barium, and chromium (total and hexavalent).

In 2004, the Site was approved by the New Mexico Office of the State Engineer (NMOSE) for the appropriation of 208 acre-feet (ac-ft) per year from five on-site recovery wells. Groundwater usage was granted on a per-well basis under the following NMOSE well permits:

- CP-009-S: MWD-9, 32 ac-ft
- CP-231-S: RW-7, 48 ac-ft
- CP-233-S: RW-6, 48 ac-ft
- CP-243-S: MWD-3, 32 ac-ft
- CP-244-S: RW-8, 48 ac-ft.

CEMC provides quarterly volume totals to the NMOSE for wells MWD-3 and MWD-9, which are the only wells currently operating.

SAMPLING METHODOLOGY

Prior to 2016, groundwater sampling at the Site was completed using low-flow methodology. In April 2016, CEMC submitted a request to change the method to no-purge sampling using a HydraSleeve™ (HS). This change was approved by the NMOCD via email on March 25, 2016.

Starting with the March 2016 monitoring event, HS samplers have been used at all wells sampled across the Site. A comparison of previous sampling method results (2014 and 2015) and HS results (2016 and 2017) was performed for the primary COCs at the Site (benzene and chloride) and is presented in Appendix G of the 2017 Annual Groundwater Monitoring Report (Arcadis 2018). The comparison showed results from HS sampling were comparable to low-flow results (within an acceptable range of +/- 30 percent) and the change in sample method would not negatively impact trend evaluation or system performance evaluation. One anomaly was observed as part of the sampling method comparison; HS results at well TMW-6 did not follow historical trends. Therefore, this well was vertically profiled at three discreet intervals (HS samples were taken from three different vertical locations to evaluate variability) during the spring 2018 event and the most conservative results for site COCs were used to determine the optimal HS sample interval going forward.

HISTORICAL HYDROCARBON AND CHLORIDE REMEDIATION

Historical project information indicates that four remediation systems have operated at the Site since December 2000 including:

- Soil Vapor Extraction (SVE) system - West Side (April 2004-October 2006).
- LNAPL recovery - West Side (2004-October 2006, 2011 interim, August 2012 to date).
- LNAPL recovery - East Side (May 2003-January 2011).
- Chloride and total dissolved solids (TDS) groundwater recovery system – East Side (2004- 2010, September 2012 through 2013).

The following sections below summarize the installations, operations and recovery of each of the four remediation systems.

Soil Extraction System (West Side)

A soil vapor extraction system (SVE) was installed on the west side of the Site in April 2004. The SVE consisted of a trailer-mounted thermal oxidizer which extracted hydrocarbon vapors from recovery wells RW-2, RW-3, MW-4, RW-5 and monitor well MW-28. In September 2005, seven additional wells (MW-1, MW-2, MW-10, MW-24, MW-25, MW-26 and MW-27) were connected to the SVE system. The operation of the SVE was suspended in mid-October 2006 due to Site demolition activities. Records indicate a total of 300,560 pounds of hydrocarbons were recovered and treated by the SVE system while in operation.

LNAPL Recovery (West Side)

LNAPL Recovery System 2004-2006

An LNAPL recovery system was installed in 2004 on the West Side of the Site. This LNAPL system consisted of five Xitech skimmer product recovery pumps installed in West Side wells RW-2, RW-3, RW-4, RW-5 and MW-28, solar panels, a nitrogen activation system, and storage tanks. The operation of the Xitech skimmer pumps was suspended in mid-October 2006 due to Site demolition activities. Records indicate a total of 5,327 gallons of hydrocarbons were recovered from the West Side wells while the system was in operation.

Manual Recovery 2011, 2012-15

In April 2011, GHD initiated manual recovery efforts near the former West Side jet skid area as an interim measure. Weekly LNAPL abatement activities were performed in five accessible wells (MW- 1, MW-2, MW-10, RW-1 and RW-2) from April 13th through September 27th, 2011. Manual recovery remediation efforts ceased temporarily in September 2011 due to installation on Site of Targa's gas injection well. A total of 324 gallons of LNAPL and 23 gallons of water were manually recovered from the West Side wells during the six month period in 2011.

Biweekly LNAPL abatement activities were performed in seven accessible wells (West Side wells MW-1, MW-2, MW-10, RW-1 and RW-2; East Side wells MW-5 and MW-20,) from August 2012 through October 2013. Manual bailing was temporarily suspended due to LNAPL storage tank replacement by Targa in late October 2013, and was resumed in December 2013. In order to observe the effectiveness of LNAPL recovery from additional West Side LNAPL wells, manual LNAPL recovery was initiated at eight additional wells on October 27, 2014 (MW-12, MW-19, MW- 27, MW-28, TMW-2, RW-3, RW-4, RW-5). Manual bailing of wells was suspended in August 2015 as mobile dual phase extraction (MDPE) methods were initiated. A total of 135 gallons of LNAPL were recovered using manual bailing methods from the West Side wells during 2015.

A pilot test was performed in April 2015 of MDPE recovery methods of LNAPL, associated vapors and hydrocarbon and chloride impacted groundwater at West Side wells RW-1, MW-27 and MW-28. Based on evaluation of the results of this pilot test additional MDPE events were performed in August, October and December 2015. During the four 2015 MDPE events at these three wells an approximate total of 1,185 gallons of LNAPL and associated vapors (liquid equivalent) was recovered, and a total of 22,874 gallons of hydrocarbon and chloride impacted groundwater was also recovered for off-site disposal. Continuation of LNAPL recovery using MDPE methods at these wells in 2016 is currently under consideration.

Records indicate a total of 7,554 gallons of LNAPL and 22,898 gallons of affected groundwater have been recovered using skimmer pump, manual bailing and MDPE methods from the West Side LNAPL wells since 2004.

LNAPL Recovery (East Side)

An LNAPL recovery system was installed in May 2003 on the East Side of the Site. This LNAPL system consisted of Ferret Separation Pumps in monitor wells MW-5 and MW-20. The operation of the Ferret pumps was suspended after December 2008. Records indicate a total of 5,054 gallons of LNAPL and 57,603 gallons of water were recovered while the Ferret pumps were operating.

In April 2009, LNAPL recovery efforts on the East Side of the Site were re-evaluated and product recovery continued using a Xitech product recovery pump in MW-20 and hand-bailing LNAPL from MW-5 in an effort to increase LNAPL recovery and decrease water production. These LNAPL recovery methods were continued through January 2011 when efforts were suspended due to Targa's onsite construction activities. A total of 79 gallons of LNAPL and 2 gallons of water were recovered in January 2011. Suspension continued through 2011 into 2012 due to Targa's installation of an acid gas injection well. The remainder of 2012 and 2013 were utilized to evaluate remediation efforts on Site. Manual bailing and recovery of LNAPL from the East Side wells was performed in 2014, recovering 141 gallons of LNAPL and 0.5 gallons of water. Manual bailing of wells was suspended in August 2015 as MDPE recovery methods were initiated. A total of 58.3 gallons of LNAPL were recovered using manual bailing methods from the East Side wells during 2015.

A pilot test was performed in April 2015 of MDPE recovery methods of LNAPL, associated vapors and hydrocarbon and chloride impacted groundwater at East Side well MW-5. Based on evaluation of the results of this pilot test additional MDPE events were performed in August, October and December 2015. During the four 2015 MDPE events at well MW-5 a total of 258.62 gallons of LNAPL and associated vapors (liquid equivalent) were recovered, and a total of 8,022 gallons of hydrocarbon and chloride impacted groundwater was recovered for off-site disposal. Continuation of LNAPL recovery using MDPE methods at these wells in 2016 is currently under consideration.

Records indicate a total of 5,587 gallons of LNAPL and 65,626 gallons of affected groundwater have been recovered using skimmer pump, manual bailing and MDPE methods from the East Side wells from 2003 through 2015.

Chloride and TDS Recovery System (East Side)

A chloride and TDS groundwater recovery system was installed in 2004 on the east side of the Site. This recovery system originally consisted of two recovery wells (MWD-3 and MWD-9). In 2006, the network of recovery wells was expanded to include wells RW-6, RW-7 and RW-8. A total of 1,044,619 barrels of groundwater were recovered from 2004 through 2010. The extracted groundwater was disposed of at an onsite deep injection well (injection well #5) operated by Targa. In February 2011, Chevron notified the NMOCD that they no longer had permission from Targa to use the injection well and the recovery system operations were temporarily suspended.

As part of the reevaluation and redesign of the current system and well components, limited groundwater recovery was performed at wells MWD-3 and MWD-9 from 2012 to October 2013. Installation of the redesigned groundwater recovery system began on October 28, 2013 but construction and prestart reviews were not completed until April 2014. Construction of the redesigned groundwater recovery system was completed on April 29, 2014 and groundwater recovery was resumed. A total of 76,125 barrels, or approximately 3,197,250 gallons, of chloride-impacted groundwater was recovered by this system from January through December 2015.

Groundwater pumping record reports for the five recovery wells (MWD-3, MWD-9, RW-6, RW-7 and RW-8) are submitted quarterly to the NMOSE in accordance with permit requirements.

ATTACHMENT 1

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DISCHARGE PERMIT GW-003

1. GENERAL PROVISIONS:

A. PERMITTEE AND PERMITTED FACILITY: The Oil Conservation Division (OCD) of the Energy, Minerals and Natural Resources Department issues Discharge Permit GW-003 (Discharge Permit) to Chevron U.S.A., Inc. (Owner/Operator), located at 1400 Smith Street, Houston, Texas 77002 to abate ground water and vadose zone contamination at its Eunice South Gas Plant (Facility) located in the NW/4 of the SW/4 of Section 27, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico. The facility is located approximately 4.5 miles south of Eunice, New Mexico between State Highway 207 (Eunice-Hobbs Highway) and State Highway 18.

Versado L.L.P. (Versado) is a limited partnership between Chevron and Targa Midstream Services (Targa). Versado is the current landowner of record for the land parcel where the Eunice South Gas Plant is located. The Facility is inactive; however, Targa on behalf of Versado presently operates a compressor station and operates a UIC Class II injection well.

When its ground water recovery system is operational, Chevron discharges approximately 180,000 barrels (7,560,000 gallons) per year of contaminated ground water. Ground water that may be affected by a spill, leak, or accidental discharge occurs at a depth of approximately 49 - 54 feet below ground surface, with a total dissolved solids concentration of approximately 1,000 - 1,300 mg/L.

B. SCOPE OF PERMIT: OCD has been granted authority to administer the Water Quality Act (Chapter 74, Article 6 NMSA 1978) as it applies to gas processing plants by statute and by delegation from the Water Quality Control Commission pursuant to Section 74-6-4(E) NMSA 1978.

The Water Quality Act and the rules issued under that Act protect ground water and surface water of the State of New Mexico by providing that, unless otherwise allowed by rule, no person shall cause or allow effluent or leachate to discharge so that it may move directly or indirectly into ground water unless such discharge is pursuant to an approved discharge plan. See 20.6.2.3104 NMAC and 20.6.2.3106 NMAC.

This Discharge Permit does not authorize any treatment of, or on-site disposal of, any materials, product, by-product, or oil field waste, including, but not limited to, the on-site disposal of lube oil, glycol, antifreeze, filters, elemental sulfur, washdown water, contaminated soil, and cooling tower blowdown water.

This Discharge Permit does not convey any property rights of any sort nor any exclusive privilege, and does not authorize any injury to persons or property, any invasion of other private rights, or any infringement of state, federal, or local laws, rules or regulations.

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The Owner/Operator shall operate in accordance with the Discharge Permit conditions to comply with the Water Quality Act and the rules issued pursuant to that Act, so that neither a hazard to public health nor undue risk to property will result (see 20.6.2.3109C NMAC); so that no discharge will cause or may cause any stream standard to be violated (see 20.6.2.3109H(2) NMAC); so that no discharge of any water contaminant will result in a hazard to public health, (see 20.6.2.3109H(3) NMAC); and so that the numerical standards specified of 20.6.2.3103 NMAC are not exceeded.

The Owner/Operator shall not allow or cause water pollution, discharge, or release of any water contaminant that exceeds the Water Quality Control Commission (WQCC) standards specified at 20.6.2.3101 NMAC and 20.6.2.3103 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams).

C. DISCHARGE PERMIT CONDITIONS: By signing this Discharge Permit, the Owner/Operator agrees to the specific provisions set out in this document, and the commitments made in the approved Discharge Plan Application and the attachments to that application, which are incorporated into the Discharge Permit by reference.

If this Discharge Permit is a permit renewal, it replaces the permit being renewed. Replacement of a prior permit does not relieve the Owner/Operator of its responsibility to comply with the terms of that prior permit while that permit was in effect.

D. DEFINITIONS: Terms not specifically defined in this Discharge Permit shall have the same meanings as those in the Water Quality Act or the rules adopted pursuant to that Act, as the context requires.

E. FILING FEES AND PERMIT FEES: Pursuant to 20.6.2.3114 NMAC, every facility that submits a discharge permit application for initial approval or renewal shall pay the permit fees specified in Table 1 and the filing fee specified in Table 2 of 20.6.2.3114 NMAC. OCD has already received the required $100.00 filing fee for this application. The flat fee for "Abatement of Ground Water and Vadose Zone Contamination at Oil and Gas Sites" is $2,600.00. The Owner/Operator shall submit this amount along with the signed Discharge Permit. Checks should be payable to the **"New Mexico Water Quality Management Fund,"** not the Oil Conservation Division.

F. EFFECTIVE DATE, EXPIRATION, RENEWAL CONDITIONS, AND PENALTIES FOR OPERATING WITHOUT A DISCHARGE PERMIT: This Discharge Permit is effective when the Division's Environmental Bureau receives the signed Discharge Permit from the Owner/Operator and the $2,600.00 fee. This Discharge Permit will expire on March 16, 2016. The Owner/Operator shall submit an application for renewal no later than 120 calendar days before that expiration date, pursuant to 20.6.2.3106F NMAC. If an Owner/Operator submits a renewal application at least 120 calendar days before the Discharge Permit expires and is in compliance with the approved Discharge Permit, then the existing Discharge Permit will not expire until OCD has approved or disapproved the renewal application. Operating with an expired Discharge Permit may subject the Owner/Operator to

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civil and/or criminal penalties. See Section 74-6-10.1 NMSA 1978 and Section 74-6-10.2 NMSA 1978.

G. MODIFICATIONS: The Owner/Operator shall notify the Division's Environmental Bureau of any facility expansion, production increase, or process modification that would result in any significant modification in the discharge of water contaminants. See 20.6.2.3107C NMAC. The Division's Environmental Bureau may require the Owner/Operator to submit a permit modification pursuant to 20.6.2.3109E NMAC and may modify or terminate a permit pursuant to Section 74-6-5(M) through (N) NMSA 1978.

H. TRANSFER OF DISCHARGE PERMIT: Prior to any transfer of ownership, control, or possession (whether by lease, conveyance or otherwise) of the Facility, the transferor shall notify the transferee in writing of the existence of the Discharge Permit, and shall deliver or send by certified mail to the Division's Environmental Bureau a copy of such written notification, together with a certification or other proof that such notification has been received by the transferee pursuant to 20.6.2.3111 NMAC. Upon receipt of such notification, the transferee shall inquire into all of the provisions and requirements contained in the Discharge Permit, and the transferee shall be charged with notice of all such provisions and requirements as they appear of record in the Division's file or files concerning the Discharge Permit. Upon assuming either ownership or possession of the Facility the transferee shall have the same rights and responsibilities under the Discharge Permit as were applicable to the transferor. See 20.6.2.3111 NMAC.

Transfer of the ownership, control, or possession of the Facility does not relieve the transferor of responsibility or liability for any act or omission which occurred while the transferor owned, controlled, or was in possession of the Facility. See 20.6.2.3111E NMAC.

I. CLOSURE PLAN AND FINANCIAL ASSURANCE: The Owner/Operator shall notify the Division's Environmental Bureau in writing when any operations of its Facility are to be discontinued for a period in excess of six months. Upon review of the Owner/Operator's notice, the Division's Environmental Bureau will determine whether to modify this permit pursuant to 20.6.2.3107 NMAC and 20.6.2.3109E NMAC or to require the Owner/Operator to submit a closure plan and/or post-closure plan, including financial assurance.

J. COMPLIANCE AND ENFORCEMENT: If the Owner/Operator violates or is violating a condition of this Discharge Permit, the Division's Environmental Bureau may issue a compliance order requiring compliance immediately or within a specified time period, suspending or terminating this Discharge Permit, and/or assessing a civil penalty. See Section 74-6-10 NMSA 1978. The Division's Environmental Bureau may also commence a civil action in district court for appropriate relief, including injunctive relief. See Section 74-6-10(A)(2) NMSA 1978 and Section 74-6-11 NMSA 1978. The Owner/Operator may be subject to criminal penalties for discharging a water contaminant without a discharge permit or in violation of a condition of a discharge permit; making any false material statement, representation, certification or omission of material fact in an application, record, report, plan or other document filed, submitted or required to be maintained under the Water Quality Act; falsifying, tampering with

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or rendering inaccurate any monitoring device, method or record required to be maintained under the Water Quality Act; or failing to monitor, sample or report as required by a permit issued pursuant to a state or federal law or regulation. See Section 74-6-10.2 NMSA 1978.

2. GENERAL FACILITY OPERATIONS:

A. OPERATIONAL MONITORING: The Owner/Operator shall comply with its approved monitoring programs pursuant 20.6.2.3107 NMAC.

1. Ground Water Monitoring System: The Owner/Operator shall monitor and sample all ground water monitor wells in accordance with its approved ground water abatement program.

2. Disposal of Chloride Contaminated Ground Water:

a. The Owner/Operator shall monitor its ground water recovery wells in accordance with its approved ground water abatement program.

b. The Owner/Operator shall determine the monthly volume and Total Dissolved Solids concentration of the contaminated ground water that it disposes of in accordance with its approved ground water abatement program.

B. CONTINGENCY PLANS: The Owner/Operator shall implement its approved Contingency Plans to cope with failure of the discharge permit or system in accordance with Permit Condition 2.F.

C. CLOSURE PLAN: After completing abatement of all ground water and vadose contamination required under Permit Condition 2.G, the Owner/Operator shall perform the following closure measures:

1. Remove or plug all lines leading to and from ground water recovery or injection wells so that a discharge can no longer occur.

2. Remove all abatement system components from the site, if applicable.

3. After receiving notification from the Division's Environmental Bureau that post-closure monitoring may cease, the Owner/Operator shall plug and abandon its monitor well(s).

D. RECORD KEEPING: The Owner/Operator shall maintain records of all inspections required by this Discharge Permit at its local office located at 240 Avenue O, Eunice, NM 88231 for a minimum of five years and shall make those records available for inspection by the Division's Environmental Bureau.

E. RELEASE REPORTING: The Owner/Operator shall comply with the following permit conditions, pursuant to 20.6.2.1203 NMAC, if it determines that a release of oil or other water contaminant, in such quantity as may with reasonable probability injure or be detrimental

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to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property, has occurred. The Owner/Operator shall report unauthorized releases of water contaminants in accordance with any additional commitments made in its approved Contingency Plan. If the Owner/Operator determines that any constituent exceeds the standards specified at 20.6.2.3103 NMAC, then it shall report a release to the Division's Environmental Bureau.

1. **Oral Notification:** As soon as possible after learning of such a discharge, but in no event more than twenty-four (24) hours thereafter, the Owner/Operator shall orally notify the Division's Environmental Bureau. The Owner/Operator shall provide the following:

- the name, address, and telephone number of the person or persons in charge of the facility, as well as of the Owner/Operator of the facility;
- the name and location of the facility;
- the date, time, location, and duration of the discharge;
- the source and cause of discharge;
- a description of the discharge, including its chemical composition;
- the estimated volume of the discharge; and,
- any actions taken to mitigate immediate damage from the discharge.

2. **Written Notification:** Within one week after the Owner/Operator has learned of the discharge, the Owner/Operator shall send written notification to the Division's Environmental Bureau verifying the prior oral notification as to each of the foregoing items and providing any appropriate additions or corrections to the information contained in the prior oral notification.

F. ABATEMENT PLAN: Pursuant to 20.6.2.4105A(6) NMAC, an Owner/Operator is exempt from the requirement to obtain and implement an Abatement Plan, as required in 20.6.2.4104 NMAC. However, an Owner/Operator's Discharge Permit must address abatement of contaminated ground water and be consistent with the requirements and provisions of Sections 20.6.2.4101, 20.6.2.4103, Subsections C and E of Section 20.6.2.4106, Sections 20.6.2.4107 and 20.6.2.4112 NMAC.

1. **Purpose of Abatement Plan:** The Owner/Operator shall abate polluted ground water so as to either remediate or protect the ground water for use as domestic and agricultural water supply.

2. **Abatement Standards and Requirements:** The Owner/Operator shall abate the vadose zone so that water contaminants in the vadose zone shall not contaminate ground water or surface water, through leaching, percolation or as the water table elevation fluctuates. The Owner/Operator, where the Total Dissolved Solids concentration is 10,000 mg/L or less, shall abate contaminated ground water so that toxic pollutant(s), as defined in 20.6.2.7WW NMAC, shall not be present and so that the standards of 20.6.2.3103 NMAC shall be met.

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3. **Ground Water Abatement:** The Owner/Operator shall implement its approved ground water abatement program until it has remediated the contaminated ground water to meet the standards and requirements set forth in 20.6.2.4103 NMAC.

4. **Completion and Termination:** Pursuant to 20.6.2.4112 NMAC, abatement shall be considered complete when the standards and requirements specified in 20.6.2.4103 NMAC are met. At that time, the Owner/Operator shall submit an abatement completion report, documenting compliance with the standards and requirements set forth in 20.6.2.4103 NMAC and this Discharge Permit, to Division's Environmental Bureau for approval. The abatement completion report also shall propose any changes to long term monitoring and site maintenance activities, if needed, to be performed after termination of the abatement plan.

G. OTHER REQUIREMENTS:

1. **Inspection and Entry:** Pursuant to 20.6.2.4107A NMAC, the Owner/Operator shall allow the Division's Environmental Bureau, upon the presentation of proper credentials, to:

- enter the facility at reasonable times;
- inspect and copy records required by this discharge permit;
- inspect any treatment works, monitoring, and analytical equipment;
- sample any wastes, ground water, surface water, stream sediment, plants, animals, or vadose-zone material including vadose-zone vapor;
- use the Owner/Operator's monitoring systems and wells in order to collect samples; and
- gain access to off-site property not owned or controlled by the Owner/Operator, but accessible to the Owner/Operator through a third-party access agreement, provided that it is allowed by the agreement.

2. **Advance Notice:** Pursuant to 20.6.2.4107B NMAC, The Owner/Operator shall provide the Division's Environmental Bureau with at least four (4) working days advance notice of any sampling to be performed pursuant to this Discharge Permit, or any well plugging, abandonment or destruction at the facility site.

3. **Plugging and Abandonment:** Pursuant to 20.6.2.4107C NMAC, the Owner/Operator shall request by certified mail, approval by the Division's Environmental Bureau to plug and abandon a monitor well, unless such approval is required from the State Engineer. The proposed action shall be designed to prevent water pollution that could result from water contaminants migrating through the well or borehole. The proposed action shall not take place without written approval from the Division's Environmental Bureau, unless written approval or disapproval is not received by the Owner/Operator within thirty (30) days of the date of receipt of the proposal.

H. ANNUAL REPORT: The Owner/Operator shall submit its annual report for each calendar year pursuant to 20.6.2.3107 NMAC to the Division's Environmental Bureau by March 15th of the following year . The annual report shall include the following:

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1. Results of its ground water monitoring program; including:

- summary tables listing laboratory analytic results of all ground water and soil samples. Any WQCC constituent found to exceed the groundwater standard shall be highlighted and noted in the annual report. Copies of the most recent year's laboratory analytical data sheets shall also be submitted.
- annual water table potentiometric maps. A corrected water table elevation shall be determined for all wells containing non-aqueous phase liquids. These maps shall show well locations, pertinent site features, and the direction and magnitude of the hydraulic gradient.
- semi-annual isopleth maps for the following constituents: non-aqueous phase liquids; chlorides; and, BTEX.
- semi-annual geologic cross-sections (both dip and strike), using the geologic/lithologic logs from the monitor, recovery, and injection wells, depicting the concentrations for the following constituents: non-aqueous phase liquids; chlorides; and, BTEX.
- estimate or measure of the volume of contaminated ground water discharged during each quarter and the total volume discharged to date.

2. Summary of any releases and corrective actions taken in accordance with its approved Contingency Plan.

3. **CLASS V WELLS:** Pursuant to 20.6.2.5002B NMAC, leach fields and other wastewater disposal systems at Division-regulated facilities that inject non-hazardous fluid into or above an underground source of drinking water are UIC Class V injection wells. This Discharge Permit does not authorize the use of a Class V injection well for the disposal of industrial waste at the Facility. Pursuant to 20.6.2.5005 NMAC, the Owner/Operator shall close any Class V industrial waste injection wells at its Facility that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes (*e.g.,* septic systems, leach fields, dry wells, *etc.*) within 90 calendar days of the issuance of this Discharge Permit. The Owner/Operator shall document the closure of any Class V wells used for the disposal of non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes other than contaminated ground water in its Annual Report.

Other Class V wells, including wells used only for the injection of domestic wastes, must be permitted by the New Mexico Environment Department.

4. **SCHEDULE OF COMPLIANCE:**

A. PERMIT CERTIFICATION: The Owner/Operator shall sign and return this Permit to the Division's Environmental Bureau within 45 days of its receipt of this Permit.

B. SUBMISSION OF THE PERMIT FEES: As specified in Permit Condition 1.F, the Owner/Operator shall submit the fee of $2,600.00 along with the signed Discharge

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Permit within 45 days of the receipt of the Discharge Permit. Checks should be payable to the **"New Mexico Water Quality Management Fund,"** not the Oil Conservation Division.

C. ANNUAL REPORT: As specified in Permit Condition 2.H, the Owner/Operator shall submit its annual report to the Division's Environmental Bureau by March 15th of the following year.

D. REQUIREMENT TO RESUME ABATEMENT PROGRAM: In February 2011, Chevron notified OCD that Targa would no longer allow Chevron to discharge contaminated ground water to its on-site UIC Class II injection well. Consequently, Chevron temporarily ceased operating its ground water abatement program. Chevron shall propose an alternate method of disposing the contaminated ground water to OCD no later than ninety (90) days after the issuance of this discharge permit.

5. CERTIFICATION: (OWNER/OPERATOR) by the officer whose signature appears below, acknowledges receipt of this Discharge Permit, and has reviewed its terms and conditions.

Chevron U.S.A. INC.
Company Name - print name

Robert A. Guldner
Company Representative - print name

Company Representative - Signature

Title: Manager OE/HES

Date: 01/23/2012

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APPENDIX B

Geologic Cross Sections

C:\Users\shasarek6736\ACCDocs\Arcadis\AUS-CHEVRON-FORMER EUNICE SOUTH GAS PLANT-EUNICE New Mexico\Project Files\2023\01-In Progress\01-DWG\GEN-F02-WELL LOCATION AND MONITORING PLAN.dwg LAYOUT: 2 SAVED: 1/20/2023 12:16 PM ACADVER: 24.1S (LMS TECH)
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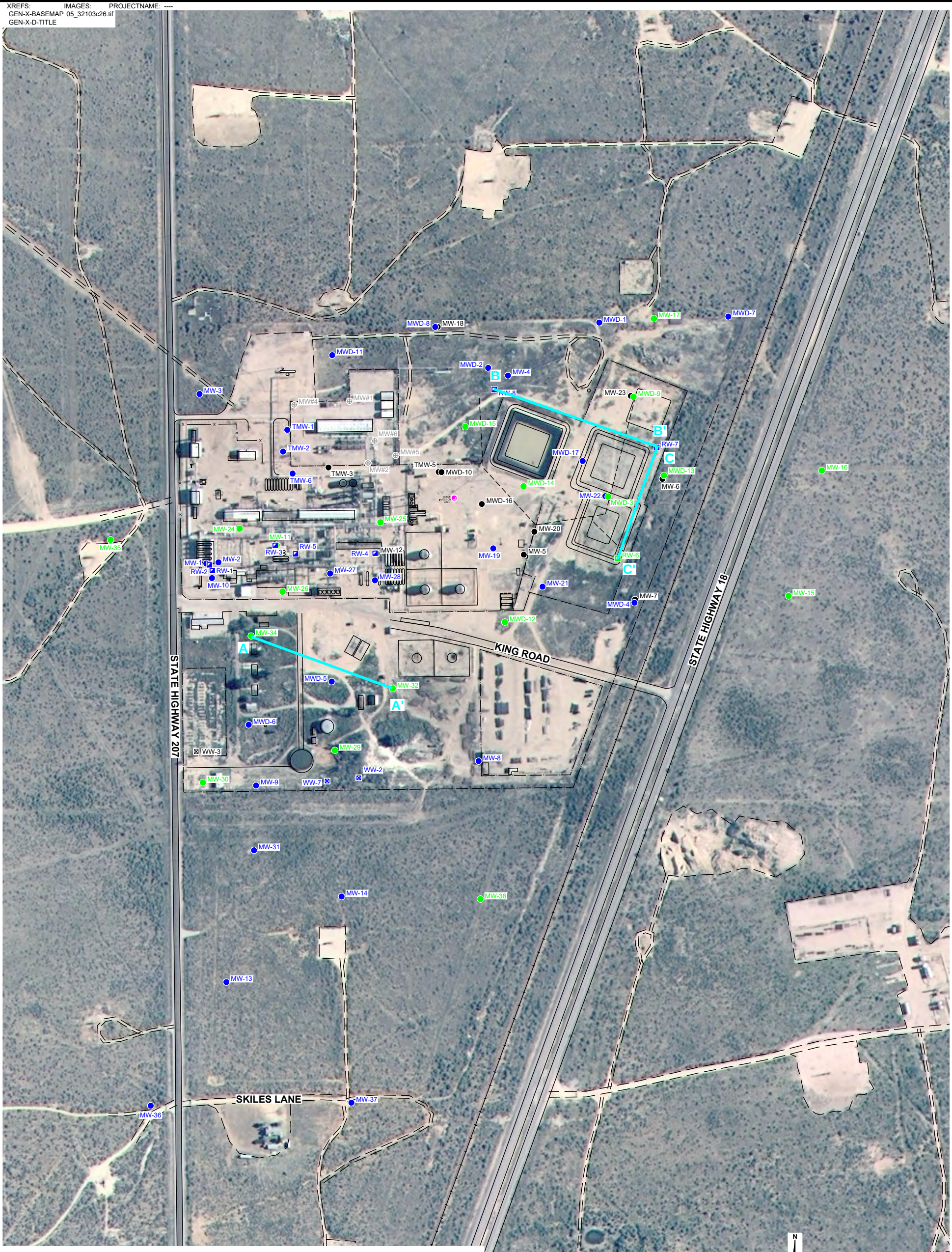

LEGEND

- MONITORING WELLS
- TARGA'S ONSITE INJECTION WELL
- RECOVERY WELL
- INACTIVE WATER WELL
- OFFSITE PROPERTY WELL (NOT SAMPLED)
- LOCATIONS IN **BLUE** ARE SAMPLED ANNUALLY
- LOCATIONS IN **GREEN** ARE SAMPLED SEMIANNUALLY
- LOCATIONS IN **BLACK** ARE NOT SAMPLED AT THIS TIME
- A —— A' CROSS SECTION LOCATION

NOTES:

1. MAP PROJECTED TO NAD83 NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, FEET.
2. AERIAL IMAGERY PROVIDED BY USGS EARTH EXPLORER, ACCESSED APRIL 2016.
3. WELLS SURVEYED 1998, 2000, 2001, 2002, AND 2006 BY PIPER SURVEYING COMPANY. NAD27 NM S.P. EAST, FEET.
4. SITE FEATURES PROVIDED BY CRA

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER EUNICE SOUTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO

CROSS SECTION LOCATION MAP

ARCADIS

FIGURE
1

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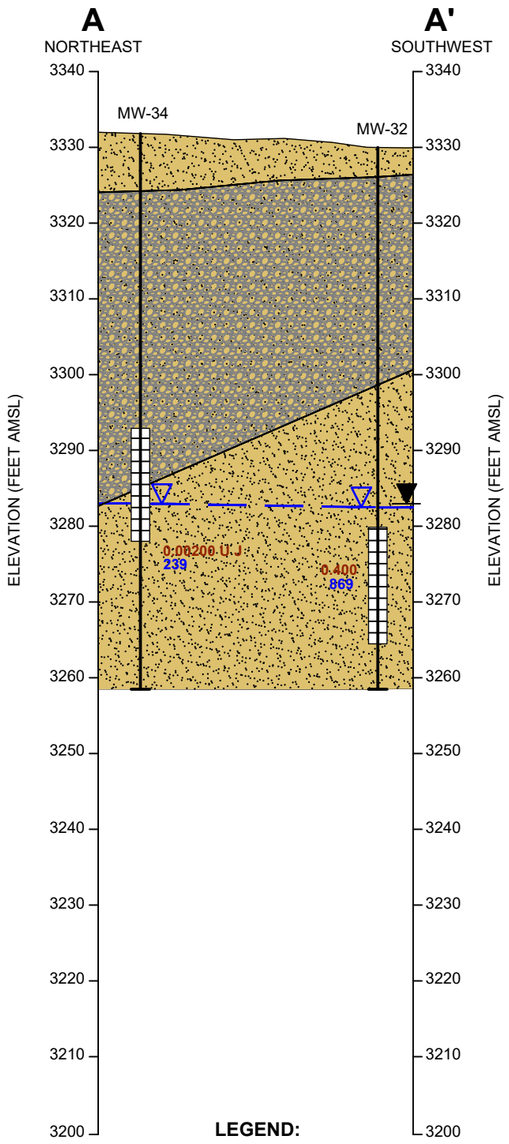
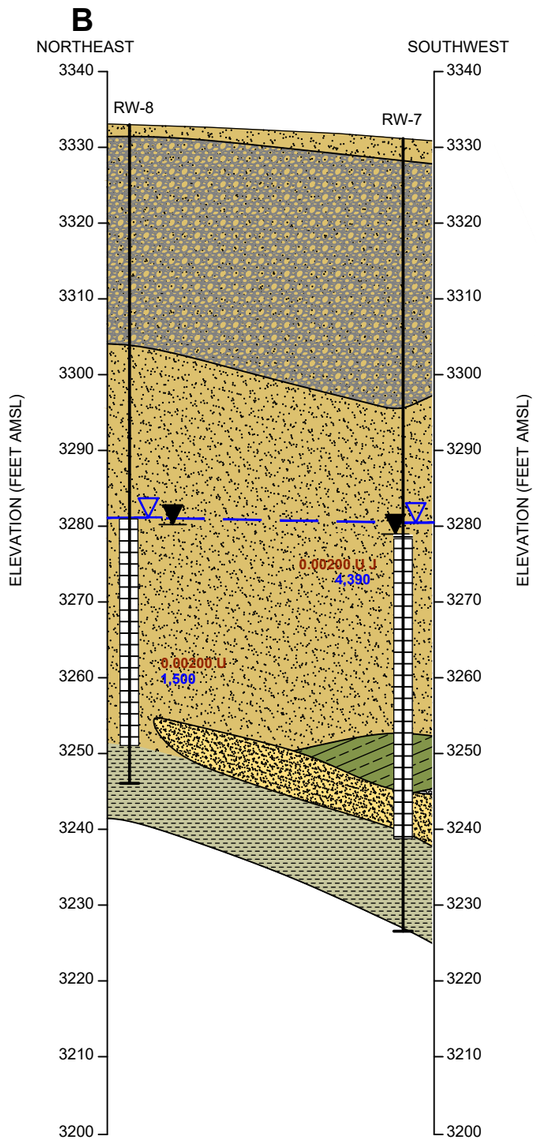
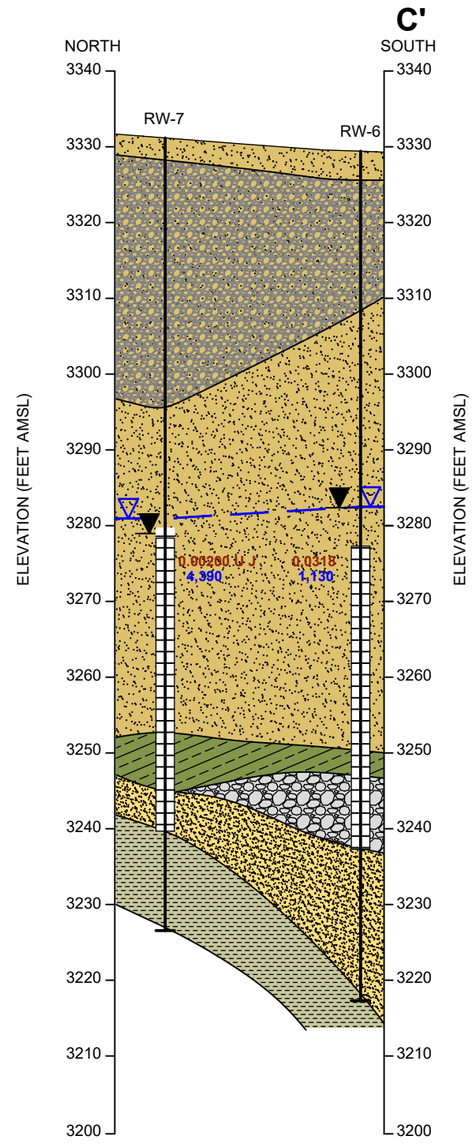
CITY:(KNOXVILLE) DIV/GROUP:(ENV/GIS) DB:(BALTOM) LD:(C.SMITH) PIC:(M.FLEISCHNER) PM:(LMINER) TM:(J.FRIZZELL)
C:\Users\shankarv4688\DOCACCDocs\Arcadis ACC US\AUS-99999999-CHEV_FORMER EUNICE SOUTH GAS_EUNICE_NM\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\GEN-F02-2023-GEOLOGIC CROSS SECTIONS.dwg LAYOUT: A-A' AND B-B' SAVED: 2/20/2024 12:22 PM ACADVER: 24.1S (LMS TECH) PAGESETUP:--- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 2/20/2024 12:22 PM BY: SHANKARAPPA, VASANTH KUMAR







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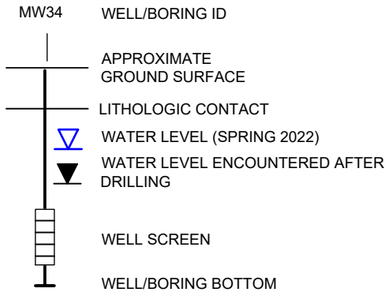
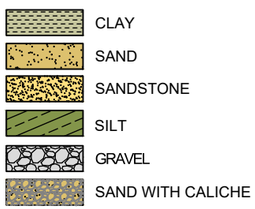
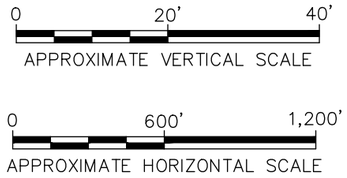




0.400	SPRING 2023 BENZENE CONCENTRATION (mg/L)
869	SPRING 2023 CHLORIDE CONCENTRATION (mg/L)
J	ESTIMATED VALUE
U	NON-DETECT
NA	NOT ANALYSED



CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER EUNICE SOUTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO

GEOLOGIC CROSS-SECTIONS

ARCADIS

FIGURE
2

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APPENDIX C

Historical Groundwater Elevations

Appendix C
Historical Groundwater Elevations
2021 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

ARCADIS

Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MW-1	2/18/2009	3335.09	54.27	51.96	2.31	0.74	3280.82	3282.53
MW-1	8/5/2009	3335.09	54.30	52.03	2.27	0.74	3280.79	3282.47
MW-1	2/2/2010	3335.09	54.65	52.10	2.55	0.74	3280.44	3282.33
MW-1	8/2/2010	3335.09	54.69	52.18	2.51	0.74	3280.40	3282.26
MW-1	4/4/2011	3335.09	54.50	51.97	2.53	0.74	3280.59	3282.46
MW-1	8/8/2011	3335.09	54.40	51.95	2.45	0.74	3280.69	3282.50
MW-1	2/6/2012	3335.09	54.73	52.18	2.55	0.74	3280.36	3282.25
MW-1	8/7/2012	3335.09	54.53	51.88	2.65	0.74	3280.56	3282.52
MW-1	2/5/2013	3335.09	54.39	52.01	2.38	0.74	3280.70	3282.46
MW-1	8/5/2013	3335.09	54.42	51.85	2.57	0.74	3280.67	3282.57
MW-1	2/3/2014	3335.09	54.35	51.85	2.5	0.74	3280.74	3282.59
MW-1	8/5/2014	3335.09	54.40	51.85	2.55	0.74	3280.69	3282.58
MW-1	2/2/2015	3335.09	53.38	51.62	1.76	0.74	3281.71	3283.01
MW-1	8/3/2015	3335.09	53.47	51.54	1.93	0.74	3281.62	3283.05
MW-1	3/29/2016	3335.09	NM	51.41	NA	0.74	NM	NM
MW-1	9/13/2016	3335.09	53.11	51.41	1.7	0.74	3281.98	3283.24
MW-1	4/3/2017	3335.09	52.96	51.31	1.65	0.74	3282.13	3283.35
MW-1	3/13/2018	3335.09	54.81	53.06	1.75	0.74	3280.28	3281.58
MW-1	9/24/2018	3335.09	NM	53.06	NA	0.74	NM	NM
MW-1	4/1/2019	3335.09	54.60	53.18	1.42	0.74	3280.49	3281.54
MW-1	10/1/2019	3335.09	54.74	53.29	1.45	0.74	3280.35	3281.42
MW-1	3/17/2020	3335.09	54.71	53.25	1.46	0.74	3280.38	3281.46
MW-1	3/15/2021	3335.09	54.68	53.22	1.46	0.74	3280.41	3281.49
MW-1	9/29/2021	3335.09	53.27	NM	NA	0.74	3281.82	3281.82
MW-1	2/22/2022	3335.09	54.80	53.35	1.45	0.74	3280.29	3281.36
MW-1	2/28/2023	3335.09	54.59	53.18	1.41	0.74	3280.5	3281.54
MW-2	2/18/2009	3335.7	56.44	53.85	2.59	0.74	3279.26	3281.18
MW-2	8/5/2009	3335.7	54.90	52.21	2.69	0.74	3280.80	3282.79
MW-2	2/2/2010	3335.7	54.93	52.25	2.68	0.74	3280.77	3282.75
MW-2	8/2/2010	3335.7	54.85	52.34	2.51	0.74	3280.85	3282.71
MW-2	4/4/2011	3335.7	54.90	52.15	2.75	0.74	3280.80	3282.84
MW-2	8/8/2011	3335.7	54.52	52.21	2.31	0.74	3281.18	3282.89
MW-2	2/6/2012	3335.7	54.97	52.22	2.75	0.74	3280.73	3282.77
MW-2	8/7/2012	3335.7	NM	52.09	NA	0.74	NM	NM
MW-2	2/5/2013	3335.7	54.61	52.06	2.55	0.74	3281.09	3282.98
MW-2	8/5/2013	3335.7	49.50	52.03	-2.53	0.74	3286.20	3284.33
MW-2	2/3/2014	3335.7	NM	52.07	NA	0.74	NM	NM
MW-2	8/5/2014	3335.7	NM	52.05	NA	0.74	NM	NM
MW-2	2/2/2015	3335.7	53.65	51.80	1.85	0.74	3282.05	3283.42
MW-2	8/3/2015	3335.7	53.81	51.80	2.01	0.74	3281.89	3283.38
MW-2	3/29/2016	3335.7	53.36	51.60	1.76	0.74	3282.34	3283.64
MW-2	9/13/2016	3335.7	53.41	51.61	1.8	0.74	3282.29	3283.62
MW-2	4/3/2017	3335.7	53.15	51.49	1.66	0.74	3282.55	3283.78
MW-2	3/13/2018	3335.7	53.00	51.48	1.52	0.74	3282.70	3283.82
MW-2	9/24/2018	3335.7	NM	51.48	NA	0.74	NM	NM
MW-2	4/1/2019	3335.7	52.96	51.48	1.48	0.74	3282.74	3283.84
MW-2	10/1/2019	3335.7	53.10	51.58	1.52	0.74	3282.60	3283.72
MW-2	3/17/2020	3335.7	53.57	51.55	2.02	0.74	3282.13	3283.62
MW-2	3/18/2021	3335.7	53.05	51.4	1.65	0.74	3282.65	3283.87
MW-2	9/29/2021	3335.7	53.03	51.58	1.45	0.74	3282.67	3283.74
MW-2	2/22/2022	3335.7	52.99	51.46	1.53	0.74	3282.71	3283.84
MW-2	2/28/2023	3335.7	53.00	51.47	1.53	0.74	3282.70	3283.83
MW-3	2/9/2009	3339.65	56.24	NM	NA	NA	3283.41	3283.41
MW-3	8/5/2009	3339.65	56.25	NM	NA	NA	3283.40	3283.40
MW-3	2/2/2010	3339.65	56.30	NM	NA	NA	3283.35	3283.35
MW-3	8/2/2010	3339.65	56.31	NM	NA	NA	3283.34	3283.34
MW-3	4/4/2011	3339.65	56.20	NM	NA	NA	3283.45	3283.45
MW-3	8/8/2011	3339.65	56.15	NM	NA	NA	3283.50	3283.50
MW-3	2/6/2012	3339.65	56.12	NM	NA	NA	3283.53	3283.53
MW-3	8/6/2012	3339.65	56.10	NM	NA	NA	3283.55	3283.55
MW-3	2/5/2013	3339.65	56.10	NM	NA	NA	3283.55	3283.55
MW-3	8/5/2013	3339.65	56.18	NM	NA	NA	3283.47	3283.47
MW-3	2/3/2014	3339.65	56.06	NM	NA	NA	3283.59	3283.59
MW-3	8/5/2014	3339.65	56.06	NM	NA	NA	3283.59	3283.59
MW-3	2/2/2015	3339.65	55.80	NM	NA	NA	3283.85	3283.85
MW-3	8/3/2015	3339.65	55.73	NM	NA	NA	3283.92	3283.92
MW-3	3/29/2016	3339.65	55.60	NM	NA	NA	3284.05	3284.05
MW-3	9/12/2016	3339.65	55.51	NM	NA	NA	3284.14	3284.14
MW-3	4/3/2017	3339.65	55.49	NM	NA	NA	3284.16	3284.16
MW-3	9/12/2017	3339.65	55.44	NM	NA	NA	3284.21	3284.21
MW-3	3/13/2018	3339.65	55.33	NM	NA	NA	3284.32	3284.32
MW-3	9/24/2018	3339.65	55.41	NM	NA	NA	3284.24	3284.24
MW-3	4/1/2019	3339.65	55.30	NM	NA	NA	3284.35	3284.35
MW-3	10/1/2019	3339.65	55.40	NM	NA	NA	3284.25	3284.25
MW-3	3/16/2020	3339.65	55.30	NM	NA	NA	3284.35	3284.35
MW-3	3/17/2021	3339.65	55.25	NM	NA	NA	3284.40	3284.40

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Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MW-3	9/20/2021	3339.65	55.26	NM	NA	NA	3284.39	3284.39
MW-3	2/22/2022	3339.65	55.33	NM	NA	NA	3284.32	3284.32
MW-3	2/28/2023	3339.65	55.17	NM	NA	NA	3284.48	3284.48

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Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MW-4	2/11/2009	3333.25	51.99	NM	NA	NA	3281.26	3281.26
MW-4	8/4/2009	3333.25	51.43	NM	NA	NA	3281.82	3281.82
MW-4	2/2/2010	3333.25	51.91	NM	NA	NA	3281.34	3281.34
MW-4	8/2/2010	3333.25	51.76	NM	NA	NA	3281.49	3281.49
MW-4	4/4/2011	3333.25	50.98	NM	NA	NA	3282.27	3282.27
MW-4	8/8/2011	3333.25	50.80	NM	NA	NA	3282.45	3282.45
MW-4	2/6/2012	3333.25	50.72	NM	NA	NA	3282.53	3282.53
MW-4	8/7/2012	3333.25	50.62	NM	NA	NA	3282.63	3282.63
MW-4	2/5/2013	3333.25	50.55	NM	NA	NA	3282.70	3282.70
MW-4	8/5/2013	3333.25	50.66	NM	NA	NA	3282.59	3282.59
MW-4	2/5/2014	3333.25	50.51	NM	NA	NA	3282.74	3282.74
MW-4	8/5/2014	3333.25	50.86	NM	NA	NA	3282.39	3282.39
MW-4	2/2/2015	3333.25	50.47	NM	NA	NA	3282.78	3282.78
MW-4	8/3/2015	3333.25	50.40	NM	NA	NA	3282.85	3282.85
MW-4	3/29/2016	3333.25	50.27	NM	NA	NA	3282.98	3282.98
MW-4	9/12/2016	3333.25	50.23	NM	NA	NA	3283.02	3283.02
MW-4	4/3/2017	3333.25	50.18	NM	NA	NA	3283.07	3283.07
MW-4	9/12/2017	3333.25	50.10	NM	NA	NA	3283.15	3283.15
MW-4	3/12/2018	3333.25	49.94	NM	NA	NA	3283.31	3283.31
MW-4	9/24/2018	3333.25	50.02	NM	NA	NA	3283.23	3283.23
MW-4	4/1/2019	3333.25	49.80	NM	NA	NA	3283.45	3283.45
MW-4	10/1/2019	3333.25	50.01	NM	NA	NA	3283.24	3283.24
MW-4	3/16/2020	3333.25	49.78	NM	NA	NA	3283.47	3283.47
MW-4	3/18/2021	3333.25	49.49	NM	NA	NA	3283.76	3283.76
MW-4	9/20/2021	3333.25	49.43	NM	NA	NA	3283.82	3283.82
MW-4	2/22/2022	3333.25	49.47	NM	NA	NA	3283.78	3283.78
MW-4	2/28/2023	3333.25	49.41	NM	NA	NA	3283.84	3283.84
MW-5	2/4/2009	3333.85	52.62	52.60	0.02	0.82	3281.23	3281.25
MW-5	3/18/2009	3333.85	52.93	52.56	0.37	0.82	3280.92	3281.22
MW-5	8/5/2009	3333.85	53.04	52.64	0.4	0.82	3280.81	3281.14
MW-5	2/2/2010	3333.85	53.80	52.86	0.94	0.82	3280.05	3280.82
MW-5	8/2/2010	3333.85	53.32	53.31	0.01	0.82	3280.53	3280.54
MW-5	4/4/2011	3333.85	NM	NM	NA	0.82	NM	NM
MW-5	8/8/2011	3333.85	58.07	55.20	2.87	0.82	3275.78	3278.13
MW-5	2/6/2012	3333.85	53.23	52.80	0.43	0.82	3280.62	3280.97
MW-5	8/7/2012	3333.85	55.10	51.66	3.44	0.82	3278.75	3281.57
MW-5	2/5/2013	3333.85	56.10	51.35	4.75	0.82	3277.75	3281.65
MW-5	8/5/2013	3333.85	56.15	51.43	4.72	0.82	3277.70	3281.57
MW-5	2/3/2014	3333.85	55.80	51.56	4.24	0.82	3278.05	3281.53
MW-5	8/5/2014	3333.85	56.19	51.60	4.59	0.82	3277.66	3281.42
MW-5	2/2/2015	3333.85	53.40	50.80	2.6	0.82	3280.45	3282.58
MW-5	8/3/2015	3333.85	54.33	50.86	3.47	0.82	3279.52	3282.37
MW-5	3/29/2016	3333.85	53.21	50.70	2.51	0.82	3280.64	3282.70
MW-5	9/13/2016	3333.85	53.21	50.66	2.55	0.82	3280.64	3282.73
MW-5	4/3/2017	3333.85	53.62	50.51	3.11	0.82	3280.23	3282.78
MW-5	3/15/2018	3333.85	53.30	50.47	2.83	0.82	3280.55	3282.87
MW-5	9/24/2018	3333.85	NM	50.47	NA	0.82	NM	NM
MW-5	3/17/2020	3333.85	54.43	50.61	3.82	0.82	3279.42	3282.55
MW-5	3/15/2021	3333.85	53.84	50.43	3.41	0.82	3280.01	3282.81
MW-5	9/20/2021	3333.85	52.29	50.36	1.93	0.82	3281.56	3283.14
MW-5	2/22/2022	3333.85	53.34	50.38	2.96	0.82	3280.51	3282.94
MW-5	2/28/2023	3333.85	54.00	50.42	3.58	0.82	3279.85	3282.79
MW-6	2/5/2009	3332.33	52.14	NM	NA	NA	3280.19	3280.19
MW-6	8/4/2009	3332.33	52.20	NM	NA	NA	3280.13	3280.13
MW-6	2/2/2010	3332.33	52.53	NM	NA	NA	3279.80	3279.80
MW-6	8/2/2010	3332.33	52.95	NM	NA	NA	3279.38	3279.38
MW-6	4/4/2011	3332.33	51.23	NM	NA	NA	3281.10	3281.10
MW-6	8/8/2011	3332.33	50.94	NM	NA	NA	3281.39	3281.39
MW-6	2/6/2012	3332.33	50.87	NM	NA	NA	3281.46	3281.46
MW-6	8/17/2012	3332.33	60.68	NM	NA	NA	3271.65	3271.65
MW-6	2/5/2013	3332.33	50.61	NM	NA	NA	3281.72	3281.72
MW-6	8/5/2013	3332.33	50.70	NM	NA	NA	3281.63	3281.63
MW-6	2/3/2014	3332.33	50.52	NM	NA	NA	3281.81	3281.81
MW-6	8/5/2014	3332.33	51.22	NM	NA	NA	3281.11	3281.11
MW-6	2/2/2015	3332.33	50.40	NM	NA	NA	3281.93	3281.93
MW-6	8/3/2015	3332.33	50.40	NM	NA	NA	3281.93	3281.93
MW-6	3/28/2016	3332.33	50.23	NM	NA	NA	3282.10	3282.10
MW-6	9/7/2016	3332.33	50.11	NM	NA	NA	3282.22	3282.22
MW-6	4/3/2017	3332.33	50.20	NM	NA	NA	3282.13	3282.13
MW-6	3/12/2018	3332.33	50.01	NM	NA	NA	3282.32	3282.32
MW-6	4/1/2019	3332.33	49.14	NM	NA	NA	3283.19	3283.19
MW-6	3/16/2020	3332.33	49.90	NM	NA	NA	3282.43	3282.43
MW-6	3/15/2021	3332.33	49.46	NM	NA	NA	3282.87	3282.87
MW-6	9/20/2021	3332.33	49.38	NM	NA	NA	3282.95	3282.95
MW-6	2/25/2022	3332.33	49.71	NM	NA	NA	3282.62	3282.62
MW-6	2/28/2023	3332.33	49.40	NM	NA	NA	3282.93	3282.93

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Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MW-7	2/5/2009	3330.43	49.86	NM	NA	NA	3280.57	3280.57
MW-7	8/4/2009	3330.43	50.08	NM	NA	NA	3280.35	3280.35
MW-7	2/2/2010	3330.43	50.25	NM	NA	NA	3280.18	3280.18
MW-7	8/2/2010	3330.43	50.91	NM	NA	NA	3279.52	3279.52
MW-7	4/4/2011	3330.43	49.48	NM	NA	NA	3280.95	3280.95
MW-7	8/8/2011	3330.43	49.28	NM	NA	NA	3281.15	3281.15
MW-7	2/6/2012	3330.43	49.19	NM	NA	NA	3281.24	3281.24
MW-7	8/17/2012	3330.43	49.12	NM	NA	NA	3281.31	3281.31
MW-7	2/5/2013	3330.43	49.08	NM	NA	NA	3281.35	3281.35
MW-7	8/5/2013	3330.43	49.15	NM	NA	NA	3281.28	3281.28
MW-7	2/3/2014	3330.43	49.00	NM	NA	NA	3281.43	3281.43
MW-7	8/5/2014	3330.43	49.30	NM	NA	NA	3281.13	3281.13
MW-7	2/2/2015	3330.43	47.80	NM	NA	NA	3282.63	3282.63
MW-7	8/3/2015	3330.43	48.05	NM	NA	NA	3282.38	3282.38
MW-7	3/28/2016	3330.43	47.79	NM	NA	NA	3282.64	3282.64
MW-7	9/9/2016	3330.43	47.79	NM	NA	NA	3282.64	3282.64
MW-7	4/3/2017	3330.43	47.78	NM	NA	NA	3282.65	3282.65
MW-7	3/12/2018	3330.43	47.88	NM	NA	NA	3282.55	3282.55
MW-7	9/24/2018	3330.43	NM	NM	NA	NA	NM	NM
MW-7	4/1/2019	3330.43	47.99	NM	NA	NA	3282.44	3282.44
MW-7	3/16/2020	3330.43	48.15	NM	NA	NA	3282.28	3282.28
MW-7	3/15/2021	3330.43	48.90	NM	NA	NA	3281.53	3281.53
MW-7	9/20/2021	3330.43	47.81	NM	NA	NA	3282.62	3282.62
MW-7	2/25/2022	3330.43	47.92	NM	NA	NA	3282.51	3282.51
MW-7	2/28/2023	3330.43	47.89	NM	NA	NA	3282.54	3282.54
MW-8	2/2/2009	3330.59	49.48	NM	NA	NA	3281.11	3281.11
MW-8	8/4/2009	3330.59	49.66	NM	NA	NA	3280.93	3280.93
MW-8	2/2/2010	3330.59	49.86	NM	NA	NA	3280.73	3280.73
MW-8	8/2/2010	3330.59	49.83	NM	NA	NA	3280.76	3280.76
MW-8	4/4/2011	3330.59	49.82	NM	NA	NA	3280.77	3280.77
MW-8	8/8/2011	3330.59	49.80	NM	NA	NA	3280.79	3280.79
MW-8	2/6/2012	3330.59	49.84	NM	NA	NA	3280.75	3280.75
MW-8	8/7/2012	3330.59	53.30	NM	NA	NA	3277.29	3277.29
MW-8	2/5/2013	3330.59	49.77	NM	NA	NA	3280.82	3280.82
MW-8	8/5/2013	3330.59	49.74	NM	NA	NA	3280.85	3280.85
MW-8	2/3/2014	3330.59	49.70	NM	NA	NA	3280.89	3280.89
MW-8	2/2/2015	3330.59	48.55	NM	NA	NA	3282.04	3282.04
MW-8	8/3/2015	3330.59	48.64	NM	NA	NA	3281.95	3281.95
MW-8	3/29/2016	3330.59	48.49	NM	NA	NA	3282.10	3282.10
MW-8	9/6/2016	3330.59	48.52	NM	NA	NA	3282.07	3282.07
MW-8	3/12/2018	3330.59	48.43	NM	NA	NA	3282.16	3282.16
MW-8	8/5/2014	3330.59	49.74	NM	NA	NA	3280.85	3280.85
MW-8	4/3/2017	3330.59	48.41	NM	NA	NA	3282.18	3282.18
MW-8	9/11/2017	3330.59	48.37	NM	NA	NA	3282.22	3282.22
MW-8	9/24/2018	3330.59	48.66	NM	NA	NA	3281.93	3281.93
MW-8	4/1/2019	3330.59	48.59	NM	NA	NA	3282.00	3282.00
MW-8	10/1/2019	3330.59	48.76	NM	NA	NA	3281.83	3281.83
MW-8	3/16/2020	3330.59	48.75	NM	NA	NA	3281.84	3281.84
MW-8	3/17/2021	3330.59	48.71	NM	NA	NA	3281.88	3281.88
MW-8	9/29/2021	3330.59	48.56	NM	NA	NA	3282.03	3282.03
MW-8	2/22/2022	3330.59	48.96	NM	NA	NA	3281.63	3281.63
MW-8	2/28/2023	3330.59	48.74	NM	NA	NA	3281.85	3281.85
MW-9	2/12/2009	3334.73	53.46	NM	NA	NA	3281.27	3281.27
MW-9	8/5/2009	3334.73	53.56	NM	NA	NA	3281.17	3281.17
MW-9	2/2/2010	3334.73	53.66	NM	NA	NA	3281.07	3281.07
MW-9	8/2/2010	3334.73	53.75	NM	NA	NA	3280.98	3280.98
MW-9	4/4/2011	3334.73	53.71	NM	NA	NA	3281.02	3281.02
MW-9	8/8/2011	3334.73	53.66	NM	NA	NA	3281.07	3281.07
MW-9	2/6/2012	3334.73	53.66	NM	NA	NA	3281.07	3281.07
MW-9	8/6/2012	3334.73	53.71	NM	NA	NA	3281.02	3281.02
MW-9	2/5/2013	3334.73	53.59	NM	NA	NA	3281.14	3281.14
MW-9	8/5/2013	3334.73	53.60	NM	NA	NA	3281.13	3281.13
MW-9	2/3/2014	3334.73	53.50	NM	NA	NA	3281.23	3281.23
MW-9	8/5/2014	3334.73	53.58	NM	NA	NA	3281.15	3281.15
MW-9	2/2/2015	3334.73	53.05	NM	NA	NA	3281.68	3281.68
MW-9	8/3/2015	3334.73	53.03	NM	NA	NA	3281.70	3281.70
MW-9	3/29/2016	3334.73	52.96	NM	NA	NA	3281.77	3281.77
MW-9	9/6/2016	3334.73	52.90	NM	NA	NA	3281.83	3281.83
MW-9	4/3/2017	3334.73	52.84	NM	NA	NA	3281.89	3281.89
MW-9	9/11/2017	3334.73	52.80	NM	NA	NA	3281.93	3281.93
MW-9	3/12/2018	3334.73	52.54	NM	NA	NA	3282.19	3282.19
MW-9	9/24/2018	3334.73	52.84	NM	NA	NA	3281.89	3281.89
MW-9	4/1/2019	3334.73	52.78	NM	NA	NA	3281.95	3281.95
MW-9	10/1/2019	3334.73	52.86	NM	NA	NA	3281.87	3281.87
MW-9	3/16/2020	3334.73	52.83	NM	NA	NA	3281.90	3281.90
MW-9	3/16/2021	3334.73	52.81	NM	NA	NA	3281.92	3281.92

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MW-9	9/20/2021	3334.73	52.75	NM	NA	NA	3281.98	3281.98
MW-9	2/22/2022	3334.73	53.09	NM	NA	NA	3281.64	3281.64
MW-9	2/28/2023	3334.73	52.80	NM	NA	NA	3281.93	3281.93
MW-10	2/18/2009	3336.38	53.84	53.83	0.01	0.74	3282.54	3282.55
MW-10	8/5/2009	3336.38	53.95	NM	NA	0.74	3282.43	3282.43
MW-10	2/2/2010	3336.38	54.02	NM	NA	0.74	3282.36	3282.36
MW-10	8/2/2010	3336.38	54.28	54.05	0.23	0.74	3282.10	3282.27
MW-10	4/4/2011	3336.38	54.60	53.80	0.8	0.74	3281.78	3282.37
MW-10	8/8/2011	3336.38	54.22	53.85	0.37	0.74	3282.16	3282.43
MW-10	2/6/2012	3336.38	54.29	54.23	0.06	0.74	3282.09	3282.13
MW-10	8/7/2012	3336.38	56.40	53.33	3.07	0.74	3279.98	3282.25
MW-10	2/5/2013	3336.38	56.34	53.28	3.06	0.74	3280.04	3282.30
MW-10	8/5/2013	3336.38	56.33	53.24	3.09	0.74	3280.05	3282.34
MW-10	2/3/2014	3336.38	54.41	51.46	2.95	0.74	3281.97	3284.15
MW-10	8/5/2014	3336.38	54.43	51.47	2.96	0.74	3281.95	3284.14
MW-10	2/2/2015	3336.38	51.83	51.61	0.22	0.74	3284.55	3284.71
MW-10	8/3/2015	3336.38	51.63	51.61	0.02	0.74	3284.75	3284.76
MW-10	3/29/2016	3336.38	52.06	52.03	0.03	0.74	3284.32	3284.34
MW-10	9/13/2016	3336.38	51.59	51.45	0.14	0.74	3284.79	3284.89
MW-10	4/3/2017	3336.38	51.41	51.28	0.13	0.74	3284.97	3285.07
MW-10	3/13/2018	3336.38	51.40	51.30	0.1	0.74	3284.98	3285.05
MW-10	9/24/2018	3336.38	NM	51.30	NA	0.74	NM	NM
MW-10	4/1/2019	3336.38	52.61	50.84	1.77	0.74	3283.77	3285.08
MW-10	10/1/2019	3336.38	52.78	50.95	1.83	0.74	3283.60	3284.95
MW-10	3/17/2020	3336.38	52.7	50.91	1.79	0.74	3283.68	3285.00
MW-10	3/15/2021	3336.38	52.67	50.87	1.8	0.74	3283.71	3285.04
MW-10	9/29/2021	3336.38	50.94	50.93	0.01	0.74	3285.44	3285.45
MW-10	2/22/2022	3336.38	52.63	50.85	1.78	0.74	3283.75	3285.07
MW-10	2/28/2023	3336.38	52.66	50.86	1.8	0.74	3283.72	3285.05
MW-11	2/18/2009	3334.86	52.21	NM	NA	0.72	3282.65	3282.65
MW-11	8/5/2009	3334.86	52.37	52.35	0.02	0.72	3282.49	3282.50
MW-11	2/2/2010	3334.86	52.46	NM	NA	0.72	3282.40	3282.40
MW-11	8/2/2010	3334.86	52.48	NM	NA	0.72	3282.38	3282.38
MW-11	4/4/2011	3334.86	52.32	NM	NA	0.72	3282.54	3282.54
MW-11	8/8/2011	3334.86	52.30	NM	NA	0.72	3282.56	3282.56
MW-11	2/6/2012	3334.86	52.36	NM	NA	0.72	3282.50	3282.50
MW-11	8/7/2012	3334.86	52.32	NM	NA	0.72	3282.54	3282.54
MW-11	2/5/2013	3334.86	52.30	NM	NA	0.72	3282.56	3282.56
MW-11	8/5/2013	3334.86	52.21	NM	NA	0.72	3282.65	3282.65
MW-11	2/3/2014	3334.86	52.18	NM	NA	0.72	3282.68	3282.68
MW-11	8/5/2014	3334.86	52.24	NM	NA	0.72	3282.62	3282.62
MW-11	2/2/2015	3334.86	51.84	NM	NA	0.72	3283.02	3283.02
MW-11	8/3/2015	3334.86	51.70	NM	NA	0.72	3283.16	3283.16
MW-11	3/29/2016	3334.86	51.43	NM	NA	0.72	3283.43	3283.43
MW-11	9/12/2016	3334.86	51.48	NM	NA	0.72	3283.38	3283.38
MW-11	4/3/2017	3334.86	51.34	NM	NA	0.72	3283.52	3283.52
MW-11	9/12/2017	3334.86	51.20	NM	NA	0.72	3283.66	3283.66
MW-11	3/13/2018	3334.86	51.34	NM	NA	0.72	3283.52	3283.52
MW-11	9/24/2018	3334.86	51.45	NM	NA	0.72	3283.41	3283.41
MW-11	4/1/2019	3334.86	51.31	NM	NA	0.72	3283.55	3283.55
MW-11	10/1/2019	3334.86	51.43	NM	NA	0.72	3283.43	3283.43
MW-11	3/16/2020	3334.86	51.35	NM	NA	0.72	3283.51	3283.51
MW-11	9/23/2020	3334.86	51.33	NM	NA	0.72	3283.53	3283.53
MW-11	3/19/2021	3334.86	51.36	NM	NA	0.72	3283.50	3283.50
MW-11	9/21/2021	3334.86	51.45	NM	NA	0.72	3283.41	3283.41
MW-11	2/22/2022	3334.86	51.55	NM	NA	0.72	3283.31	3283.31
MW-11	9/27/2022	3334.86	51.37	NM	NA	NA	3283.49	3283.49
MW-11	2/28/2023	3334.86	51.30	NM	NA	NA	3283.56	3283.56
MW-11	10/30/2023	3334.86	51.25	NM	NA	NA	3283.61	3283.61
MW-12	2/18/2009	3333.88	52.14	51.42	0.72	0.72	3281.74	3282.26
MW-12	8/5/2009	3333.88	52.27	51.55	0.72	0.72	3281.61	3282.13
MW-12	2/2/2010	3333.88	52.20	51.75	0.45	0.72	3281.68	3282.00
MW-12	8/2/2010	3333.88	52.43	51.81	0.62	0.72	3281.45	3281.90
MW-12	4/4/2011	3333.88	52.10	51.50	0.6	0.72	3281.78	3282.21
MW-12	8/8/2011	3333.88	52.05	51.40	0.65	0.72	3281.83	3282.30
MW-12	2/6/2012	3333.88	52.28	51.73	0.55	0.72	3281.60	3282.00
MW-12	8/7/2012	3333.88	52.19	51.38	0.81	0.72	3281.69	3282.27
MW-12	2/5/2013	3333.88	52.05	51.35	0.7	0.72	3281.83	3282.33
MW-12	8/5/2013	3333.88	52.01	51.30	0.71	0.72	3281.87	3282.38
MW-12	2/3/2014	3333.88	51.99	51.29	0.7	0.72	3281.89	3282.39
MW-12	8/5/2014	3333.88	52.12	51.43	0.69	0.72	3281.76	3282.26
MW-12	2/2/2015	3333.88	56.11	54.03	2.08	0.72	3277.77	3279.27
MW-12	8/3/2015	3333.88	51.01	50.78	0.23	0.72	3282.87	3283.04
MW-12	3/29/2016	3333.88	51.00	50.44	0.56	0.72	3282.88	3283.28
MW-12	9/13/2016	3333.88	50.97	50.58	0.39	0.72	3282.91	3283.19
MW-12	4/3/2017	3333.88	51.14	50.30	0.84	0.72	3282.74	3283.34

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Appendix C
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Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MW-12	3/13/2018	3333.88	50.86	50.29	0.57	0.72	3283.02	3283.43
MW-12	9/24/2018	3333.88	NM	50.29	NA	0.72	NM	NM
MW-12	10/1/2019	3333.88	51.03	50.51	0.52	0.72	3282.85	3283.22
MW-12	3/17/2020	3333.88	51.16	50.41	0.75	0.72	3282.72	3283.26
MW-12	3/15/2021	3333.88	51.33	50.23	1.1	0.72	3282.55	3283.34
MW-12	9/29/2021	3333.88	51.29	50.25	1.04	0.72	3282.59	3283.34
MW-12	2/22/2022	3333.88	51.19	50.22	0.97	0.72	3282.69	3283.39
MW-12	2/28/2023	3333.88	51.36	50.21	1.15	0.72	3282.52	3283.35
MW-13	2/9/2009	3336.15	56.30	NM	NA	NA	3279.85	3279.85
MW-13	8/4/2009	3336.15	56.30	NM	NA	NA	3279.85	3279.85
MW-13	2/2/2010	3336.15	56.31	NM	NA	NA	3279.84	3279.84
MW-13	8/2/2010	3336.15	56.47	NM	NA	NA	3279.68	3279.68
MW-13	4/4/2011	3336.15	56.47	NM	NA	NA	3279.68	3279.68
MW-13	8/8/2011	3336.15	NM	NM	NA	NA	NM	NM
MW-13	2/6/2012	3336.15	56.36	NM	NA	NA	3279.79	3279.79
MW-13	8/6/2012	3336.15	56.42	NM	NA	NA	3279.73	3279.73
MW-13	2/5/2013	3336.15	56.37	NM	NA	NA	3279.78	3279.78
MW-13	8/5/2013	3336.15	56.34	NM	NA	NA	3279.81	3279.81
MW-13	2/3/2014	3336.15	56.27	NM	NA	NA	3279.88	3279.88
MW-13	8/5/2014	3336.15	56.36	NM	NA	NA	3279.79	3279.79
MW-13	2/2/2015	3336.15	56.13	NM	NA	NA	3280.02	3280.02
MW-13	8/3/2015	3336.15	55.95	NM	NA	NA	3280.20	3280.20
MW-13	3/29/2016	3336.15	55.85	NM	NA	NA	3280.30	3280.30
MW-13	9/6/2016	3336.15	58.80	NM	NA	NA	3277.35	3277.35
MW-13	4/3/2017	3336.15	55.66	NM	NA	NA	3280.49	3280.49
MW-13	9/11/2017	3336.15	55.44	NM	NA	NA	3280.71	3280.71
MW-13	3/13/2018	3336.15	55.66	NM	NA	NA	3280.49	3280.49
MW-13	9/24/2018	3336.15	55.80	NM	NA	NA	3280.35	3280.35
MW-13	4/1/2019	3336.15	55.59	NM	NA	NA	3280.56	3280.56
MW-13	10/1/2019	3336.15	55.61	NM	NA	NA	3280.54	3280.54
MW-13	3/16/2020	3336.15	55.64	NM	NA	NA	3280.51	3280.51
MW-13	3/16/2021	3336.15	55.56	NM	NA	NA	3280.59	3280.59
MW-13	9/20/2021	3336.15	55.56	NM	NA	NA	3280.59	3280.59
MW-13	2/22/2022	3336.15	54.95	NM	NA	NA	3281.20	3281.20
MW-13	2/28/2023	3336.15	55.57	NM	NA	NA	3280.58	3280.58
MW-14	2/9/2009	3333.04	52.63	NM	NA	NA	3280.41	3280.41
MW-14	8/4/2009	3333.04	52.72	NM	NA	NA	3280.32	3280.32
MW-14	2/2/2010	3333.04	52.77	NM	NA	NA	3280.27	3280.27
MW-14	8/2/2010	3333.04	52.90	NM	NA	NA	3280.14	3280.14
MW-14	4/4/2011	3333.04	52.91	NM	NA	NA	3280.13	3280.13
MW-14	8/8/2011	3333.04	52.85	NM	NA	NA	3280.19	3280.19
MW-14	2/6/2012	3333.04	52.82	NM	NA	NA	3280.22	3280.22
MW-14	8/7/2012	3333.04	51.97	NM	NA	NA	3281.07	3281.07
MW-14	2/5/2013	3333.04	52.82	NM	NA	NA	3280.22	3280.22
MW-14	8/5/2013	3333.04	52.79	NM	NA	NA	3280.25	3280.25
MW-14	2/3/2014	3333.04	52.71	NM	NA	NA	3280.33	3280.33
MW-14	8/5/2014	3333.04	52.77	NM	NA	NA	3280.27	3280.27
MW-14	2/2/2015	3333.04	52.33	NM	NA	NA	3280.71	3280.71
MW-14	8/3/2015	3333.04	52.18	NM	NA	NA	3280.86	3280.86
MW-14	3/29/2016	3333.04	52.05	NM	NA	NA	3280.99	3280.99
MW-14	9/6/2016	3333.04	52.03	NM	NA	NA	3281.01	3281.01
MW-14	4/3/2017	3333.04	51.93	NM	NA	NA	3281.11	3281.11
MW-14	9/11/2017	3333.04	51.89	NM	NA	NA	3281.15	3281.15
MW-14	3/14/2018	3333.04	51.86	NM	NA	NA	3281.18	3281.18
MW-14	9/24/2018	3333.04	51.94	NM	NA	NA	3281.10	3281.10
MW-14	4/1/2019	3333.04	51.90	NM	NA	NA	3281.14	3281.14
MW-14	10/1/2019	3333.04	51.99	NM	NA	NA	3281.05	3281.05
MW-14	3/16/2020	3333.04	51.99	NM	NA	NA	3281.05	3281.05
MW-14	3/16/2021	3333.04	51.94	NM	NA	NA	3281.10	3281.10
MW-14	9/20/2021	3333.04	51.88	NM	NA	NA	3281.16	3281.16
MW-14	2/22/2022	3333.04	52.15	NM	NA	NA	3280.89	3280.89
MW-14	2/28/2023	3333.04	51.93	NM	NA	NA	3281.11	3281.11
MW-15	2/9/2009	3328.98	49.60	NM	NA	NA	3279.38	3279.38
MW-15	8/4/2009	3328.98	48.75	NM	NA	NA	3280.23	3280.23
MW-15	2/2/2010	3328.98	48.89	NM	NA	NA	3280.09	3280.09
MW-15	8/2/2010	3328.98	49.19	NM	NA	NA	3279.79	3279.79
MW-15	4/4/2011	3328.98	48.62	NM	NA	NA	3280.36	3280.36
MW-15	8/8/2011	3328.98	48.44	NM	NA	NA	3280.54	3280.54
MW-15	2/6/2012	3328.98	48.28	NM	NA	NA	3280.70	3280.70
MW-15	8/7/2012	3328.98	48.29	NM	NA	NA	3280.69	3280.69
MW-15	2/5/2013	3328.98	48.18	NM	NA	NA	3280.80	3280.80
MW-15	8/5/2013	3328.98	48.12	NM	NA	NA	3280.86	3280.86
MW-15	2/3/2014	3328.98	48.08	NM	NA	NA	3280.90	3280.90
MW-15	8/5/2014	3328.98	48.22	NM	NA	NA	3280.76	3280.76
MW-15	2/2/2015	3328.98	47.30	NM	NA	NA	3281.68	3281.68
MW-15	8/3/2015	3328.98	47.31	NM	NA	NA	3281.67	3281.67

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Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MW-15	3/28/2016	3328.98	47.17	NM	NA	NA	3281.81	3281.81
MW-15	9/6/2016	3328.98	47.17	NM	NA	NA	3281.81	3281.81
MW-15	4/3/2017	3328.98	47.02	NM	NA	NA	3281.96	3281.96
MW-15	9/11/2017	3328.98	47.02	NM	NA	NA	3281.96	3281.96
MW-15	3/12/2018	3328.98	47.00	NM	NA	NA	3281.98	3281.98
MW-15	9/24/2018	3328.98	47.14	NM	NA	NA	3281.84	3281.84
MW-15	4/1/2019	3328.98	47.08	NM	NA	NA	3281.90	3281.90
MW-15	10/1/2019	3328.98	47.16	NM	NA	NA	3281.82	3281.82
MW-15	3/16/2020	3328.98	47.2	NM	NA	NA	3281.78	3281.78
MW-15	9/22/2020	3328.98	47.08	NM	NA	NA	3281.90	3281.90
MW-15	3/16/2021	3328.98	46.97	NM	NA	NA	3282.01	3282.01
MW-15	9/20/2021	3328.98	46.97	NM	NA	NA	3282.01	3282.01
MW-15	2/22/2022	3328.98	47.27	NM	NA	NA	3281.71	3281.71
MW-15	9/27/2022	3328.98	36.98	NM	NA	NA	3292.00	3292.00
MW-15	2/28/2023	3328.98	46.95	NM	NA	NA	3282.03	3282.03
MW-15	10/30/2023	3328.98	47.02	NM	NA	NA	3281.96	3281.96
MW-16	2/9/2009	3330.2	49.45	NM	NA	NA	3280.75	3280.75
MW-16	8/4/2009	3330.2	49.58	NM	NA	NA	3280.62	3280.62
MW-16	2/2/2010	3330.2	49.68	NM	NA	NA	3280.52	3280.52
MW-16	8/2/2010	3330.2	49.87	NM	NA	NA	3280.33	3280.33
MW-16	4/4/2011	3330.2	49.34	NM	NA	NA	3280.86	3280.86
MW-16	8/8/2011	3330.2	49.81	NM	NA	NA	3280.39	3280.39
MW-16	2/6/2012	3330.2	46.45	NM	NA	NA	3283.75	3283.75
MW-16	8/17/2012	3330.2	48.96	NM	NA	NA	3281.24	3281.24
MW-16	2/5/2013	3330.2	48.90	NM	NA	NA	3281.30	3281.30
MW-16	8/5/2013	3330.2	48.82	NM	NA	NA	3281.38	3281.38
MW-16	2/3/2014	3330.2	48.77	NM	NA	NA	3281.43	3281.43
MW-16	8/5/2014	3330.2	48.97	NM	NA	NA	3281.23	3281.23
MW-16	2/2/2015	3330.2	48.60	NM	NA	NA	3281.60	3281.60
MW-16	8/3/2015	3330.2	47.58	NM	NA	NA	3282.62	3282.62
MW-16	3/28/2016	3330.2	48.30	NM	NA	NA	3281.90	3281.90
MW-16	9/6/2016	3330.2	48.20	NM	NA	NA	3282.00	3282.00
MW-16	4/3/2017	3330.2	48.15	NM	NA	NA	3282.05	3282.05
MW-16	9/11/2017	3330.2	48.05	NM	NA	NA	3282.15	3282.15
MW-16	3/12/2018	3330.2	47.97	NM	NA	NA	3282.23	3282.23
MW-16	9/24/2018	3330.2	46.00	NM	NA	NA	3284.20	3284.20
MW-16	4/1/2019	3330.2	47.90	NM	NA	NA	3282.30	3282.30
MW-16	10/1/2019	3330.2	47.99	NM	NA	NA	3282.21	3282.21
MW-16	3/16/2020	3330.2	47.97	NM	NA	NA	3282.23	3282.23
MW-16	9/24/2020	3330.2	47.78	NM	NA	NA	3282.42	3282.42
MW-16	3/16/2021	3330.2	47.76	NM	NA	NA	3282.44	3282.44
MW-16	9/20/2021	3330.2	47.68	NM	NA	NA	3282.52	3282.52
MW-16	2/22/2022	3330.2	47.27	NM	NA	NA	3282.93	3282.93
MW-16	9/27/2022	3330.2	47.05	NM	NA	NA	3283.15	3283.15
MW-16	2/28/2023	3330.2	48.65	NM	NA	NA	3281.55	3281.55
MW-16	10/30/2023	3330.2	47.72	NM	NA	NA	3282.48	3282.48
MW-17	2/11/2009	3334.32	52.75	NM	NA	NA	3281.57	3281.57
MW-17	8/4/2009	3334.32	52.88	NM	NA	NA	3281.44	3281.44
MW-17	2/2/2010	3334.32	52.98	NM	NA	NA	3281.34	3281.34
MW-17	8/2/2010	3334.32	53.10	NM	NA	NA	3281.22	3281.22
MW-17	4/4/2011	3334.32	52.29	NM	NA	NA	3282.03	3282.03
MW-17	8/8/2011	3334.32	52.11	NM	NA	NA	3282.21	3282.21
MW-17	2/6/2012	3334.32	52.00	NM	NA	NA	3282.32	3282.32
MW-17	8/7/2012	3334.32	51.89	NM	NA	NA	3282.43	3282.43
MW-17	2/5/2013	3334.32	51.81	NM	NA	NA	3282.51	3282.51
MW-17	8/5/2013	3334.32	51.90	NM	NA	NA	3282.42	3282.42
MW-17	2/3/2014	3334.32	51.72	NM	NA	NA	3282.60	3282.60
MW-17	8/5/2014	3334.32	52.26	NM	NA	NA	3282.06	3282.06
MW-17	2/2/2015	3334.32	51.92	NM	NA	NA	3282.40	3282.40
MW-17	8/3/2015	3334.32	51.90	NM	NA	NA	3282.42	3282.42
MW-17	3/28/2016	3334.32	51.71	NM	NA	NA	3282.61	3282.61
MW-17	9/9/2016	3334.32	51.65	NM	NA	NA	3282.67	3282.67
MW-17	4/3/2017	3334.32	51.67	NM	NA	NA	3282.65	3282.65
MW-17	9/12/2017	3334.32	51.61	NM	NA	NA	3282.71	3282.71
MW-17	3/12/2018	3334.32	51.35	NM	NA	NA	3282.97	3282.97
MW-17	9/24/2018	3334.32	51.35	NM	NA	NA	3282.97	3282.97
MW-17	4/1/2019	3334.32	51.22	NM	NA	NA	3283.10	3283.10
MW-17	10/1/2019	3334.32	51.41	NM	NA	NA	3282.91	3282.91
MW-17	3/16/2020	3334.32	49.99	NM	NA	NA	3284.33	3284.33
MW-17	9/22/2020	3334.32	50.78	NM	NA	NA	3283.54	3283.54
MW-17	3/18/2021	3334.32	50.75	NM	NA	NA	3283.57	3283.57
MW-17	9/20/2021	3334.32	50.67	NM	NA	NA	3283.65	3283.65
MW-17	2/22/2022	3334.32	50.69	NM	NA	NA	3283.63	3283.63
MW-17	9/27/2022	3334.32	50.69	NM	NA	NA	3283.63	3283.63
MW-17	2/28/2023	3334.32	50.61	NM	NA	NA	3283.71	3283.71
MW-17	10/30/2023	3334.32	50.68	NM	NA	NA	3283.64	3283.64

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Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MW-18	2/10/2009	3336.1	53.38	NM	NA	NA	3282.72	3282.72
MW-18	8/4/2009	3336.1	53.27	NM	NA	NA	3282.83	3282.83
MW-18	2/2/2010	3336.1	53.47	NM	NA	NA	3282.63	3282.63
MW-18	8/2/2010	3336.1	53.43	NM	NA	NA	3282.67	3282.67
MW-18	4/4/2011	3336.1	53.07	NM	NA	NA	3283.03	3283.03
MW-18	8/8/2011	3336.1	52.93	NM	NA	NA	3283.17	3283.17
MW-18	2/6/2012	3336.1	52.89	NM	NA	NA	3283.21	3283.21
MW-18	8/7/2012	3336.1	52.81	NM	NA	NA	3283.29	3283.29
MW-18	2/5/2013	3336.1	52.80	NM	NA	NA	3283.30	3283.30
MW-18	8/5/2013	3336.1	52.86	NM	NA	NA	3283.24	3283.24
MW-18	2/3/2014	3336.1	52.69	NM	NA	NA	3283.41	3283.41
MW-18	8/5/2014	3336.1	52.82	NM	NA	NA	3283.28	3283.28
MW-18	8/3/2015	3336.1	52.50	NM	NA	NA	3283.60	3283.60
MW-18	3/29/2016	3336.1	52.37	NM	NA	NA	3283.73	3283.73
MW-18	9/12/2016	3336.1	52.38	NM	NA	NA	3283.72	3283.72
MW-18	4/3/2017	3336.1	52.23	NM	NA	NA	3283.87	3283.87
MW-18	3/12/2018	3336.1	52.08	NM	NA	NA	3284.02	3284.02
MW-18	9/24/2018	3336.1	NM	NM	NA	NA	NM	NM
MW-18	3/16/2020	3336.1	51.98	NM	NA	NA	3284.12	3284.12
MW-18	3/16/2021	3336.1	NM	NM	NA	NA	NM	NM
MW-18	2/28/2023	3336.1	51.74	NM	NA	NA	3284.36	3284.36
MW-19	2/18/2009	3334.21	53.42	52.44	0.98	0.82	3280.79	3281.59
MW-19	3/18/2009	3334.21	53.51	52.51	1	0.82	3280.70	3281.52
MW-19	8/5/2009	3334.21	52.81	NM	NA	0.82	3281.40	3281.40
MW-19	2/2/2010	3334.21	53.02	53.00	0.02	0.82	3281.19	3281.21
MW-19	8/2/2010	3334.21	53.19	NM	NA	0.82	3281.02	3281.02
MW-19	4/4/2011	3334.21	52.57	NM	NA	0.82	3281.64	3281.64
MW-19	8/8/2011	3334.21	NM	NM	NA	0.82	NM	NM
MW-19	2/6/2012	3334.21	53.09	53.07	0.02	0.82	3281.12	3281.14
MW-19	8/7/2012	3334.21	52.42	NM	NA	0.82	3281.79	3281.79
MW-19	2/5/2013	3334.21	52.50	NM	NA	0.82	3281.71	3281.71
MW-19	8/5/2013	3334.21	52.48	NM	NA	0.82	3281.73	3281.73
MW-19	2/3/2014	3334.21	52.48	NM	NA	0.82	3281.73	3281.73
MW-19	8/5/2014	3334.21	52.71	NM	NA	0.82	3281.50	3281.50
MW-19	2/2/2015	3334.21	51.41	51.40	0.01	0.82	3282.80	3282.81
MW-19	8/3/2015	3334.21	52.26	51.36	0.9	0.82	3281.95	3282.69
MW-19	3/29/2016	3334.21	52.64	51.06	1.58	0.82	3281.57	3282.87
MW-19	9/13/2016	3334.21	51.99	51.19	0.8	0.82	3282.22	3282.88
MW-19	4/3/2017	3334.21	52.51	50.94	1.57	0.82	3281.70	3282.99
MW-19	3/15/2018	3334.21	52.04	50.82	1.22	0.82	3282.17	3283.17
MW-19	9/24/2018	3334.21	NM	50.82	NA	0.82	NM	NM
MW-19	4/1/2019	3334.21	52.26	50.93	1.33	0.82	3281.95	3283.04
MW-19	3/17/2020	3334.21	52.61	51.07	1.54	0.82	3281.60	3282.86
MW-19	3/15/2021	3334.21	52.49	50.91	1.58	0.82	3281.72	3283.02
MW-19	9/20/2021	3334.21	52.26	50.69	1.57	0.82	3281.95	3283.24
MW-19	2/22/2022	3334.21	51.71	49.92	1.79	0.82	3282.50	3283.97
MW-19	2/28/2023	3334.21	52.30	50.88	1.42	0.82	3281.91	3283.07
MW-20	2/4/2009	3334.06	54.37	52.44	1.93	0.82	3279.69	3281.27
MW-20	3/18/2009	3334.06	56.92	52.25	4.67	0.82	3277.14	3280.97
MW-20	3/25/2009	3334.06	57.44	52.19	5.25	0.82	3276.62	3280.93
MW-20	8/5/2009	3334.06	55.82	52.65	3.17	0.82	3278.24	3280.84
MW-20	2/2/2010	3334.06	56.91	52.75	4.16	0.82	3277.15	3280.56
MW-20	8/2/2010	3334.06	53.84	53.69	0.15	0.82	3280.22	3280.34
MW-20	4/4/2011	3334.06	55.80	52.84	2.96	0.82	3278.26	3280.69
MW-20	8/8/2011	3334.06	NM	NM	NA	0.82	NM	NM
MW-20	2/6/2012	3334.06	56.97	52.87	4.1	0.82	3277.09	3280.45
MW-20	8/7/2012	3334.06	55.27	51.63	3.64	0.82	3278.79	3281.77
MW-20	2/5/2013	3334.06	55.84	51.25	4.59	0.82	3278.22	3281.98
MW-20	8/5/2013	3334.06	55.87	51.61	4.26	0.82	3278.19	3281.68
MW-20	2/3/2014	3334.06	55.64	51.52	4.12	0.82	3278.42	3281.80
MW-20	8/5/2014	3334.06	56.14	51.86	4.28	0.82	3277.92	3281.43
MW-20	2/12/2015	3334.06	54.48	50.98	3.5	0.82	3279.58	3282.45
MW-20	8/3/2015	3334.06	54.58	50.98	3.6	0.82	3279.48	3282.43
MW-20	3/29/2016	3334.06	54.37	50.80	3.57	0.82	3279.69	3282.62
MW-20	9/13/2016	3334.06	53.87	50.70	3.17	0.82	3280.19	3282.79
MW-20	4/3/2017	3334.06	54.18	50.69	3.49	0.82	3279.88	3282.74
MW-20	3/15/2018	3334.06	53.90	50.60	3.3	0.82	3280.16	3282.87
MW-20	9/24/2018	3334.06	NM	50.60	NA	0.82	NM	NM
MW-20	10/1/2019	3334.06	54.61	50.91	3.7	0.82	3279.45	3282.48
MW-20	3/17/2020	3334.06	54.03	50.92	3.11	0.82	3280.03	3282.58
MW-20	3/15/2021	3334.06	53.52	51.58	1.94	0.82	3280.54	3282.13
MW-20	10/6/2021	3334.06	52.94	50.40	2.54	0.82	3281.12	3283.20
MW-20	2/22/2022	3334.06	53.24	50.57	2.67	0.82	3280.82	3283.01
MW-20	2/28/2023	3334.06	53.38	50.55	2.83	0.82	3280.68	3283.00
MW-21	2/18/2009	3333.02	51.89	51.86	0.03	0.82	3281.13	3281.15
MW-21	8/5/2009	3333.02	52.13	52.12	0.01	0.82	3280.89	3280.90

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Appendix C
Historical Groundwater Elevations
2021 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MW-21	2/2/2010	3333.02	52.33	NM	NA	0.82	3280.69	3280.69
MW-21	8/2/2010	3333.02	52.75	NM	NA	0.82	3280.27	3280.27
MW-21	4/4/2011	3333.02	51.23	NM	NA	0.82	3281.79	3281.79
MW-21	8/8/2011	3333.02	NM	NM	NA	0.82	NM	NM
MW-21	2/6/2012	3333.02	52.42	52.38	0.04	0.82	3280.60	3280.63
MW-21	8/7/2012	3333.02	51.41	NM	NA	0.82	3281.61	3281.61
MW-21	2/5/2013	3333.02	51.50	NM	NA	0.82	3281.52	3281.52
MW-21	8/15/2013	3333.02	51.53	NM	NA	0.82	3281.49	3281.49
MW-21	2/3/2014	3333.02	51.31	NM	NA	0.82	3281.71	3281.71
MW-21	8/5/2014	3333.02	51.70	51.64	0.06	0.82	3281.32	3281.37
MW-21	2/2/2015	3333.02	50.39	50.36	0.03	0.82	3282.63	3282.65
MW-21	8/3/2015	3333.02	50.40	50.38	0.02	0.82	3282.62	3282.64
MW-21	3/29/2016	3333.02	51.07	50.39	0.68	0.82	3281.95	3282.51
MW-21	9/13/2016	3333.02	50.88	50.21	0.67	0.82	3282.14	3282.69
MW-21	4/3/2017	3333.02	51.67	50.00	1.67	0.82	3281.35	3282.72
MW-21	3/15/2018	3333.02	50.92	50.04	0.88	0.82	3282.10	3282.82
MW-21	9/24/2018	3333.02	NM	50.04	NA	0.82	NM	NM
MW-21	4/1/2019	3333.02	51.00	50.15	0.85	0.82	3282.02	3282.72
MW-21	10/1/2019	3333.02	51.90	50.32	1.58	0.82	3281.12	3282.42
MW-21	3/17/2020	3333.02	52.15	50.18	1.97	0.82	3280.87	3282.49
MW-21	3/15/2021	3333.02	52.60	49.87	2.73	0.82	3280.42	3282.66
MW-21	9/20/2021	3333.02	52.58	49.69	2.89	0.82	3280.44	3282.81
MW-21	2/22/2022	3333.02	51.49	49.82	1.67	0.82	3281.53	3282.90
MW-21	2/28/2023	3333.02	52.32	49.90	2.42	0.82	3280.70	3282.68
MW-22	2/11/2009	3334.87	55.04	NM	NA	NA	3279.83	3279.83
MW-22	8/5/2009	3334.87	54.55	NM	NA	NA	3280.32	3280.32
MW-22	2/2/2010	3334.87	55.45	NM	NA	NA	3279.42	3279.42
MW-22	8/2/2010	3334.87	55.77	NM	NA	NA	3279.10	3279.10
MW-22	4/4/2011	3334.87	53.60	NM	NA	NA	3281.27	3281.27
MW-22	8/8/2011	3334.87	53.38	NM	NA	NA	3281.49	3281.49
MW-22	2/6/2012	3334.87	53.30	NM	NA	NA	3281.57	3281.57
MW-22	8/7/2012	3334.87	53.15	NM	NA	NA	3281.72	3281.72
MW-22	2/5/2013	3334.87	53.11	NM	NA	NA	3281.76	3281.76
MW-22	8/5/2013	3334.87	53.20	NM	NA	NA	3281.67	3281.67
MW-22	2/3/2014	3334.87	53.05	NM	NA	NA	3281.82	3281.82
MW-22	8/5/2014	3334.87	54.30	NM	NA	NA	3280.57	3280.57
MW-22	2/2/2015	3334.87	52.85	NM	NA	NA	3282.02	3282.02
MW-22	8/3/2015	3334.87	52.80	NM	NA	NA	3282.07	3282.07
MW-22	3/28/2016	3334.87	53.06	NM	NA	NA	3281.81	3281.81
MW-22	9/9/2016	3334.87	52.48	NM	NA	NA	3282.39	3282.39
MW-22	4/3/2017	3334.87	52.65	NM	NA	NA	3282.22	3282.22
MW-22	3/12/2018	3334.87	52.44	NM	NA	NA	3282.43	3282.43
MW-22	9/24/2018	3334.87	NM	NM	NA	NA	NM	NM
MW-22	4/1/2019	3334.87	52.24	NM	NA	NA	3282.63	3282.63
MW-22	3/16/2020	3334.87	52.37	NM	NA	NA	3282.50	3282.50
MW-22	3/18/2021	3334.87	52.95	NM	NA	NA	3281.92	3281.92
MW-22	9/20/2021	3334.87	51.83	NM	NA	NA	3283.04	3283.04
MW-22	2/22/2022	3334.87	51.88	NM	NA	NA	3282.99	3282.99
MW-22	2/28/2023	3334.87	51.89	NM	NA	NA	3282.98	3282.98
MW-23	2/11/2009	3334.45	54.39	NM	NA	NA	3280.06	3280.06
MW-23	8/4/2009	3334.45	54.25	NM	NA	NA	3280.20	3280.20
MW-23	2/2/2010	3334.45	55.04	NM	NA	NA	3279.41	3279.41
MW-23	8/2/2010	3334.45	55.16	NM	NA	NA	3279.29	3279.29
MW-23	4/4/2011	3334.45	52.86	NM	NA	NA	3281.59	3281.59
MW-23	8/8/2011	3334.45	52.62	NM	NA	NA	3281.83	3281.83
MW-23	2/6/2012	3334.45	52.50	NM	NA	NA	3281.95	3281.95
MW-23	8/17/2012	3334.45	53.25	NM	NA	NA	3281.20	3281.20
MW-23	2/5/2013	3334.45	52.31	NM	NA	NA	3282.14	3282.14
MW-23	8/5/2013	3334.45	52.38	NM	NA	NA	3282.07	3282.07
MW-23	2/3/2014	3334.45	52.21	NM	NA	NA	3282.24	3282.24
MW-23	8/5/2014	3334.45	54.41	NM	NA	NA	3280.04	3280.04
MW-23	2/2/2015	3334.45	52.82	NM	NA	NA	3281.63	3281.63
MW-23	8/3/2015	3334.45	53.90	NM	NA	NA	3280.55	3280.55
MW-23	3/28/2016	3334.45	53.21	NM	NA	NA	3281.24	3281.24
MW-23	9/9/2016	3334.45	52.92	NM	NA	NA	3281.53	3281.53
MW-23	4/3/2017	3334.45	53.24	NM	NA	NA	3281.21	3281.21
MW-23	3/12/2018	3334.45	52.01	NM	NA	NA	3282.44	3282.44
MW-23	9/24/2018	3334.45	NM	NM	NA	NA	NM	NM
MW-23	3/16/2020	3334.45	51.55	NM	NA	NA	3282.90	3282.90
MW-23	3/15/2021	3334.45	51.17	NM	NA	NA	3283.28	3283.28
MW-23	9/20/2021	3334.45	51.09	NM	NA	NA	3283.36	3283.36
MW-23	2/22/2022	3334.45	51.10	NM	NA	NA	3283.35	3283.35
MW-23	2/28/2023	3334.45	51.07	NM	NA	NA	3283.38	3283.38
MW-24	2/18/2009	3336.97	54.16	NM	NA	0.74	3282.81	3282.81
MW-24	8/4/2009	3336.97	54.26	54.25	0.01	0.74	3282.71	3282.72
MW-24	2/2/2010	3336.97	54.38	NM	NA	0.74	3282.59	3282.59

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Appendix C
Historical Groundwater Elevations
2021 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MW-24	8/2/2010	3336.97	54.38	NM	NA	0.74	3282.59	3282.59
MW-24	4/4/2011	3336.97	54.23	NM	NA	0.74	3282.74	3282.74
MW-24	8/8/2011	3336.97	54.20	NM	NA	0.74	3282.77	3282.77
MW-24	2/6/2012	3336.97	54.25	NM	NA	0.74	3282.72	3282.72
MW-24	8/27/2012	3336.97	54.22	NM	NA	0.74	3282.75	3282.75
MW-24	2/5/2013	3336.97	54.20	NM	NA	0.74	3282.77	3282.77
MW-24	8/5/2013	3336.97	54.15	NM	NA	0.74	3282.82	3282.82
MW-24	2/3/2014	3336.97	54.12	NM	NA	0.74	3282.85	3282.85
MW-24	8/5/2014	3336.97	54.18	NM	NA	0.74	3282.79	3282.79
MW-24	2/2/2015	3336.97	53.71	NM	NA	0.74	3283.26	3283.26
MW-24	8/3/2015	3336.97	53.68	NM	NA	0.74	3283.29	3283.29
MW-24	3/29/2016	3336.97	53.45	NM	NA	0.74	3283.52	3283.52
MW-24	9/12/2016	3336.97	53.43	NM	NA	0.74	3283.54	3283.54
MW-24	4/3/2017	3336.97	53.32	NM	NA	0.74	3283.65	3283.65
MW-24	9/12/2017	3336.97	53.33	NM	NA	0.74	3283.64	3283.64
MW-24	3/13/2018	3336.97	53.29	NM	NA	0.74	3283.68	3283.68
MW-24	9/24/2018	3336.97	53.46	NM	NA	0.74	3283.51	3283.51
MW-24	4/1/2019	3336.97	53.28	NM	NA	0.74	3283.69	3283.69
MW-24	10/1/2019	3336.97	53.38	NM	NA	0.74	3283.59	3283.59
MW-24	3/16/2020	3336.97	53.35	NM	NA	0.74	3283.62	3283.62
MW-24	3/15/2021	3336.97	NM	NM	NA	0.74	NM	NM
MW-24	9/24/2021	3336.97	53.27	NM	NA	NA	3283.70	3283.70
MW-24	2/22/2022	3336.97	53.49	NM	NA	0.74	3283.48	3283.48
MW-24	9/27/2022	3336.97	53.27	NM	NA	NA	3283.70	3283.70
MW-24	2/28/2023	3336.97	53.23	NM	NA	NA	3283.74	3283.74
MW-24	10/30/2023	3336.97	53.26	NM	NA	NA	3283.71	3283.71
MW-25	2/12/2009	3336.31	52.16	NM	NA	NA	3284.15	3284.15
MW-25	8/5/2009	3336.31	52.00	NM	NA	NA	3284.31	3284.31
MW-25	2/2/2010	3336.31	52.48	NM	NA	NA	3283.83	3283.83
MW-25	8/2/2010	3336.31	52.49	NM	NA	NA	3283.82	3283.82
MW-25	4/4/2011	3336.31	52.15	NM	NA	NA	3284.16	3284.16
MW-25	8/8/2011	3336.31	52.08	NM	NA	NA	3284.23	3284.23
MW-25	2/6/2012	3336.31	52.15	NM	NA	NA	3284.16	3284.16
MW-25	2/5/2013	3336.31	52.08	NM	NA	NA	3284.23	3284.23
MW-25	8/5/2013	3336.31	51.97	NM	NA	NA	3284.34	3284.34
MW-25	2/3/2014	3336.31	51.97	NM	NA	NA	3284.34	3284.34
MW-25	8/5/2014	3336.31	52.04	NM	NA	NA	3284.27	3284.27
MW-25	2/2/2015	3336.31	51.40	NM	NA	NA	3284.91	3284.91
MW-25	8/3/2015	3336.31	51.40	NM	NA	NA	3284.91	3284.91
MW-25	3/29/2016	3336.31	51.15	NM	NA	NA	3285.16	3285.16
MW-25	9/12/2016	3336.31	51.23	NM	NA	NA	3285.08	3285.08
MW-25	4/3/2017	3336.31	51.01	NM	NA	NA	3285.30	3285.30
MW-25	9/12/2017	3336.31	51.01	NM	NA	NA	3285.30	3285.30
MW-25	3/13/2018	3336.31	51.07	NM	NA	NA	3285.24	3285.24
MW-25	9/24/2018	3336.31	51.18	NM	NA	NA	3285.13	3285.13
MW-25	4/1/2019	3336.31	51.02	NM	NA	NA	3285.29	3285.29
MW-25	10/1/2019	3336.31	51.21	NM	NA	NA	3285.10	3285.10
MW-25	3/16/2020	3336.31	51.08	NM	NA	NA	3285.23	3285.23
MW-25	9/23/2020	3336.31	51.04	NM	NA	NA	3285.27	3285.27
MW-25	3/19/2021	3336.31	51.05	NM	NA	NA	3285.26	3285.26
MW-25	9/27/2021	3336.31	50.88	NM	NA	NA	3285.43	3285.43
MW-25	2/22/2022	3336.31	51.09	NM	NA	NA	3285.22	3285.22
MW-25	9/27/2022	3336.31	51.03	NM	NA	NA	3285.28	3285.28
MW-25	2/28/2023	3336.31	50.98	NM	NA	NA	3285.33	3285.33
MW-25	10/30/2023	3336.31	51.04	NM	NA	NA	3285.27	3285.27
MW-26	2/17/2009	3334.93	52.47	NM	NA	0.72	3282.46	3282.46
MW-26	8/4/2009	3334.93	52.61	52.60	0.01	0.72	3282.32	3282.33
MW-26	2/2/2010	3334.93	52.75	NM	NA	0.72	3282.18	3282.18
MW-26	8/2/2010	3334.93	52.76	NM	NA	0.72	3282.17	3282.17
MW-26	4/4/2011	3334.93	52.60	NM	NA	0.72	3282.33	3282.33
MW-26	8/8/2011	3334.93	52.56	NM	NA	0.72	3282.37	3282.37
MW-26	2/6/2012	3334.93	52.65	NM	NA	0.72	3282.28	3282.28
MW-26	8/17/2012	3334.93	52.58	NM	NA	0.72	3282.35	3282.35
MW-26	2/5/2013	3334.93	52.55	NM	NA	0.72	3282.38	3282.38
MW-26	8/5/2013	3334.93	52.49	NM	NA	0.72	3282.44	3282.44
MW-26	2/3/2014	3334.93	52.46	NM	NA	0.72	3282.47	3282.47
MW-26	8/5/2014	3334.93	52.52	NM	NA	0.72	3282.41	3282.41
MW-26	2/2/2015	3334.93	51.95	NM	NA	0.72	3282.98	3282.98
MW-26	8/3/2015	3334.93	51.95	NM	NA	0.72	3282.98	3282.98
MW-26	3/29/2016	3334.93	51.69	NM	NA	0.72	3283.24	3283.24
MW-26	9/12/2016	3334.93	51.93	NM	NA	0.72	3283.00	3283.00
MW-26	4/3/2017	3334.93	52.58	NM	NA	0.72	3282.35	3282.35
MW-26	9/12/2017	3334.93	51.62	NM	NA	0.72	3283.31	3283.31
MW-26	3/13/2018	3334.93	51.60	51.58	0.02	0.72	3283.33	3283.34
MW-26	9/24/2018	3334.93	51.72	51.58	0.14	0.72	3283.21	3283.31
MW-26	4/1/2019	3334.93	51.59	NM	NA	0.72	3283.34	3283.34

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Appendix C
Historical Groundwater Elevations
2021 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MW-26	10/1/2019	3334.93	51.73	NM	NA	0.72	3283.20	3283.20
MW-26	3/16/2020	3334.93	51.67	NM	NA	0.72	3283.26	3283.26
MW-26	9/23/2020	3334.93	51.66	NM	NA	0.72	3283.27	3283.27
MW-26	3/19/2021	3334.93	51.96	NM	NA	0.72	3282.97	3282.97
MW-26	9/27/2021	3334.93	53.27	NM	NA	0.72	3281.66	3281.66
MW-26	2/22/2022	3334.93	51.79	NM	NA	0.72	3283.14	3283.14
MW-26	9/27/2022	3334.93	51.61	NM	NA	0.72	3283.32	3283.32
MW-26	2/28/2023	3334.93	51.62	NM	NA	0.72	3283.31	3283.31
MW-26	10/30/2023	3334.93	51.67	NM	NA	0.72	3283.26	3283.26
MW-27	2/17/2009	3334.96	52.51	NM	NA	0.72	3282.45	3282.45
MW-27	8/4/2009	3334.96	52.65	52.63	0.02	0.72	3282.31	3282.32
MW-27	2/2/2010	3334.96	52.84	52.81	0.03	0.72	3282.12	3282.14
MW-27	8/2/2010	3334.96	53.05	52.82	0.23	0.72	3281.91	3282.08
MW-27	4/4/2011	3334.96	54.90	52.18	2.72	0.72	3280.06	3282.02
MW-27	8/8/2011	3334.96	54.98	52.08	2.9	0.72	3279.98	3282.07
MW-27	2/6/2012	3334.96	58.15	53.87	4.28	0.72	3276.81	3279.89
MW-27	8/7/2012	3334.96	55.40	52.30	3.1	0.72	3279.56	3281.79
MW-27	2/5/2013	3334.96	55.05	52.01	3.04	0.72	3279.91	3282.10
MW-27	8/5/2013	3334.96	55.01	52.01	3	0.72	3279.95	3282.11
MW-27	2/3/2014	3334.96	54.88	51.94	2.94	0.72	3280.08	3282.20
MW-27	8/5/2014	3334.96	54.96	52.00	2.96	0.72	3280.00	3282.13
MW-27	2/2/2015	3334.96	52.42	51.78	0.64	0.72	3282.54	3283.00
MW-27	8/3/2015	3334.96	52.49	51.74	0.75	0.72	3282.47	3283.01
MW-27	3/29/2016	3334.96	51.50	NM	NA	0.72	3283.46	3283.46
MW-27	9/12/2016	3334.96	52.67	51.52	1.15	0.72	3282.29	3283.12
MW-27	4/3/2017	3334.96	52.33	51.4	0.93	0.72	3282.63	3283.30
MW-27	3/13/2018	3334.96	52.33	51.34	0.99	0.72	3282.63	3283.34
MW-27	9/24/2018	3334.96	NM	51.34	NA	0.72	NM	NM
MW-27	4/1/2019	3334.96	50.71	49.50	1.21	0.72	3284.25	3285.12
MW-27	10/1/2019	3334.96	50.86	49.61	1.25	0.72	3284.10	3285.00
MW-27	3/17/2020	3334.96	50.84	49.60	1.24	0.72	3284.12	3285.01
MW-27	3/15/2021	3334.96	53.62	52.19	1.43	0.72	3281.34	3282.37
MW-27	9/29/2021	3334.96	53.64	52.30	1.34	0.72	3281.32	3282.28
MW-27	2/22/2022	3334.96	53.44	52.14	1.3	0.72	3281.52	3282.46
MW-27	2/28/2023	3334.96	53.60	52.08	1.52	0.72	3281.36	3282.45
MW-28	3/9/2009	3333.04	57.65	53.6	4.05	0.72	3275.39	3278.31
MW-28	8/5/2009	3333.04	57.94	53.68	4.26	0.72	3275.10	3278.17
MW-28	2/2/2010	3333.04	58.13	53.85	4.28	0.72	3274.91	3277.99
MW-28	8/2/2010	3333.04	58.15	53.97	4.18	0.72	3274.89	3277.90
MW-28	4/4/2011	3333.04	57.44	53.78	3.66	0.72	3275.60	3278.24
MW-28	8/8/2011	3333.04	57.37	53.66	3.71	0.72	3275.67	3278.34
MW-28	2/6/2012	3333.04	58.22	53.84	4.38	0.72	3274.82	3277.97
MW-28	8/14/2012	3333.04	57.54	53.63	3.91	0.72	3275.50	3278.32
MW-28	2/5/2013	3333.04	57.42	53.61	3.81	0.72	3275.62	3278.36
MW-28	8/5/2013	3333.04	57.15	53.63	3.52	0.72	3275.89	3278.42
MW-28	2/3/2014	3333.04	56.86	53.67	3.19	0.72	3276.18	3278.48
MW-28	8/5/2014	3333.04	56.86	53.80	3.06	0.72	3276.18	3278.38
MW-28	2/2/2015	3333.04	55.65	53.80	1.85	0.72	3277.39	3278.72
MW-28	8/3/2015	3333.04	55.54	53.27	2.27	0.72	3277.50	3279.13
MW-28	3/29/2016	3333.04	NM	53.15	NA	0.72	NM	NM
MW-28	9/13/2016	3333.04	55.27	53.17	2.1	0.72	3277.77	3279.28
MW-28	4/3/2017	3333.04	55.02	53.00	2.02	0.72	3278.02	3279.47
MW-28	3/13/2018	3333.04	54.88	53.00	1.88	0.72	3278.16	3279.51
MW-28	9/24/2018	3333.04	NM	NM	NA	0.72	NM	NM
MW-28	4/1/2019	3333.04	54.94	53.05	1.89	0.72	3278.10	3279.46
MW-28	10/1/2019	3333.04	55.09	53.25	1.84	0.72	3277.95	3279.27
MW-28	3/17/2020	3333.04	54.98	53.22	1.76	0.72	3278.06	3279.33
MW-28	3/15/2021	3333.04	54.90	53.2	1.7	0.72	3278.14	3279.36
MW-28	9/29/2021	3333.04	57.85	53.17	NA	NA	3275.19	3275.19
MW-28	2/22/2022	3333.04	54.76	53.1	1.66	0.72	3278.28	3279.48
MW-28	2/28/2023	3333.04	54.70	53.17	1.53	0.72	3278.34	3279.44
MW-29	8/5/2009	3334.01	52.65	NM	NA	NA	3281.36	3281.36
MW-29	2/2/2010	3334.01	52.84	NM	NA	NA	3281.17	3281.17
MW-29	8/2/2010	3334.01	52.95	NM	NA	NA	3281.06	3281.06
MW-29	4/4/2011	3334.01	52.87	NM	NA	NA	3281.14	3281.14
MW-29	8/8/2011	3334.01	52.80	NM	NA	NA	3281.21	3281.21
MW-29	2/6/2012	3334.01	52.83	NM	NA	NA	3281.18	3281.18
MW-29	8/6/2012	3334.01	52.85	NM	NA	NA	3281.16	3281.16
MW-29	2/5/2013	3334.01	52.70	NM	NA	NA	3281.31	3281.31
MW-29	8/5/2013	3334.01	52.73	NM	NA	NA	3281.28	3281.28
MW-29	2/3/2014	3334.01	52.67	NM	NA	NA	3281.34	3281.34
MW-29	8/5/2014	3334.01	52.76	NM	NA	NA	3281.25	3281.25
MW-29	2/2/2015	3334.01	52.03	NM	NA	NA	3281.98	3281.98
MW-29	8/3/2015	3334.01	52.02	NM	NA	NA	3281.99	3281.99
MW-29	3/29/2016	3334.01	51.90	NM	NA	NA	3282.11	3282.11
MW-29	9/7/2016	3334.01	51.93	NM	NA	NA	3282.08	3282.08

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Appendix C
Historical Groundwater Elevations
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Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

ARCADIS

Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MW-29	4/3/2017	3334.01	51.77	NM	NA	NA	3282.24	3282.24
MW-29	9/11/2017	3334.01	51.81	NM	NA	NA	3282.20	3282.20
MW-29	3/15/2018	3334.01	51.79	NM	NA	NA	3282.22	3282.22
MW-29	9/24/2018	3334.01	51.92	NM	NA	NA	3282.09	3282.09
MW-29	4/1/2019	3334.01	51.82	NM	NA	NA	3282.19	3282.19
MW-29	10/1/2019	3334.01	51.92	NM	NA	NA	3282.09	3282.09
MW-29	3/16/2020	3334.01	51.93	NM	NA	NA	3282.08	3282.08
MW-29	9/24/2020	3334.01	51.88	NM	NA	NA	3282.13	3282.13
MW-29	3/16/2021	3334.01	51.94	NM	NA	NA	3282.07	3282.07
MW-29	9/27/2021	3334.01	51.81	NM	NA	NA	3282.20	3282.20
MW-29	2/22/2022	3334.01	52.15	NM	NA	NA	3281.86	3281.86
MW-29	9/27/2022	3334.01	51.97	NM	NA	NA	3282.04	3282.04
MW-29	2/28/2023	3334.01	51.91	NM	NA	NA	3282.10	3282.10
MW-29	10/30/2023	3334.01	51.98	NM	NA	NA	3282.03	3282.03
MW-30	2/4/2009	3336.49	55.26	NM	NA	NA	3281.23	3281.23
MW-30	8/4/2009	3336.49	55.31	NM	NA	NA	3281.18	3281.18
MW-30	2/2/2010	3336.49	55.43	NM	NA	NA	3281.06	3281.06
MW-30	8/2/2010	3336.49	55.51	NM	NA	NA	3280.98	3280.98
MW-30	4/4/2011	3336.49	55.47	NM	NA	NA	3281.02	3281.02
MW-30	8/8/2011	3336.49	55.40	NM	NA	NA	3281.09	3281.09
MW-30	2/6/2012	3336.49	55.41	NM	NA	NA	3281.08	3281.08
MW-30	8/6/2012	3336.49	55.45	NM	NA	NA	3281.04	3281.04
MW-30	2/5/2013	3336.49	55.35	NM	NA	NA	3281.14	3281.14
MW-30	8/5/2013	3336.49	55.37	NM	NA	NA	3281.12	3281.12
MW-30	2/3/2014	3336.49	55.29	NM	NA	NA	3281.20	3281.20
MW-30	8/5/2014	3336.49	55.34	NM	NA	NA	3281.15	3281.15
MW-30	2/2/2015	3336.49	54.90	NM	NA	NA	3281.59	3281.59
MW-30	8/3/2015	3336.49	54.85	NM	NA	NA	3281.64	3281.64
MW-30	3/29/2016	3336.49	54.76	NM	NA	NA	3281.73	3281.73
MW-30	9/6/2016	3336.49	54.69	NM	NA	NA	3281.80	3281.80
MW-30	4/3/2017	3336.49	54.62	NM	NA	NA	3281.87	3281.87
MW-30	9/11/2017	3336.49	54.59	NM	NA	NA	3281.90	3281.90
MW-30	3/12/2018	3336.49	54.54	NM	NA	NA	3281.95	3281.95
MW-30	9/24/2018	3336.49	54.63	NM	NA	NA	3281.86	3281.86
MW-30	4/1/2019	3336.49	54.54	NM	NA	NA	3281.95	3281.95
MW-30	10/1/2019	3336.49	54.65	NM	NA	NA	3281.84	3281.84
MW-30	3/16/2020	3336.49	54.62	NM	NA	NA	3281.87	3281.87
MW-30	9/24/2020	3336.49	54.55	NM	NA	NA	3281.94	3281.94
MW-30	3/16/2021	3336.49	54.59	NM	NA	NA	3281.90	3281.90
MW-30	9/27/2021	3336.49	54.51	NM	NA	NA	3281.98	3281.98
MW-30	2/22/2022	3336.49	54.49	NM	NA	NA	3282.00	3282.00
MW-30	9/27/2022	3336.49	54.60	NM	NA	NA	3281.89	3281.89
MW-30	2/28/2023	3336.49	54.56	NM	NA	NA	3281.93	3281.93
MW-30	10/30/2023	3336.49	52.85	NM	NA	NA	3283.64	3283.64
MW-31	2/9/2009	3334.52	53.78	NM	NA	NA	3280.74	3280.74
MW-31	8/5/2009	3334.52	53.83	NM	NA	NA	3280.69	3280.69
MW-31	2/2/2010	3334.52	53.91	NM	NA	NA	3280.61	3280.61
MW-31	8/2/2010	3334.52	54.05	NM	NA	NA	3280.47	3280.47
MW-31	4/4/2011	3334.52	54.00	NM	NA	NA	3280.52	3280.52
MW-31	8/8/2011	3334.52	53.94	NM	NA	NA	3280.58	3280.58
MW-31	2/6/2012	3334.52	53.95	NM	NA	NA	3280.57	3280.57
MW-31	8/6/2012	3334.52	53.99	NM	NA	NA	3280.53	3280.53
MW-31	2/5/2013	3334.52	53.90	NM	NA	NA	3280.62	3280.62
MW-31	8/5/2013	3334.52	53.88	NM	NA	NA	3280.64	3280.64
MW-31	2/3/2014	3334.52	53.83	NM	NA	NA	3280.69	3280.69
MW-31	8/5/2014	3334.52	53.88	NM	NA	NA	3280.64	3280.64
MW-31	2/2/2015	3334.52	53.48	NM	NA	NA	3281.04	3281.04
MW-31	8/3/2015	3334.52	53.35	NM	NA	NA	3281.17	3281.17
MW-31	3/29/2016	3334.52	53.27	NM	NA	NA	3281.25	3281.25
MW-31	9/6/2016	3334.52	53.23	NM	NA	NA	3281.29	3281.29
MW-31	4/3/2017	3334.52	53.12	NM	NA	NA	3281.40	3281.40
MW-31	9/11/2017	3334.52	53.11	NM	NA	NA	3281.41	3281.41
MW-31	3/13/2018	3334.52	53.08	NM	NA	NA	3281.44	3281.44
MW-31	9/24/2018	3334.52	51.12	NM	NA	NA	3283.40	3283.40
MW-31	4/1/2019	3334.52	53.06	NM	NA	NA	3281.46	3281.46
MW-31	10/1/2019	3334.52	53.13	NM	NA	NA	3281.39	3281.39
MW-31	3/16/2020	3334.52	53.13	NM	NA	NA	3281.39	3281.39
MW-31	3/16/2021	3334.52	53.09	NM	NA	NA	3281.43	3281.43
MW-31	9/20/2021	3334.52	53.05	NM	NA	NA	3281.47	3281.47
MW-31	2/22/2022	3334.52	53.73	NM	NA	NA	3280.79	3280.79
MW-31	2/28/2023	3334.52	53.09	NM	NA	NA	3281.43	3281.43
MW-32	2/4/2009	3333.01	51.28	NM	NA	NA	3281.73	3281.73
MW-32	8/4/2009	3333.01	51.44	NM	NA	NA	3281.57	3281.57
MW-32	2/2/2010	3333.01	51.64	NM	NA	NA	3281.37	3281.37
MW-32	8/2/2010	3333.01	51.74	NM	NA	NA	3281.27	3281.27
MW-32	4/4/2011	3333.01	51.59	NM	NA	NA	3281.42	3281.42

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Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MW-32	8/8/2011	3333.01	51.53	NM	NA	NA	3281.48	3281.48
MW-32	2/6/2012	3333.01	51.55	NM	NA	NA	3281.46	3281.46
MW-32	8/6/2012	3333.01	51.53	NM	NA	NA	3281.48	3281.48
MW-32	2/5/2013	3333.01	51.48	NM	NA	NA	3281.53	3281.53
MW-32	8/5/2013	3333.01	51.45	NM	NA	NA	3281.56	3281.56
MW-32	2/3/2014	3333.01	51.40	NM	NA	NA	3281.61	3281.61
MW-32	8/5/2014	3333.01	51.48	NM	NA	NA	3281.53	3281.53
MW-32	2/2/2015	3333.01	50.52	NM	NA	NA	3282.49	3282.49
MW-32	8/3/2015	3333.01	50.60	NM	NA	NA	3282.41	3282.41
MW-32	3/29/2016	3333.01	50.42	NM	NA	NA	3282.59	3282.59
MW-32	9/7/2016	3333.01	50.49	NM	NA	NA	3282.52	3282.52
MW-32	4/3/2017	3333.01	50.31	NM	NA	NA	3282.70	3282.70
MW-32	9/12/2017	3333.01	50.34	NM	NA	NA	3282.67	3282.67
MW-32	3/12/2018	3333.01	50.31	NM	NA	NA	3282.70	3282.70
MW-32	9/24/2018	3333.01	50.54	NM	NA	NA	3282.47	3282.47
MW-32	4/1/2019	3333.01	50.42	NM	NA	NA	3282.59	3282.59
MW-32	10/1/2019	3333.01	50.59	NM	NA	NA	3282.42	3282.42
MW-32	3/16/2020	3333.01	50.55	NM	NA	NA	3282.46	3282.46
MW-32	9/24/2020	3333.01	50.5	NM	NA	NA	3282.51	3282.51
MW-32	3/16/2021	3333.01	55.54	NM	NA	NA	3277.47	3277.47
MW-32	9/27/2021	3333.01	50.39	NM	NA	NA	3282.62	3282.62
MW-32	2/22/2022	3333.01	50.63	NM	NA	NA	3282.38	3282.38
MW-32	9/27/2022	3333.01	50.59	NM	NA	NA	3282.42	3282.42
MW-32	2/28/2023	3333.01	50.53	NM	NA	NA	3282.48	3282.48
MW-32	10/30/2023	3333.01	50.63	NM	NA	NA	3282.38	3282.38
MW-34	2/4/2009	3335.77	53.51	NM	NA	NA	3282.26	3282.26
MW-34	8/5/2009	3335.77	53.62	NM	NA	NA	3282.15	3282.15
MW-34	2/2/2010	3335.77	53.73	NM	NA	NA	3282.04	3282.04
MW-34	8/2/2010	3335.77	53.77	NM	NA	NA	3282.00	3282.00
MW-34	4/4/2011	3335.77	53.60	NM	NA	NA	3282.17	3282.17
MW-34	8/8/2011	3335.77	53.64	NM	NA	NA	3282.13	3282.13
MW-34	2/6/2012	3335.77	53.70	NM	NA	NA	3282.07	3282.07
MW-34	8/6/2012	3335.77	53.69	NM	NA	NA	3282.08	3282.08
MW-34	2/5/2013	3335.77	53.60	NM	NA	NA	3282.17	3282.17
MW-34	8/5/2013	3335.77	53.61	NM	NA	NA	3282.16	3282.16
MW-34	2/3/2014	3335.77	53.55	NM	NA	NA	3282.22	3282.22
MW-34	8/5/2014	3335.77	53.62	NM	NA	NA	3282.15	3282.15
MW-34	2/2/2015	3335.77	53.03	NM	NA	NA	3282.74	3282.74
MW-34	8/3/2015	3335.77	53.02	NM	NA	NA	3282.75	3282.75
MW-34	3/29/2016	3335.77	52.85	NM	NA	NA	3282.92	3282.92
MW-34	9/7/2016	3335.77	52.91	NM	NA	NA	3282.86	3282.86
MW-34	4/3/2017	3335.77	52.75	NM	NA	NA	3283.02	3283.02
MW-34	9/11/2017	3335.77	52.77	NM	NA	NA	3283.00	3283.00
MW-34	3/12/2018	3335.77	52.69	NM	NA	NA	3283.08	3283.08
MW-34	9/24/2018	3335.77	52.83	NM	NA	NA	3282.94	3282.94
MW-34	4/1/2019	3335.77	52.71	NM	NA	NA	3283.06	3283.06
MW-34	10/1/2019	3335.77	52.85	NM	NA	NA	3282.92	3282.92
MW-34	3/16/2020	3335.77	52.80	NM	NA	NA	3282.97	3282.97
MW-34	9/24/2020	3335.77	52.77	NM	NA	NA	3283.00	3283.00
MW-34	3/16/2021	3335.77	52.81	NM	NA	NA	3282.96	3282.96
MW-34	9/27/2021	3335.77	52.66	NM	NA	NA	3283.11	3283.11
MW-34	2/22/2022	3335.77	53.27	NM	NA	NA	3282.50	3282.50
MW-34	9/27/2022	3335.77	52.83	NM	NA	NA	3282.94	3282.94
MW-34	2/28/2023	3335.77	52.76	NM	NA	NA	3283.01	3283.01
MW-34	10/30/2023	3335.77	52.82	NM	NA	NA	3282.95	3282.95
MW-35	4/12/2017	NM	56.52	NM	NA	NA	NM	NM
MW-35	9/11/2017	NM	56.60	NM	NA	NA	NM	NM
MW-35	3/13/2018	NM	56.54	NM	NA	NA	NM	NM
MW-35	9/24/2018	NM	56.63	NM	NA	NA	NM	NM
MW-35	4/1/2019	NM	56.46	NM	NA	NA	NM	NM
MW-35	10/1/2019	NM	56.52	NM	NA	NA	NM	NM
MW-35	3/16/2020	NM	56.50	NM	NA	NA	NM	NM
MW-35	9/22/2020	NM	56.43	NM	NA	NA	NM	NM
MW-35	3/17/2021	NM	56.44	NM	NA	NA	NM	NM
MW-35	9/27/2021	NM	56.42	NM	NA	NA	NM	NM
MW-35	2/22/2022	NM	66.35	NM	NA	NA	NM	NM
MW-35	9/27/2022	NM	56.04	NM	NA	NA	NM	NM
MW-35	2/28/2023	NM	56.42	NM	NA	NA	NM	NM
MW-35	10/30/2023	NM	56.32	NM	NA	NA	NM	NM
MW-36	4/12/2017	NM	65.68	NM	NA	NA	NM	NM
MW-36	9/11/2017	NM	60.37	NM	NA	NA	NM	NM
MW-36	3/13/2018	NM	60.36	NM	NA	NA	NM	NM
MW-36	9/24/2018	NM	60.39	NM	NA	NA	NM	NM
MW-36	4/1/2019	NM	60.25	NM	NA	NA	NM	NM
MW-36	10/1/2019	NM	60.28	NM	NA	NA	NM	NM
MW-36	3/16/2020	NM	50.32	NM	NA	NA	NM	NM

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Appendix C
Historical Groundwater Elevations
2021 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MW-36	3/16/2021	NM	60.20	NM	NA	NA	NM	NM
MW-36	9/20/2021	NM	60.20	NM	NA	NA	NM	NM
MW-36	2/28/2023	NM	60.21	NM	NA	NA	NM	NM
MW-37	3/13/2018	NM	55.88	NM	NA	NA	NM	NM
MW-37	9/24/2018	NM	55.94	NM	NA	NA	NM	NM
MW-37	4/1/2019	NM	55.80	NM	NA	NA	NM	NM
MW-37	10/1/2019	NM	55.87	NM	NA	NA	NM	NM
MW-37	3/16/2020	NM	55.87	NM	NA	NA	NM	NM
MW-37	3/16/2021	NM	55.81	NM	NA	NA	NM	NM
MW-37	9/20/2021	NM	55.83	NM	NA	NA	NM	NM
MW-37	2/28/2023	NM	55.83	NM	NA	NA	NM	NM
MW-38	3/13/2018	NM	50.01	NM	NA	NA	NM	NM
MW-38	9/24/2018	NM	50.24	NM	NA	NA	NM	NM
MW-38	4/1/2019	NM	50.11	NM	NA	NA	NM	NM
MW-38	10/1/2019	NM	50.21	NM	NA	NA	NM	NM
MW-38	3/16/2020	NM	50.22	NM	NA	NA	NM	NM
MW-38	9/22/2020	NM	50.24	NM	NA	NA	NM	NM
MW-38	3/16/2021	NM	50.23	NM	NA	NA	NM	NM
MW-38	9/27/2021	NM	50.18	NM	NA	NA	NM	NM
MW-38	2/22/2022	NM	50.14	NM	NA	NA	NM	NM
MW-38	9/27/2022	NM	50.32	NM	NA	NA	NM	NM
MW-38	2/28/2023	NM	50.28	NM	NA	NA	NM	NM
MW-38	10/30/2023	NM	54.62	NM	NA	NA	NM	NM
MWD-1	2/11/2009	3335.26	53.37	NM	NA	NA	3281.89	3281.89
MWD-1	8/4/2009	3335.26	53.65	NM	NA	NA	3281.61	3281.61
MWD-1	2/2/2010	3335.26	53.80	NM	NA	NA	3281.46	3281.46
MWD-1	8/2/2010	3335.26	53.84	NM	NA	NA	3281.42	3281.42
MWD-1	4/11/2011	3335.26	52.98	NM	NA	NA	3282.28	3282.28
MWD-1	8/8/2011	3335.26	52.88	NM	NA	NA	3282.38	3282.38
MWD-1	2/6/2012	3335.26	52.73	NM	NA	NA	3282.53	3282.53
MWD-1	8/7/2012	3335.26	52.61	NM	NA	NA	3282.65	3282.65
MWD-1	8/5/2013	3335.26	52.62	NM	NA	NA	3282.64	3282.64
MWD-1	2/3/2014	3335.26	52.44	NM	NA	NA	3282.82	3282.82
MWD-1	8/5/2014	3335.26	53.00	NM	NA	NA	3282.26	3282.26
MWD-1	2/2/2015	3335.26	52.65	NM	NA	NA	3282.61	3282.61
MWD-1	8/3/2015	3335.26	52.60	NM	NA	NA	3282.66	3282.66
MWD-1	3/28/2016	3335.26	52.45	NM	NA	NA	3282.81	3282.81
MWD-1	9/9/2016	3335.26	52.40	NM	NA	NA	3282.86	3282.86
MWD-1	4/3/2017	3335.26	52.41	NM	NA	NA	3282.85	3282.85
MWD-1	3/12/2018	3335.26	52.10	NM	NA	NA	3283.16	3283.16
MWD-1	2/5/2013	3335.26	52.55	NM	NA	NA	3282.71	3282.71
MWD-1	9/12/2017	3335.26	52.37	NM	NA	NA	3282.89	3282.89
MWD-1	9/24/2018	3335.26	52.11	NM	NA	NA	3283.15	3283.15
MWD-1	4/1/2019	3335.26	51.93	NM	NA	NA	3283.33	3283.33
MWD-1	10/1/2019	3335.26	52.17	NM	NA	NA	3283.09	3283.09
MWD-1	3/16/2020	3335.26	51.76	NM	NA	NA	3283.50	3283.50
MWD-1	3/18/2021	3335.26	51.48	NM	NA	NA	3283.78	3283.78
MWD-1	2/22/2022	3335.26	51.46	NM	NA	NA	3283.80	3283.80
MWD-1	2/28/2023	3335.26	51.37	NM	NA	NA	3283.89	3283.89
MWD-2	2/10/2009	3336.32	54.75	NM	NA	NA	3281.57	3281.57
MWD-2	8/4/2009	3336.32	54.22	NM	NA	NA	3282.10	3282.10
MWD-2	2/2/2010	3336.32	54.68	NM	NA	NA	3281.64	3281.64
MWD-2	8/2/2010	3336.32	54.43	NM	NA	NA	3281.89	3281.89
MWD-2	4/11/2011	3336.32	53.78	NM	NA	NA	3282.54	3282.54
MWD-2	8/8/2011	3336.32	53.69	NM	NA	NA	3282.63	3282.63
MWD-2	2/6/2012	3336.32	53.26	NM	NA	NA	3283.06	3283.06
MWD-2	8/7/2012	3336.32	53.48	NM	NA	NA	3282.84	3282.84
MWD-2	2/5/2013	3336.32	53.40	NM	NA	NA	3282.92	3282.92
MWD-2	8/5/2013	3336.32	53.52	NM	NA	NA	3282.80	3282.80
MWD-2	2/3/2014	3336.32	53.38	NM	NA	NA	3282.94	3282.94
MWD-2	8/5/2014	3336.32	53.65	NM	NA	NA	3282.67	3282.67
MWD-2	2/2/2015	3336.32	53.32	NM	NA	NA	3283.00	3283.00
MWD-2	8/3/2015	3336.32	53.20	NM	NA	NA	3283.12	3283.12
MWD-2	3/29/2016	3336.32	53.08	NM	NA	NA	3283.24	3283.24
MWD-2	9/9/2016	3336.32	53.08	NM	NA	NA	3283.24	3283.24
MWD-2	4/3/2017	3336.32	52.95	NM	NA	NA	3283.37	3283.37
MWD-2	3/12/2018	3336.32	52.76	NM	NA	NA	3283.56	3283.56
MWD-2	9/24/2018	3336.32	NM	NM	NA	NA	NM	NM
MWD-2	4/1/2019	3336.32	52.62	NM	NA	NA	3283.70	3283.70
MWD-2	3/16/2020	3336.32	52.65	NM	NA	NA	3283.67	3283.67
MWD-2	3/18/2021	3336.32	52.36	NM	NA	NA	3283.96	3283.96
MWD-2	2/22/2022	3336.32	52.38	NM	NA	NA	3283.94	3283.94
MWD-2	2/28/2023	3336.32	52.32	NM	NA	NA	3284.00	3284.00
MWD-3	2/11/2009	3335.06	NM	NM	NA	NA	NM	NM
MWD-3	8/18/2009	3335.06	NM	NM	NA	NA	NM	NM
MWD-3	2/2/2010	3335.06	NM	NM	NA	NA	NM	NM

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Appendix C
Historical Groundwater Elevations
2021 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

ARCADIS

Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MWD-3	8/2/2010	3335.06	NM	NM	NA	NA	NM	NM
MWD-3	4/11/2011	3335.06	NM	NM	NA	NA	NM	NM
MWD-3	8/8/2011	3335.06	NM	NM	NA	NA	NM	NM
MWD-3	2/6/2012	3335.06	NM	NM	NA	NA	NM	NM
MWD-3	8/7/2012	3335.06	NM	NM	NA	NA	NM	NM
MWD-3	2/5/2013	3335.06	NM	NM	NA	NA	NM	NM
MWD-3	8/5/2013	3335.06	NM	NM	NA	NA	NM	NM
MWD-3	2/3/2014	3335.06	NM	NM	NA	NA	NM	NM
MWD-3	8/5/2014	3335.06	NM	NM	NA	NA	NM	NM
MWD-3	3/13/2018	3335.06	NM	NM	NA	NA	NM	NM
MWD-3*	3/28/2016	3335.06	NM	NM	NA	NA	NM	NM
MWD-3*	9/9/2016	3335.06	52.70	NM	NA	NA	3282.36	3282.36
MWD-3*	4/3/2017	3335.06	52.97	NM	NA	NA	3282.09	3282.09
MWD-3*	9/12/2017	3335.06	52.62	NM	NA	NA	3282.44	3282.44
MWD-3*	9/24/2018	3335.06	NM	NM	NA	NA	NM	NM
MWD-3*	4/1/2019	3335.06	NM	NM	NA	NA	NM	NM
MWD-3*	10/1/2019	3335.06	48.71	NM	NA	NA	3286.35	3286.35
MWD-3	9/22/2020	3335.06	52.19	NM	NA	NA	3282.87	3282.87
MWD-3	3/16/2020	3335.06	52.69	NM	NA	NA	3282.37	3282.37
MWD-3	3/18/2021	3335.06	49.63	NM	NA	NA	3285.43	3285.43
MWD-3	9/20/2021	3335.06	51.78	NM	NA	NA	3283.28	3283.28
MWD-3	2/22/2022	3335.06	51.84	NM	NA	NA	3283.22	3283.22
MWD-3	9/27/2022	3335.06	51.88	NM	NA	NA	3283.18	3283.18
MWD-3	2/28/2023	3335.06	51.84	NM	NA	NA	3283.22	3283.22
MWD-3	11/1/2023	3335.06	51.93	NM	NA	NA	3283.13	3283.13
MWD-4	2/5/2009	3330.86	50.32	NM	NA	NA	3280.54	3280.54
MWD-4	8/4/2009	3330.86	50.52	NM	NA	NA	3280.34	3280.34
MWD-4	2/2/2010	3330.86	50.74	NM	NA	NA	3280.12	3280.12
MWD-4	8/2/2010	3330.86	51.45	NM	NA	NA	3279.41	3279.41
MWD-4	4/11/2011	3330.86	49.89	NM	NA	NA	3280.97	3280.97
MWD-4	8/8/2011	3330.86	49.79	NM	NA	NA	3281.07	3281.07
MWD-4	2/6/2012	3330.86	49.67	NM	NA	NA	3281.19	3281.19
MWD-4	8/7/2012	3330.86	49.58	NM	NA	NA	3281.28	3281.28
MWD-4	2/5/2013	3330.86	49.55	NM	NA	NA	3281.31	3281.31
MWD-4	8/5/2013	3330.86	49.63	NM	NA	NA	3281.23	3281.23
MWD-4	2/3/2014	3330.86	49.46	NM	NA	NA	3281.40	3281.40
MWD-4	8/5/2014	3330.86	49.76	NM	NA	NA	3281.10	3281.10
MWD-4	2/2/2015	3330.86	48.25	NM	NA	NA	3282.61	3282.61
MWD-4	8/3/2015	3330.86	48.35	NM	NA	NA	3282.51	3282.51
MWD-4	3/28/2016	3330.86	48.27	NM	NA	NA	3282.59	3282.59
MWD-4	9/7/2016	3330.86	48.25	NM	NA	NA	3282.61	3282.61
MWD-4	4/3/2017	3330.86	47.78	NM	NA	NA	3283.08	3283.08
MWD-4	9/11/2017	3330.86	48.29	NM	NA	NA	3282.57	3282.57
MWD-4	3/12/2018	3330.86	48.35	NM	NA	NA	3282.51	3282.51
MWD-4	9/24/2018	3330.86	48.64	NM	NA	NA	3282.22	3282.22
MWD-4	4/1/2019	3330.86	48.45	NM	NA	NA	3282.41	3282.41
MWD-4	10/1/2019	3330.86	48.71	NM	NA	NA	3282.15	3282.15
MWD-4	3/16/2020	3330.86	48.64	NM	NA	NA	3282.22	3282.22
MWD-4	3/17/2021	3330.86	48.36	NM	NA	NA	3282.50	3282.50
MWD-4	9/20/2021	3330.86	48.26	NM	NA	NA	3282.60	3282.60
MWD-4	2/22/2022	3330.86	48.53	NM	NA	NA	3282.33	3282.33
MWD-4	2/28/2023	3330.86	36.46	NM	NA	NA	3294.40	3294.40
MWD-5	2/12/2009	3334.01	52.11	NM	NA	NA	3281.90	3281.90
MWD-5	8/5/2009	3334.01	52.23	NM	NA	NA	3281.78	3281.78
MWD-5	2/2/2010	3334.01	53.44	NM	NA	NA	3280.57	3280.57
MWD-5	8/2/2010	3334.01	52.50	NM	NA	NA	3281.51	3281.51
MWD-5	4/11/2011	3334.01	52.30	NM	NA	NA	3281.71	3281.71
MWD-5	8/8/2011	3334.01	52.38	NM	NA	NA	3281.63	3281.63
MWD-5	2/6/2012	3334.01	52.35	NM	NA	NA	3281.66	3281.66
MWD-5	8/6/2012	3334.01	52.33	NM	NA	NA	3281.68	3281.68
MWD-5	2/5/2013	3334.01	52.30	NM	NA	NA	3281.71	3281.71
MWD-5	2/3/2014	3334.01	52.20	NM	NA	NA	3281.81	3281.81
MWD-5	8/5/2014	3334.01	52.32	NM	NA	NA	3281.69	3281.69
MWD-5	2/2/2015	3334.01	51.50	NM	NA	NA	3282.51	3282.51
MWD-5	8/3/2015	3334.01	51.15	NM	NA	NA	3282.86	3282.86
MWD-5	3/29/2016	3334.01	51.35	NM	NA	NA	3282.66	3282.66
MWD-5	9/7/2016	3334.01	51.45	NM	NA	NA	3282.56	3282.56
MWD-5	4/3/2017	3334.01	51.27	NM	NA	NA	3282.74	3282.74
MWD-5	3/12/2018	3334.01	51.20	NM	NA	NA	3282.81	3282.81
MWD-5	9/24/2018	3334.01	NM	NM	NA	NA	NM	NM
MWD-5	4/1/2019	3334.01	51.29	NM	NA	NA	3282.72	3282.72
MWD-5	3/16/2020	3334.01	51.41	NM	NA	NA	3282.60	3282.60
MWD-5	3/16/2021	3334.01	51.44	NM	NA	NA	3282.57	3282.57
MWD-5	9/27/2021	3334.01	51.28	NM	NA	NA	3282.73	3282.73
MWD-5	2/22/2022	3334.01	51.62	NM	NA	NA	3282.39	3282.39
MWD-5	2/28/2023	3334.01	51.40	NM	NA	NA	3282.61	3282.61

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Appendix C
Historical Groundwater Elevations
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Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MWD-6	2/12/2009	3335.08	53.44	NM	NA	NA	3281.64	3281.64
MWD-6	8/4/2009	3335.08	53.56	NM	NA	NA	3281.52	3281.52
MWD-6	2/2/2010	3335.08	53.67	NM	NA	NA	3281.41	3281.41
MWD-6	8/2/2010	3335.08	53.70	NM	NA	NA	3281.38	3281.38
MWD-6	4/11/2011	3335.08	53.61	NM	NA	NA	3281.47	3281.47
MWD-6	8/8/2011	3335.08	53.63	NM	NA	NA	3281.45	3281.45
MWD-6	2/6/2012	3335.08	53.62	NM	NA	NA	3281.46	3281.46
MWD-6	8/6/2012	3335.08	53.65	NM	NA	NA	3281.43	3281.43
MWD-6	2/5/2013	3335.08	53.42	NM	NA	NA	3281.66	3281.66
MWD-6	2/3/2014	3335.08	53.39	NM	NA	NA	3281.69	3281.69
MWD-6	8/5/2014	3335.08	53.53	NM	NA	NA	3281.55	3281.55
MWD-6	2/2/2015	3335.08	52.82	NM	NA	NA	3282.26	3282.26
MWD-6	8/3/2015	3335.08	52.98	NM	NA	NA	3282.10	3282.10
MWD-6	3/29/2016	3335.08	52.85	NM	NA	NA	3282.23	3282.23
MWD-6	9/7/2016	3335.08	52.88	NM	NA	NA	3282.20	3282.20
MWD-6	4/3/2017	3335.08	52.74	NM	NA	NA	3282.34	3282.34
MWD-6	9/11/2017	3335.08	52.75	NM	NA	NA	3282.33	3282.33
MWD-6	3/12/2018	3335.08	52.67	NM	NA	NA	3282.41	3282.41
MWD-6	9/24/2018	3335.08	52.74	NM	NA	NA	3282.34	3282.34
MWD-6	4/1/2019	3335.08	52.68	NM	NA	NA	3282.40	3282.40
MWD-6	10/1/2019	3335.08	52.81	NM	NA	NA	3282.27	3282.27
MWD-6	3/16/2020	3335.08	52.77	NM	NA	NA	3282.31	3282.31
MWD-6	3/16/2021	3335.08	52.76	NM	NA	NA	3282.32	3282.32
MWD-6	9/20/2021	3335.08	52.67	NM	NA	NA	3282.41	3282.41
MWD-6	2/22/2022	3335.08	53.00	NM	NA	NA	3282.08	3282.08
MWD-6	2/28/2023	3335.08	52.73	NM	NA	NA	3282.35	3282.35
MWD-7	2/11/2009	3332.82	51.54	NM	NA	NA	3281.28	3281.28
MWD-7	8/5/2009	3332.82	51.68	NM	NA	NA	3281.14	3281.14
MWD-7	2/2/2010	3332.82	51.78	NM	NA	NA	3281.04	3281.04
MWD-7	8/2/2010	3332.82	51.83	NM	NA	NA	3280.99	3280.99
MWD-7	4/11/2011	3332.82	51.22	NM	NA	NA	3281.60	3281.60
MWD-7	8/8/2011	3332.82	52.13	NM	NA	NA	3280.69	3280.69
MWD-7	2/6/2012	3332.82	51.03	NM	NA	NA	3281.79	3281.79
MWD-7	8/7/2012	3332.82	50.92	NM	NA	NA	3281.90	3281.90
MWD-7	2/5/2013	3332.82	50.85	NM	NA	NA	3281.97	3281.97
MWD-7	8/5/2013	3332.82	50.95	NM	NA	NA	3281.87	3281.87
MWD-7	2/3/2014	3332.82	50.25	NM	NA	NA	3282.57	3282.57
MWD-7	8/5/2014	3332.82	51.08	NM	NA	NA	3281.74	3281.74
MWD-7	2/2/2015	3332.82	50.75	NM	NA	NA	3282.07	3282.07
MWD-7	8/3/2015	3332.82	50.67	NM	NA	NA	3282.15	3282.15
MWD-7	3/28/2016	3332.82	50.55	NM	NA	NA	3282.27	3282.27
MWD-7	9/9/2016	3332.82	50.52	NM	NA	NA	3282.30	3282.30
MWD-7	4/3/2017	3332.82	50.43	NM	NA	NA	3282.39	3282.39
MWD-7	9/12/2017	3332.82	50.35	NM	NA	NA	3282.47	3282.47
MWD-7	3/12/2018	3332.82	50.19	NM	NA	NA	3282.63	3282.63
MWD-7	9/24/2018	3332.82	50.19	NM	NA	NA	3282.63	3282.63
MWD-7	4/1/2019	3332.82	50.06	NM	NA	NA	3282.76	3282.76
MWD-7	10/1/2019	3332.82	50.26	NM	NA	NA	3282.56	3282.56
MWD-7	3/17/2020	3332.82	49.98	NM	NA	NA	3282.84	3282.84
MWD-7	3/17/2021	3332.82	49.77	NM	NA	NA	3283.05	3283.05
MWD-7	2/22/2022	3332.82	49.73	NM	NA	NA	3283.09	3283.09
MWD-7	2/28/2023	3332.82	49.65	NM	NA	NA	3283.17	3283.17
MWD-8	2/10/2009	3335.97	53.58	NM	NA	NA	3282.39	3282.39
MWD-8	8/5/2009	3335.97	53.50	NM	NA	NA	3282.47	3282.47
MWD-8	2/2/2010	3335.97	53.67	NM	NA	NA	3282.30	3282.30
MWD-8	8/2/2010	3335.97	53.58	NM	NA	NA	3282.39	3282.39
MWD-8	4/11/2011	3335.97	53.24	NM	NA	NA	3282.73	3282.73
MWD-8	8/8/2011	3335.97	53.27	NM	NA	NA	3282.70	3282.70
MWD-8	2/6/2012	3335.97	53.10	NM	NA	NA	3282.87	3282.87
MWD-8	8/7/2012	3335.97	53.30	NM	NA	NA	3282.67	3282.67
MWD-8	2/5/2013	3335.97	52.95	NM	NA	NA	3283.02	3283.02
MWD-8	8/5/2013	3335.97	53.08	NM	NA	NA	3282.89	3282.89
MWD-8	2/3/2014	3335.97	52.91	NM	NA	NA	3283.06	3283.06
MWD-8	8/5/2014	3335.97	53.04	NM	NA	NA	3282.93	3282.93
MWD-8	2/2/2015	3335.97	52.79	NM	NA	NA	3283.18	3283.18
MWD-8	8/3/2015	3335.97	52.70	NM	NA	NA	3283.27	3283.27
MWD-8	3/29/2016	3335.97	52.57	NM	NA	NA	3283.40	3283.40
MWD-8	9/12/2016	3335.97	52.57	NM	NA	NA	3283.40	3283.40
MWD-8	4/3/2017	3335.97	52.43	NM	NA	NA	3283.54	3283.54
MWD-8	9/12/2017	3335.97	52.42	NM	NA	NA	3283.55	3283.55
MWD-8	3/12/2018	3335.97	52.28	NM	NA	NA	3283.69	3283.69
MWD-8	9/24/2018	3335.97	52.30	NM	NA	NA	3283.67	3283.67
MWD-8	4/1/2019	3335.97	52.87	NM	NA	NA	3283.10	3283.10
MWD-8	10/1/2019	3335.97	52.23	NM	NA	NA	3283.74	3283.74
MWD-8	3/16/2020	3335.97	52.18	NM	NA	NA	3283.79	3283.79
MWD-8	3/18/2021	3335.97	51.99	NM	NA	NA	3283.98	3283.98

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Appendix C
Historical Groundwater Elevations
2021 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MWD-8	9/20/2021	3335.97	51.99	NM	NA	NA	3283.98	3283.98
MWD-8	2/22/2022	3335.97	52.03	NM	NA	NA	3283.94	3283.94
MWD-8	2/28/2023	3335.97	51.91	NM	NA	NA	3284.06	3284.06
MWD-9	2/11/2009	3333.45	NM	NM	NA	NA	NM	NM
MWD-9	8/17/2009	3333.45	NM	NM	NA	NA	NM	NM
MWD-9	2/2/2010	3333.45	NM	NM	NA	NA	NM	NM
MWD-9	8/2/2010	3333.45	NM	NM	NA	NA	NM	NM
MWD-9	4/11/2011	3333.45	NM	NM	NA	NA	NM	NM
MWD-9	8/8/2011	3333.45	NM	NM	NA	NA	NM	NM
MWD-9	2/6/2012	3333.45	NM	NM	NA	NA	NM	NM
MWD-9	8/7/2012	3333.45	NM	NM	NA	NA	NM	NM
MWD-9	2/5/2013	3333.45	NM	NM	NA	NA	NM	NM
MWD-9	8/5/2013	3333.45	NM	NM	NA	NA	NM	NM
MWD-9	2/3/2014	3333.45	NM	NM	NA	NA	NM	NM
MWD-9	8/5/2014	3333.45	NM	NM	NA	NA	NM	NM
MWD-9*	3/28/2016	3333.45	74.50	NM	NA	NA	3258.95	3258.95
MWD-9*	9/9/2016	3333.45	70.40	NM	NA	NA	3263.05	3263.05
MWD-9*	4/3/2017	3333.45	72.19	NM	NA	NA	3261.26	3261.26
MWD-9*	9/12/2017	3333.45	70.31	NM	NA	NA	3263.14	3263.14
MWD-9*	3/12/2018	3333.45	NM	NM	NA	NA	NM	NM
MWD-9*	9/24/2018	3333.45	NM	NM	NA	NA	NM	NM
MWD-9*	4/4/2019	3333.45	NM	NM	NA	NA	NM	NM
MWD-9*	10/1/2019	3333.45	NM	NM	NA	NA	NM	NM
MWD-9	9/22/2020	3333.45	50.62	NM	NA	NA	3282.83	3282.83
MWD-9	3/16/2020	3333.45	50.92	NM	NA	NA	3282.53	3282.53
MWD-9	3/15/2021	3333.45	50.51	NM	NA	NA	3282.94	3282.94
MWD-9	9/20/2021	3333.45	50.46	NM	NA	NA	3282.99	3282.99
MWD-9	2/22/2022	3333.45	50.47	NM	NA	NA	3282.98	3282.98
MWD-9	9/27/2022	3333.45	50.50	NM	NA	NA	3282.95	3282.95
MWD-9	2/28/2023	3333.45	50.42	NM	NA	NA	3283.03	3283.03
MWD-10	2/12/2009	3334.92	53.19	NM	NA	0.74	3281.73	3281.73
MWD-10	8/4/2009	3334.92	53.21	NM	NA	0.74	3281.71	3281.71
MWD-10	2/2/2010	3334.92	53.49	NM	NA	0.74	3281.43	3281.43
MWD-10	8/2/2010	3334.92	53.49	53.47	0.02	0.74	3281.43	3281.44
MWD-10	4/11/2011	3334.92	52.93	52.92	0.01	0.74	3281.99	3282.00
MWD-10	8/8/2011	3334.92	52.89	52.88	0.01	0.74	3282.03	3282.04
MWD-10	2/6/2012	3334.92	NM	NM	NA	0.74	NM	NM
MWD-10	8/7/2012	3334.92	NM	NM	NA	0.74	NM	NM
MWD-10	2/5/2013	3334.92	NM	NM	NA	0.74	NM	NM
MWD-10	2/3/2014	3334.92	NM	NM	NA	0.74	NM	NM
MWD-10	8/5/2014	3334.92	NM	NM	NA	0.74	NM	NM
MWD-10	3/28/2016	3334.92	NM	NM	NA	0.74	NM	NM
MWD-11	2/10/2009	3338.24	55.41	NM	NA	NA	3282.83	3282.83
MWD-11	8/5/2009	3338.24	55.43	NM	NA	NA	3282.81	3282.81
MWD-11	2/2/2010	3338.24	55.50	NM	NA	NA	3282.74	3282.74
MWD-11	8/2/2010	3338.24	55.52	NM	NA	NA	3282.72	3282.72
MWD-11	4/11/2011	3338.24	55.27	NM	NA	NA	3282.97	3282.97
MWD-11	8/8/2011	3338.24	55.23	NM	NA	NA	3283.01	3283.01
MWD-11	2/6/2012	3338.24	55.15	NM	NA	NA	3283.09	3283.09
MWD-11	8/7/2012	3338.24	55.17	NM	NA	NA	3283.07	3283.07
MWD-11	2/5/2013	3338.24	55.20	NM	NA	NA	3283.04	3283.04
MWD-11	8/5/2013	3338.24	55.21	NM	NA	NA	3283.03	3283.03
MWD-11	2/3/2014	3338.24	55.08	NM	NA	NA	3283.16	3283.16
MWD-11	8/5/2014	3338.24	55.13	NM	NA	NA	3283.11	3283.11
MWD-11	2/2/2015	3338.24	54.82	NM	NA	NA	3283.42	3283.42
MWD-11	8/3/2015	3338.24	54.76	NM	NA	NA	3283.48	3283.48
MWD-11	3/29/2016	3338.24	54.61	NM	NA	NA	3283.63	3283.63
MWD-11	9/12/2016	3338.24	54.54	NM	NA	NA	3283.70	3283.70
MWD-11	4/3/2017	3338.24	54.49	NM	NA	NA	3283.75	3283.75
MWD-11	9/12/2017	3338.24	54.43	NM	NA	NA	3283.81	3283.81
MWD-11	3/13/2018	3338.24	54.40	NM	NA	NA	3283.84	3283.84
MWD-11	9/24/2018	3338.24	54.41	NM	NA	NA	3283.83	3283.83
MWD-11	4/1/2019	3338.24	54.31	NM	NA	NA	3283.93	3283.93
MWD-11	10/1/2019	3338.24	54.37	NM	NA	NA	3283.87	3283.87
MWD-11	3/16/2020	3338.24	54.31	NM	NA	NA	3283.93	3283.93
MWD-11	3/17/2021	3338.24	54.27	NM	NA	NA	3283.97	3283.97
MWD-11	9/20/2021	3338.24	54.22	NM	NA	NA	3284.02	3284.02
MWD-11	2/22/2022	3338.24	54.40	NM	NA	NA	3283.84	3283.84
MWD-11	2/28/2023	3338.24	54.12	NM	NA	NA	3284.12	3284.12
MWD-12	2/17/2009	3334.08	53.04	NM	NA	NA	3281.04	3281.04
MWD-12	8/5/2009	3334.08	53.25	NM	NA	NA	3280.83	3280.83
MWD-12	2/2/2010	3334.08	53.43	NM	NA	NA	3280.65	3280.65
MWD-12	8/2/2010	3334.08	53.70	NM	NA	NA	3280.38	3280.38
MWD-12	4/11/2011	3334.08	53.03	NM	NA	NA	3281.05	3281.05
MWD-12	8/8/2011	3334.08	53.01	NM	NA	NA	3281.07	3281.07
MWD-12	2/6/2012	3334.08	52.92	NM	NA	NA	3281.16	3281.16

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Appendix C
Historical Groundwater Elevations
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Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MWD-12	8/7/2012	3334.08	52.90	NM	NA	NA	3281.18	3281.18
MWD-12	2/5/2013	3334.08	52.90	NM	NA	NA	3281.18	3281.18
MWD-12	2/3/2014	3334.08	52.79	NM	NA	NA	3281.29	3281.29
MWD-12	8/5/2014	3334.08	52.95	NM	NA	NA	3281.13	3281.13
MWD-12	2/2/2015	3334.08	51.89	NM	NA	NA	3282.19	3282.19
MWD-12	8/3/2015	3334.08	51.95	NM	NA	NA	3282.13	3282.13
MWD-12	3/28/2016	3334.08	51.73	NM	NA	NA	3282.35	3282.35
MWD-12	9/7/2016	3334.08	51.85	NM	NA	NA	3282.23	3282.23
MWD-12	4/3/2017	3334.08	51.61	NM	NA	NA	3282.47	3282.47
MWD-12	9/12/2017	3334.08	51.63	NM	NA	NA	3282.45	3282.45
MWD-12	3/12/2018	3334.08	51.61	NM	NA	NA	3282.47	3282.47
MWD-12	9/24/2018	3334.08	51.91	NM	NA	NA	3282.17	3282.17
MWD-12	4/1/2019	3334.08	51.72	NM	NA	NA	3282.36	3282.36
MWD-12	10/1/2019	3334.08	51.96	NM	NA	NA	3282.12	3282.12
MWD-12	9/24/2020	3334.08	51.78	NM	NA	NA	3282.30	3282.30
MWD-12	3/16/2020	3334.08	51.89	NM	NA	NA	3282.19	3282.19
MWD-12	3/17/2021	3334.08	51.80	NM	NA	NA	3282.28	3282.28
MWD-12	9/20/2021	3334.08	51.64	NM	NA	NA	3282.44	3282.44
MWD-12	2/22/2022	3334.08	51.94	NM	NA	NA	3282.14	3282.14
MWD-12	9/27/2022	3334.08	51.82	NM	NA	NA	3282.26	3282.26
MWD-12	2/28/2023	3334.08	51.78	NM	NA	NA	3282.30	3282.30
MWD-12	10/30/2023	3334.08	51.87	NM	NA	NA	3282.21	3282.21
MWD-13	2/5/2009	3332.11	52.37	NM	NA	NA	3279.74	3279.74
MWD-13	8/4/2009	3332.11	52.33	NM	NA	NA	3279.78	3279.78
MWD-13	2/2/2010	3332.11	52.87	NM	NA	NA	3279.24	3279.24
MWD-13	8/2/2010	3332.11	53.11	NM	NA	NA	3279.00	3279.00
MWD-13	4/11/2011	3332.11	51.31	NM	NA	NA	3280.80	3280.80
MWD-13	8/8/2011	3332.11	51.13	NM	NA	NA	3280.98	3280.98
MWD-13	2/6/2012	3332.11	50.95	NM	NA	NA	3281.16	3281.16
MWD-13	8/6/2012	3332.11	50.85	NM	NA	NA	3281.26	3281.26
MWD-13	2/5/2013	3332.11	50.80	NM	NA	NA	3281.31	3281.31
MWD-13	8/5/2013	3332.11	50.90	NM	NA	NA	3281.21	3281.21
MWD-13	2/3/2014	3332.11	50.69	NM	NA	NA	3281.42	3281.42
MWD-13	8/5/2014	3332.11	51.40	NM	NA	NA	3280.71	3280.71
MWD-13	2/2/2015	3332.11	50.62	NM	NA	NA	3281.49	3281.49
MWD-13	8/3/2015	3332.11	50.60	NM	NA	NA	3281.51	3281.51
MWD-13	3/28/2016	3332.11	50.45	NM	NA	NA	3281.66	3281.66
MWD-13	9/7/2016	3332.11	50.30	NM	NA	NA	3281.81	3281.81
MWD-13	4/3/2017	3332.11	50.40	NM	NA	NA	3281.71	3281.71
MWD-13	9/12/2017	3332.11	50.27	NM	NA	NA	3281.84	3281.84
MWD-13	3/12/2018	3332.11	50.20	NM	NA	NA	3281.91	3281.91
MWD-13	9/24/2018	3332.11	50.46	NM	NA	NA	3281.65	3281.65
MWD-13	4/1/2019	3332.11	50.02	NM	NA	NA	3282.09	3282.09
MWD-13	10/1/2019	3332.11	50.41	NM	NA	NA	3281.70	3281.70
MWD-13	9/22/2020	3332.11	49.70	NM	NA	NA	3282.41	3282.41
MWD-13	3/16/2020	3332.11	50.08	NM	NA	NA	3282.03	3282.03
MWD-13	3/17/2021	3332.11	49.63	NM	NA	NA	3282.48	3282.48
MWD-13	9/22/2021	3332.11	49.55	NM	NA	NA	3282.56	3282.56
MWD-13	2/22/2022	3332.11	49.79	NM	NA	NA	3282.32	3282.32
MWD-13	9/27/2022	3332.11	49.58	NM	NA	NA	3282.53	3282.53
MWD-13	2/28/2023	3332.11	49.54	NM	NA	NA	3282.57	3282.57
MWD-13	10/30/2023	3332.11	49.65	NM	NA	NA	3282.46	3282.46
MWD-14	2/12/2009	3333.76	52.86	NM	NA	NA	3280.90	3280.90
MWD-14	8/4/2009	3333.76	52.81	NM	NA	NA	3280.95	3280.95
MWD-14	2/2/2010	3333.76	53.23	NM	NA	NA	3280.53	3280.53
MWD-14	8/2/2010	3333.76	53.26	NM	NA	NA	3280.50	3280.50
MWD-14	4/11/2011	3333.76	52.27	NM	NA	NA	3281.49	3281.49
MWD-14	8/8/2011	3333.76	52.21	NM	NA	NA	3281.55	3281.55
MWD-14	2/6/2012	3333.76	52.10	NM	NA	NA	3281.66	3281.66
MWD-14	8/7/2012	3333.76	51.97	NM	NA	NA	3281.79	3281.79
MWD-14	2/5/2013	3333.76	51.96	NM	NA	NA	3281.80	3281.80
MWD-14	2/3/2014	3333.76	51.90	NM	NA	NA	3281.86	3281.86
MWD-14	8/5/2014	3333.76	52.35	NM	NA	NA	3281.41	3281.41
MWD-14	2/2/2015	3333.76	51.55	NM	NA	NA	3282.21	3282.21
MWD-14	8/3/2015	3333.76	51.50	NM	NA	NA	3282.26	3282.26
MWD-14	3/29/2016	3333.76	51.35	NM	NA	NA	3282.41	3282.41
MWD-14	9/7/2016	3333.76	51.15	NM	NA	NA	3282.61	3282.61
MWD-14	4/3/2017	3333.76	51.20	NM	NA	NA	3282.56	3282.56
MWD-14	9/12/2017	3333.76	50.76	NM	NA	NA	3283.00	3283.00
MWD-14	3/13/2018	3333.76	51.08	NM	NA	NA	3282.68	3282.68
MWD-14	9/24/2018	3333.76	48.64	NM	NA	NA	3285.12	3285.12
MWD-14	4/1/2019	3333.76	50.95	NM	NA	NA	3282.81	3282.81
MWD-14	10/1/2019	3333.76	51.36	NM	NA	NA	3282.40	3282.40
MWD-14	9/23/2020	3333.76	50.78	NM	NA	NA	3282.98	3282.98
MWD-14	3/16/2020	3333.76	51.06	NM	NA	NA	3282.70	3282.70
MWD-14	3/19/2021	3333.76	50.78	NM	NA	NA	3282.98	3282.98

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Former Eunice South Gas Plant
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Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
MWD-14	9/20/2021	3333.76	50.55	NM	NA	NA	3283.21	3283.21
MWD-14	2/22/2022	3333.76	51.93	NM	NA	NA	3281.83	3281.83
MWD-14	9/27/2022	3333.76	50.63	NM	NA	NA	3283.13	3283.13
MWD-14	2/28/2023	3333.76	50.73	NM	NA	NA	3283.03	3283.03
MWD-14	10/30/2023	3333.76	50.75	NM	NA	NA	3283.01	3283.01
MWD-15	8/4/2009	3335.35	53.29	NM	NA	NA	3282.06	3282.06
MWD-15	2/2/2010	3335.35	53.70	NM	NA	NA	3281.65	3281.65
MWD-15	8/2/2010	3335.35	53.57	NM	NA	NA	3281.78	3281.78
MWD-15	4/11/2011	3335.35	52.92	NM	NA	NA	3282.43	3282.43
MWD-15	8/8/2011	3335.35	52.46	NM	NA	NA	3282.89	3282.89
MWD-15	2/6/2012	3335.35	54.81	NM	NA	NA	3280.54	3280.54
MWD-15	8/7/2012	3335.35	52.73	NM	NA	NA	3282.62	3282.62
MWD-15	2/5/2013	3335.35	52.66	NM	NA	NA	3282.69	3282.69
MWD-15	8/5/2013	3335.35	53.81	NM	NA	NA	3281.54	3281.54
MWD-15	2/3/2014	3335.35	52.63	NM	NA	NA	3282.72	3282.72
MWD-15	8/5/2014	3335.35	52.86	NM	NA	NA	3282.49	3282.49
MWD-15	2/2/2015	3335.35	52.35	NM	NA	NA	3283.00	3283.00
MWD-15	8/3/2015	3335.35	52.22	NM	NA	NA	3283.13	3283.13
MWD-15	3/29/2016	3335.35	52.13	NM	NA	NA	3283.22	3283.22
MWD-15	9/9/2016	3335.35	52.10	NM	NA	NA	3283.25	3283.25
MWD-15	4/3/2017	3335.35	51.99	NM	NA	NA	3283.36	3283.36
MWD-15	9/12/2017	3335.35	51.92	NM	NA	NA	3283.43	3283.43
MWD-15	3/12/2018	3335.35	51.84	NM	NA	NA	3283.51	3283.51
MWD-15	9/24/2018	3335.35	52.00	NM	NA	NA	3283.35	3283.35
MWD-15	4/1/2019	3335.35	51.77	NM	NA	NA	3283.58	3283.58
MWD-15	10/1/2019	3335.35	51.97	NM	NA	NA	3283.38	3283.38
MWD-15	9/22/2020	3335.35	51.85	NM	NA	NA	3283.50	3283.50
MWD-15	3/16/2020	3335.35	51.83	NM	NA	NA	3283.52	3283.52
MWD-15	3/18/2021	3335.35	51.85	NM	NA	NA	3283.50	3283.50
MWD-15	9/20/2021	3335.35	51.56	NM	NA	NA	3283.79	3283.79
MWD-15	2/22/2022	3335.35	51.63	NM	NA	NA	3283.72	3283.72
MWD-15	9/27/2022	3335.35	51.62	NM	NA	NA	3283.73	3283.73
MWD-15	2/28/2023	3335.35	51.57	NM	NA	NA	3283.78	3283.78
MWD-15	10/30/2023	3335.35	51.61	NM	NA	NA	3283.74	3283.74
MWD-16	2/12/2009	3334.1	52.39	NM	NA	NA	3281.71	3281.71
MWD-16	8/5/2009	3334.1	52.42	NM	NA	NA	3281.68	3281.68
MWD-16	2/2/2010	3334.1	52.73	NM	NA	NA	3281.37	3281.37
MWD-16	8/2/2010	3334.1	52.77	NM	NA	NA	3281.33	3281.33
MWD-16	4/11/2011	3334.1	52.04	NM	NA	NA	3282.06	3282.06
MWD-16	8/8/2011	3334.1	NM	NM	NA	NA	NM	NM
MWD-16	2/6/2012	3334.1	NM	NM	NA	NA	NM	NM
MWD-16	8/7/2012	3334.1	NM	NM	NA	NA	NM	NM
MWD-16	2/5/2013	3334.1	NM	NM	NA	NA	NM	NM
MWD-16	2/3/2014	3334.1	NM	NM	NA	NA	NM	NM
MWD-16	8/5/2014	3334.1	NM	NM	NA	NA	NM	NM
MWD-16	3/29/2016	3334.1	NM	NM	NA	NA	NM	NM
MWD-17	2/12/2009	3334.74	54.28	NM	NA	NA	3280.46	3280.46
MWD-17	8/4/2009	3334.74	54.13	NM	NA	NA	3280.61	3280.61
MWD-17	2/2/2010	3334.74	54.91	NM	NA	NA	3279.83	3279.83
MWD-17	8/2/2010	3334.74	55.03	NM	NA	NA	3279.71	3279.71
MWD-17	4/11/2011	3334.74	53.20	NM	NA	NA	3281.54	3281.54
MWD-17	8/8/2011	3334.74	53.04	NM	NA	NA	3281.70	3281.70
MWD-17	2/6/2012	3334.74	52.90	NM	NA	NA	3281.84	3281.84
MWD-17	8/7/2012	3334.74	52.75	NM	NA	NA	3281.99	3281.99
MWD-17	2/5/2013	3334.74	52.70	NM	NA	NA	3282.04	3282.04
MWD-17	8/5/2013	3334.74	52.80	NM	NA	NA	3281.94	3281.94
MWD-17	2/3/2014	3334.74	52.63	NM	NA	NA	3282.11	3282.11
MWD-17	8/5/2014	3334.74	53.54	NM	NA	NA	3281.20	3281.20
MWD-17	2/2/2015	3334.74	52.69	NM	NA	NA	3282.05	3282.05
MWD-17	8/3/2015	3334.74	52.70	NM	NA	NA	3282.04	3282.04
MWD-17	3/28/2016	3334.74	52.66	NM	NA	NA	3282.08	3282.08
MWD-17	9/7/2016	3334.74	52.32	NM	NA	NA	3282.42	3282.42
MWD-17	4/3/2017	3334.74	52.45	NM	NA	NA	3282.29	3282.29
MWD-17	3/12/2018	3334.74	52.18	NM	NA	NA	3282.56	3282.56
MWD-17	9/24/2018	3334.74	NM	NM	NA	NA	NM	NM
MWD-17	4/1/2019	3334.74	52.24	NM	NA	NA	3282.50	3282.50
MWD-17	3/16/2020	3334.74	51.99	NM	NA	NA	3282.75	3282.75
MWD-17	3/18/2021	3334.74	51.58	NM	NA	NA	3283.16	3283.16
MWD-17	9/20/2021	3334.74	51.42	NM	NA	NA	3283.32	3283.32
MWD-17	2/22/2022	3334.74	51.51	NM	NA	NA	3283.23	3283.23
MWD-17	2/28/2023	3334.74	51.49	NM	NA	NA	3283.25	3283.25
RW-1	3/9/2009	3335.19	54.47	51.98	2.49	0.74	3280.72	3282.56
RW-1	8/5/2009	3335.19	55.01	51.92	3.09	0.74	3280.18	3282.47
RW-1	2/2/2010	3335.19	55.25	52.00	3.25	0.74	3279.94	3282.35
RW-1	8/2/2010	3335.19	55.20	51.98	3.22	0.74	3279.99	3282.37
RW-1	4/4/2011	3335.19	54.78	51.84	2.94	0.74	3280.41	3282.59

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Appendix C
Historical Groundwater Elevations
2021 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

ARCADIS

Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
RW-1	8/8/2011	3335.19	54.45	51.73	2.72	0.74	3280.74	3282.75
RW-1	2/6/2012	3335.19	55.20	52.13	3.07	0.74	3279.99	3282.26
RW-1	8/14/2012	3335.19	54.68	51.77	2.91	0.74	3280.51	3282.66
RW-1	2/5/2013	3335.19	54.53	51.78	2.75	0.74	3280.66	3282.70
RW-1	8/5/2013	3335.19	54.50	51.70	2.8	0.74	3280.69	3282.76
RW-1	2/3/2014	3335.19	53.37	51.67	1.7	0.74	3281.82	3283.08
RW-1	8/5/2014	3335.19	54.41	51.69	2.72	0.74	3280.78	3282.79
RW-1	2/2/2015	3335.19	53.36	51.45	1.91	0.74	3281.83	3283.24
RW-1	8/3/2015	3335.19	53.36	51.41	1.95	0.74	3281.83	3283.27
RW-1	3/29/2016	3335.19	53.11	51.25	1.86	0.74	3282.08	3283.46
RW-1	9/13/2016	3335.19	53.13	51.30	1.83	0.74	3282.06	3283.41
RW-1	4/3/2017	3335.19	52.94	51.16	1.78	0.74	3282.25	3283.57
RW-1	3/13/2018	3335.19	52.78	51.16	1.62	0.74	3282.41	3283.61
RW-1	9/24/2018	3335.19	NM	51.16	NA	0.74	NM	NM
RW-1	4/1/2019	3335.19	52.72	51.09	1.63	0.74	3282.47	3283.68
RW-1	10/1/2019	3335.19	52.85	51.29	1.56	0.74	3282.34	3283.49
RW-1	3/17/2020	3335.19	52.83	51.17	1.66	0.74	3282.36	3283.59
RW-1	3/15/2021	3335.19	52.81	51.12	1.69	0.74	3282.38	3283.63
RW-1	9/29/2021	3335.19	52.88	51.19	1.69	0.74	3282.31	3283.56
RW-1	2/22/2022	3335.19	53.08	51.34	1.74	0.74	3282.11	3283.40
RW-2	3/9/2009	3337.84	58.04	55.75	2.29	0.74	3279.80	3281.49
RW-2	8/5/2009	3337.84	58.31	55.79	2.52	0.74	3279.53	3281.39
RW-2	2/2/2010	3337.84	58.45	55.82	2.63	0.74	3279.39	3281.34
RW-2	8/2/2010	3337.84	58.45	55.84	2.61	0.74	3279.39	3281.32
RW-2	4/4/2011	3337.84	58.25	55.72	2.53	0.74	3279.59	3281.46
RW-2	8/8/2011	3337.84	58.23	55.73	2.5	0.74	3279.61	3281.46
RW-2	2/6/2012	3337.84	58.53	55.87	2.66	0.74	3279.31	3281.28
RW-2	8/14/2012	3337.84	58.31	55.65	2.66	0.74	3279.53	3281.50
RW-2	2/5/2013	3337.84	58.25	55.61	2.64	0.74	3279.59	3281.54
RW-2	8/5/2013	3337.84	57.89	55.35	2.54	0.74	3279.95	3281.83
RW-2	2/3/2014	3337.84	57.83	55.66	2.17	0.74	3280.01	3281.62
RW-2	8/5/2014	3337.84	58.17	55.61	2.56	0.74	3282.23	3280.34
RW-2	2/2/2015	3337.84	57.13	55.25	1.88	0.74	3280.71	3282.10
RW-2	8/3/2015	3337.84	57.18	55.30	1.88	0.74	3280.66	3282.05
RW-2	3/29/2016	3337.84	56.90	55.16	1.74	0.74	3280.94	3282.23
RW-2	9/13/2016	3337.84	56.90	56.90	0	0.74	3280.94	3280.94
RW-2	4/3/2017	3337.84	55.10	55.06	0.04	0.74	3282.74	3282.77
RW-2	3/13/2018	3337.84	56.53	55.03	1.5	0.74	3281.31	3282.42
RW-2	9/24/2018	3337.84	NM	55.03	NA	0.74	NM	NM
RW-2	4/1/2019	3337.84	56.47	54.95	1.52	0.74	3281.37	3282.49
RW-2	10/1/2019	3337.84	56.60	55.13	1.47	0.74	3281.24	3282.33
RW-2	3/17/2020	3337.84	56.54	55.1	1.44	0.74	3281.30	3282.37
RW-2	3/15/2021	3337.84	56.51	55.04	1.47	0.74	3281.33	3282.42
RW-2	9/29/2021	3337.84	55.12	NM	NA	NA	3282.72	3282.72
RW-2	2/22/2022	3337.84	56.72	55.23	1.49	0.74	3281.12	3282.22
RW-2	2/28/2023	3337.84	56.49	55.05	1.44	0.74	3281.35	3282.42
RW-3	3/9/2009	3338.06	57.15	56.37	0.78	0.72	3280.91	3281.47
RW-3	8/5/2009	3338.06	57.29	56.46	0.83	0.72	3280.77	3281.37
RW-3	2/2/2010	3338.06	57.45	56.58	0.87	0.72	3280.61	3281.24
RW-3	8/2/2010	3338.06	57.49	56.59	0.9	0.72	3280.57	3281.22
RW-3	4/4/2011	3338.06	57.23	56.40	0.83	0.72	3280.83	3281.43
RW-3	8/8/2011	3338.06	57.38	56.35	1.03	0.72	3280.68	3281.42
RW-3	2/6/2012	3338.06	57.50	56.52	0.98	0.72	3280.56	3281.27
RW-3	8/14/2012	3338.06	57.55	56.34	1.21	0.72	3280.51	3281.38
RW-3	2/5/2013	3338.06	57.61	56.31	1.3	0.72	3280.45	3281.39
RW-3	8/5/2013	3338.06	57.60	56.25	1.35	0.72	3280.46	3281.43
RW-3	2/3/2014	3338.06	57.58	56.20	1.38	0.72	3280.48	3281.47
RW-3	8/5/2014	3338.06	57.68	56.26	1.42	0.72	3280.38	3281.40
RW-3	2/2/2015	3338.06	56.21	55.94	0.27	0.72	3281.85	3282.04
RW-3	8/3/2015	3338.06	56.08	55.93	0.15	0.72	3281.98	3282.09
RW-3	3/29/2016	3338.06	55.84	55.67	0.17	0.72	3282.22	3282.34
RW-3	9/13/2016	3338.06	55.72	NM	NA	0.72	3282.34	3282.34
RW-3	4/3/2017	3338.06	55.59	NM	NA	0.72	3282.47	3282.47
RW-3	3/13/2018	3338.06	55.71	55.54	0.17	0.72	3282.35	3282.47
RW-3	9/24/2018	3338.06	NM	55.54	NA	0.72	NM	NM
RW-3	4/4/2019	3338.06	55.55	55.55	0	0.72	3282.51	3282.51
RW-3	10/1/2019	3338.06	55.72	NM	NA	0.72	3282.34	3282.34
RW-3	3/16/2020	3338.06	55.69	55.62	0.07	0.72	3282.37	3282.42
RW-3	3/15/2021	3338.06	55.68	55.59	0.09	0.72	3282.38	3282.44
RW-3	9/29/2021	3338.06	55.49	NM	NA	NA	3282.57	3282.57
RW-3	2/22/2022	3338.06	55.77	55.76	0.01	0.72	3282.29	3282.30
RW-3	2/28/2023	3338.06	55.66	55.56	0.1	0.72	3282.40	3282.47
RW-4	3/9/2009	3334.14	57.70	54.63	3.07	0.72	3276.44	3278.65
RW-4	8/5/2009	3334.14	58.04	54.67	3.37	0.72	3276.10	3278.53
RW-4	2/2/2010	3334.14	58.00	54.77	3.23	0.72	3276.14	3278.47
RW-4	8/2/2010	3334.14	58.37	54.80	3.57	0.72	3275.77	3278.34

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Appendix C
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Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

ARCADIS

Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
RW-4	4/4/2011	3334.14	57.77	54.57	3.2	0.72	3276.37	3278.67
RW-4	8/8/2011	3334.14	57.54	54.54	3	0.72	3276.60	3278.76
RW-4	2/6/2012	3334.14	58.10	54.79	3.31	0.72	3276.04	3278.42
RW-4	8/14/2012	3334.14	57.77	54.49	3.28	0.72	3276.37	3278.73
RW-4	2/5/2013	3334.14	57.70	54.45	3.25	0.72	3276.44	3278.78
RW-4	8/5/2013	3334.14	57.65	54.42	3.23	0.72	3276.49	3278.82
RW-4	2/3/2014	3334.14	57.57	54.42	3.15	0.72	3276.57	3278.84
RW-4	8/5/2014	3334.14	57.67	54.51	3.16	0.72	3276.47	3278.75
RW-4	2/2/2015	3334.14	50.95	50.80	0.15	0.72	3283.19	3283.30
RW-4	8/3/2015	3334.14	56.08	53.89	2.19	0.72	3278.06	3279.64
RW-4	3/29/2016	3334.14	56.78	53.80	2.98	0.72	3277.36	3279.51
RW-4	9/13/2016	3334.14	55.96	53.84	2.12	0.72	3278.18	3279.71
RW-4	4/3/2017	3334.14	55.72	53.75	1.97	0.72	3278.42	3279.84
RW-4	3/13/2018	3334.14	55.50	53.68	1.82	0.72	3278.64	3279.95
RW-4	9/24/2018	3334.14	NM	53.68	NA	0.72	NM	NM
RW-4	4/1/2019	3334.14	55.65	53.70	1.95	0.72	3278.49	3279.89
RW-4	10/1/2019	3334.14	53.89	NM	NA	0.72	3280.25	3280.25
RW-4	3/17/2020	3334.14	NM	53.84	NA	0.72	NM	NM
RW-4	3/15/2021	3334.14	55.58	53.80	1.78	0.72	3278.56	3279.84
RW-4	9/29/2021	3334.14	55.40	53.79	1.61	0.72	3278.74	3279.90
RW-4	2/22/2022	3334.14	55.41	53.68	1.73	0.72	3278.73	3279.98
RW-4	2/28/2023	3334.14	55.45	53.75	1.7	0.72	3278.69	3279.91
RW-5	3/9/2009	3334.2	57.60	55.23	2.37	0.72	3276.60	3278.31
RW-5	8/5/2009	3334.2	58.09	55.28	2.81	0.72	3276.11	3278.13
RW-5	2/2/2010	3334.2	58.13	55.35	2.78	0.72	3276.07	3278.07
RW-5	8/2/2010	3334.2	58.00	55.37	2.63	0.72	3276.20	3278.09
RW-5	4/4/2011	3334.2	58.11	55.25	2.86	0.72	3276.09	3278.15
RW-5	8/8/2011	3334.2	NM	NM	NA	0.72	NM	NM
RW-5	2/6/2012	3334.2	58.18	55.33	2.85	0.72	3276.02	3278.07
RW-5	8/14/2012	3334.2	58.07	55.21	2.86	0.72	3276.13	3278.19
RW-5	2/5/2013	3334.2	58.00	54.20	3.8	0.72	3276.20	3278.94
RW-5	8/5/2013	3334.2	58.01	55.15	2.86	0.72	3276.19	3278.25
RW-5	2/3/2014	3334.2	57.87	55.12	2.75	0.72	3276.33	3278.31
RW-5	8/5/2014	3334.2	NM	55.19	NA	0.72	NM	NM
RW-5	2/2/2015	3334.2	55.84	54.94	0.9	0.72	3278.36	3279.01
RW-5	8/3/2015	3334.2	56.09	54.89	1.2	0.72	3278.11	3278.97
RW-5	3/29/2016	3334.2	55.32	54.74	0.58	0.72	3278.88	3279.30
RW-5	9/13/2016	3334.2	55.53	54.78	0.75	0.72	3278.67	3279.21
RW-5	4/3/2017	3334.2	54.70	54.66	0.04	0.72	3279.50	3279.53
RW-5	3/13/2018	3334.2	55.01	54.66	0.35	0.72	3279.19	3279.44
RW-5	9/24/2018	3334.2	NM	54.66	NA	0.72	NM	NM
RW-5	4/1/2019	3334.2	55.06	54.64	0.42	0.72	3279.14	3279.44
RW-5	10/1/2019	3334.2	55.34	54.45	0.89	0.72	3278.86	3279.50
RW-5	3/17/2020	3334.2	55.03	54.72	0.31	0.72	3279.17	3279.39
RW-5	3/15/2021	3334.2	55.28	54.67	0.61	0.72	3278.92	3279.36
RW-5	9/29/2021	3334.2	55.14	54.71	0.43	0.72	3279.06	3279.37
RW-5	2/22/2022	3334.2	55.08	54.64	0.44	0.72	3279.12	3279.44
RW-5	2/28/2023	3334.2	55.19	54.64	0.55	0.72	3279.01	3279.41
RW-6	2/11/2009	3332.37	NM	NM	NA	NA	NM	NM
RW-6	8/17/2009	3332.37	NM	NM	NA	NA	NM	NM
RW-6	2/2/2010	3332.37	NM	NM	NA	NA	NM	NM
RW-6	8/2/2010	3332.37	NM	NM	NA	NA	NM	NM
RW-6	4/11/2011	3332.37	NM	NM	NA	NA	NM	NM
RW-6	8/8/2011	3332.37	NM	NM	NA	NA	NM	NM
RW-6	2/6/2012	3332.37	NM	NM	NA	NA	NM	NM
RW-6	8/7/2012	3332.37	NM	NM	NA	NA	NM	NM
RW-6	2/5/2013	3332.37	NM	NM	NA	NA	NM	NM
RW-6	8/5/2013	3332.37	50.87	NM	NA	NA	3281.50	3281.50
RW-6	2/3/2014	3332.37	50.68	NM	NA	NA	3281.69	3281.69
RW-6	8/5/2014	3332.37	51.20	NM	NA	NA	3281.17	3281.17
RW-6	2/2/2015	3332.37	49.80	NM	NA	NA	3282.57	3282.57
RW-6	8/3/2015	3332.37	50.15	NM	NA	NA	3282.22	3282.22
RW-6	3/28/2016	3332.37	49.92	NM	NA	NA	3282.45	3282.45
RW-6	9/7/2016	3332.37	49.66	NM	NA	NA	3282.71	3282.71
RW-6	4/3/2017	3332.37	49.91	NM	NA	NA	3282.46	3282.46
RW-6	9/12/2017	3332.37	49.81	NM	NA	NA	3282.56	3282.56
RW-6	3/12/2018	3332.37	49.75	NM	NA	NA	3282.62	3282.62
RW-6	9/24/2018	3332.37	52.30	NM	NA	NA	3280.07	3280.07
RW-6	4/1/2019	3332.37	49.70	NM	NA	NA	3282.67	3282.67
RW-6	10/1/2019	3332.37	50.49	NM	NA	NA	3281.88	3281.88
RW-6	9/22/2020	3332.37	49.64	NM	NA	NA	3282.73	3282.73
RW-6	3/16/2020	3332.37	49.92	NM	NA	NA	3282.45	3282.45
RW-6	3/17/2021	3332.37	49.55	NM	NA	NA	3282.82	3282.82
RW-6	9/20/2021	3332.37	49.48	NM	NA	NA	3282.89	3282.89
RW-6	2/22/2022	3332.37	49.54	NM	NA	NA	3282.83	3282.83
RW-6	9/27/2022	3332.37	49.61	NM	NA	NA	3282.76	3282.76

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ARCADIS

Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
RW-6	2/28/2023	3332.37	49.53	NM	NA	NA	3282.84	3282.84
RW-6	10/30/2023	3332.37	49.66	NM	NA	NA	3282.71	3282.71
RW-7	2/11/2009	3331.23	NM	NM	NA	NA	NM	NM
RW-7	8/17/2009	3331.23	NM	NM	NA	NA	NM	NM
RW-7	2/2/2010	3331.23	NM	NM	NA	NA	NM	NM
RW-7	8/2/2010	3331.23	NM	NM	NA	NA	NM	NM
RW-7	4/11/2011	3331.23	NM	NM	NA	NA	NM	NM
RW-7	8/8/2011	3331.23	NM	NM	NA	NA	NM	NM
RW-7	2/6/2012	3331.23	NM	NM	NA	NA	NM	NM
RW-7	8/7/2012	3331.23	NM	NM	NA	NA	NM	NM
RW-7	2/5/2013	3331.23	NM	NM	NA	NA	NM	NM
RW-7	8/5/2013	3331.23	52.55	NM	NA	NA	3278.68	3278.68
RW-7	2/3/2014	3331.23	52.40	NM	NA	NA	3278.83	3278.83
RW-7	8/5/2014	3331.23	53.05	NM	NA	NA	3278.18	3278.18
RW-7	2/2/2015	3331.23	52.43	NM	NA	NA	3278.80	3278.80
RW-7	8/3/2015	3331.23	52.53	NM	NA	NA	3278.70	3278.70
RW-7	3/28/2016	3331.23	52.41	NM	NA	NA	3278.82	3278.82
RW-7	9/7/2016	3331.23	52.13	NM	NA	NA	3279.10	3279.10
RW-7	4/3/2017	3331.23	52.34	NM	NA	NA	3278.89	3278.89
RW-7	9/12/2017	3331.23	52.22	NM	NA	NA	3279.01	3279.01
RW-7	3/12/2018	3331.23	51.96	NM	NA	NA	3279.27	3279.27
RW-7	9/24/2018	3331.23	52.22	NM	NA	NA	3279.01	3279.01
RW-7	4/1/2019	3331.23	51.76	NM	NA	NA	3279.47	3279.47
RW-7	10/1/2019	3331.23	52.28	NM	NA	NA	3278.95	3278.95
RW-7	3/16/2020	3331.23	51.68	NM	NA	NA	3279.55	3279.55
RW-7	3/19/2021	3331.23	50.81	NM	NA	NA	3280.42	3280.42
RW-7	9/20/2021	3331.23	50.75	NM	NA	NA	3280.48	3280.48
RW-7	2/22/2022	3331.23	50.76	NM	NA	NA	3280.47	3280.47
RW-7	2/28/2023	3331.23	50.71	NM	NA	NA	3280.52	3280.52
RW-8	2/11/2009	3333.39	NM	NM	NA	NA	NM	NM
RW-8	8/17/2009	3333.39	NM	NM	NA	NA	NM	NM
RW-8	2/2/2010	3333.39	NM	NM	NA	NA	NM	NM
RW-8	8/2/2010	3333.39	NM	NM	NA	NA	NM	NM
RW-8	4/11/2011	3333.39	NM	NM	NA	NA	NM	NM
RW-8	8/8/2011	3333.39	NM	NM	NA	NA	NM	NM
RW-8	2/6/2012	3333.39	NM	NM	NA	NA	NM	NM
RW-8	8/7/2012	3333.39	NM	NM	NA	NA	NM	NM
RW-8	2/28/2023	3333.39	52.28	NM	NA	NA	3281.11	3281.11

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Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
RW-8	2/5/2013	3333.39	NM	NM	NA	NA	NM	NM
RW-8	8/5/2013	3333.39	53.82	NM	NA	NA	3279.57	3279.57
RW-8	2/3/2014	3333.39	53.66	NM	NA	NA	3279.73	3279.73
RW-8	8/5/2014	3333.39	53.98	NM	NA	NA	3279.41	3279.41
RW-8	2/2/2015	3333.39	53.55	NM	NA	NA	3279.84	3279.84
RW-8	8/3/2015	3333.39	53.45	NM	NA	NA	3279.94	3279.94
RW-8	3/29/2016	3333.39	53.37	NM	NA	NA	3280.02	3280.02
RW-8	9/9/2016	3333.39	53.35	NM	NA	NA	3280.04	3280.04
RW-8	4/3/2017	3333.39	53.30	NM	NA	NA	3280.09	3280.09
RW-8	3/12/2018	3333.39	53.04	NM	NA	NA	3280.35	3280.35
RW-8	9/24/2018	3333.39	NM	NM	NA	NA	NM	NM
RW-8	4/1/2019	3333.39	52.92	NM	NA	NA	3280.47	3280.47
RW-8	3/16/2020	3333.39	52.92	NM	NA	NA	3280.47	3280.47
RW-8	3/18/2021	3333.39	52.37	NM	NA	NA	3281.02	3281.02
RW-8	9/20/2021	3333.39	52.30	NM	NA	NA	3281.09	3281.09
RW-8	2/22/2022	3333.39	49.70	NM	NA	NA	3283.69	3283.69
TMW-1	2/10/2009	3337.7	54.61	NM	NA	NA	3283.09	3283.09
TMW-1	8/4/2009	3337.7	54.61	NM	NA	NA	3283.09	3283.09
TMW-1	2/2/2010	3337.7	54.69	NM	NA	NA	3283.01	3283.01
TMW-1	8/2/2010	3337.7	54.77	NM	NA	NA	3282.93	3282.93
TMW-1	4/4/2011	3337.7	54.56	NM	NA	NA	3283.14	3283.14
TMW-1	8/8/2011	3337.7	54.50	NM	NA	NA	3283.20	3283.20
TMW-1	2/6/2012	3337.7	54.48	NM	NA	NA	3283.22	3283.22
TMW-1	8/6/2012	3337.7	54.44	NM	NA	NA	3283.26	3283.26
TMW-1	2/5/2013	3337.7	54.42	NM	NA	NA	3283.28	3283.28
TMW-1	8/5/2013	3337.7	54.57	NM	NA	NA	3283.13	3283.13
TMW-1	2/3/2014	3337.7	54.38	NM	NA	NA	3283.32	3283.32
TMW-1	8/5/2014	3337.7	54.41	NM	NA	NA	3283.29	3283.29
TMW-1	2/2/2015	3337.7	54.05	NM	NA	NA	3283.65	3283.65
TMW-1	8/3/2015	3337.7	54.01	NM	NA	NA	3283.69	3283.69
TMW-1	3/29/2016	3337.7	53.79	NM	NA	NA	3283.91	3283.91
TMW-1	9/12/2016	3337.7	53.71	NM	NA	NA	3283.99	3283.99
TMW-1	4/3/2017	3337.7	53.66	NM	NA	NA	3284.04	3284.04
TMW-1	9/12/2017	3337.7	53.61	NM	NA	NA	3284.09	3284.09
TMW-1	3/15/2018	3337.7	52.53	NM	NA	NA	3285.17	3285.17
TMW-1	9/24/2018	3337.7	53.47	NM	NA	NA	3284.23	3284.23
TMW-1	4/1/2019	3337.7	54.52	NM	NA	NA	3283.18	3283.18
TMW-1	10/1/2019	3337.7	53.65	NM	NA	NA	3284.05	3284.05
TMW-1	3/16/2020	3337.7	53.57	NM	NA	NA	3284.13	3284.13
TMW-1	3/17/2021	3337.7	53.54	NM	NA	NA	3284.16	3284.16
TMW-1	9/29/2021	3337.7	53.43	NM	NA	NA	3284.27	3284.27
TMW-1	2/22/2022	3337.7	53.76	NM	NA	NA	3283.94	3283.94
TMW-1	2/28/2023	3337.7	53.44	NM	NA	NA	3284.26	3284.26
TMW-2	2/18/2009	3338.3	55.95	55.11	0.84	0.82	3282.35	3283.04
TMW-2	3/18/2009	3338.3	56.08	55.18	0.9	0.82	3282.22	3282.96
TMW-2	8/5/2009	3338.3	56.15	55.20	0.95	0.82	3282.15	3282.93
TMW-2	2/2/2010	3338.3	56.59	55.25	1.34	0.82	3281.71	3282.81
TMW-2	8/2/2010	3338.3	56.67	55.22	1.45	0.82	3281.63	3282.82
TMW-2	4/4/2011	3338.3	56.65	55.06	1.59	0.82	3281.65	3282.95
TMW-2	8/8/2011	3338.3	56.64	55.00	1.64	0.82	3281.66	3283.00
TMW-2	2/6/2012	3338.3	56.70	54.96	1.74	0.82	3281.60	3283.03
TMW-2	8/6/2012	3338.3	56.12	54.93	1.19	0.82	3282.18	3283.16
TMW-2	2/5/2013	3338.3	56.81	54.90	1.91	0.82	3281.49	3283.06
TMW-2	8/5/2013	3338.3	56.97	56.04	0.93	0.82	3281.33	3282.09
TMW-2	2/3/2014	3338.3	56.77	54.84	1.93	0.82	3281.53	3283.11
TMW-2	8/5/2014	3338.3	56.93	54.88	2.05	0.82	3281.37	3283.05
TMW-2	2/2/2015	3338.3	54.90	54.65	0.25	0.82	3283.40	3283.61
TMW-2	8/3/2015	3338.3	54.89	54.60	0.29	0.82	3283.41	3283.65
TMW-2	3/29/2016	3338.3	54.97	54.40	0.57	0.82	3283.33	3283.80
TMW-2	9/13/2016	3338.3	54.78	54.38	0.4	0.82	3283.52	3283.85
TMW-2	4/3/2017	3338.3	54.85	54.27	0.58	0.82	3283.45	3283.93
TMW-2	3/15/2018	3338.3	54.57	54.15	0.42	0.82	3283.73	3284.07
TMW-2	9/24/2018	3338.3	NM	54.15	NA	0.82	NM	NM
TMW-2	4/1/2019	3338.3	54.66	54.16	0.5	0.82	3283.64	3284.05
TMW-2	3/15/2021	3338.3	54.35	54.17	0.18	0.82	3283.95	3284.10
TMW-2	9/29/2021	3338.3	54.69	54.21	0.48	0.82	3283.61	3284.00
TMW-2	2/28/2023	3338.3	54.74	54.12	0.62	0.82	3283.56	3284.18
TMW-3	2/17/2009	3336.67	53.77	NM	NA	0.82	3282.90	3282.90
TMW-3	8/5/2009	3336.67	53.91	53.90	0.01	0.82	3282.76	3282.77
TMW-3	2/2/2010	3336.67	54.01	NM	NA	0.82	3282.66	3282.66
TMW-3	8/2/2010	3336.67	53.97	NM	NA	0.82	3282.70	3282.70
TMW-3	4/4/2011	3336.67	53.78	NM	NA	0.82	3282.89	3282.89
TMW-3	8/8/2011	3336.67	53.70	NM	NA	0.82	3282.97	3282.97
TMW-3	2/6/2012	3336.67	53.77	NM	NA	0.82	3282.90	3282.90
TMW-3	8/7/2012	3336.67	53.72	NM	NA	0.82	3282.95	3282.95
TMW-3	2/5/2013	3336.67	53.72	NM	NA	0.82	3282.95	3282.95

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Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
TMW-3	8/5/2013	3336.67	53.60	NM	NA	0.82	3283.07	3283.07
TMW-3	2/3/2014	3336.67	53.61	NM	NA	0.82	3283.06	3283.06
TMW-3	8/5/2014	3336.67	53.68	NM	NA	0.82	3282.99	3282.99
TMW-3	2/2/2015	3336.67	53.28	NM	NA	0.82	3283.39	3283.39
TMW-3	8/3/2015	3336.67	53.14	NM	NA	0.82	3283.53	3283.53
TMW-3	3/29/2016	3336.67	52.92	NM	NA	0.82	3283.75	3283.75
TMW-3	9/12/2016	3336.67	52.94	NM	NA	0.82	3283.73	3283.73
TMW-3	4/3/2017	3336.67	52.79	NM	NA	0.82	3283.88	3283.88
TMW-3	3/13/2018	3336.67	52.75	NM	NA	0.82	3283.92	3283.92

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Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
TMW-3	9/24/2018	3336.67	NM	NM	NA	0.82	NM	NM
TMW-3	3/16/2020	3336.67	52.75	NM	NA	NA	3283.92	3283.92
TMW-3	3/16/2021	3336.67	52.71	NM	NA	NA	3283.96	3283.96
TMW-3	9/29/2021	3336.67	52.61	NM	NA	NA	3284.06	3284.06
TMW-3	2/28/2023	3336.67	52.63	NM	NA	NA	3284.04	3284.04
TMW-5	2/18/2009	3335.66	53.50	NM	NA	NA	3282.16	3282.16
TMW-5	8/4/2009	3335.66	53.51	NM	NA	NA	3282.15	3282.15
TMW-5	2/2/2010	3335.66	53.79	NM	NA	NA	3281.87	3281.87
TMW-5	8/2/2010	3335.66	53.81	NM	NA	NA	3281.85	3281.85
TMW-5	4/4/2011	3335.66	53.32	NM	NA	NA	3282.34	3282.34
TMW-5	8/8/2011	3335.66	NM	NM	NA	NA	NM	NM
TMW-5	2/6/2012	3335.66	NM	NM	NA	NA	NM	NM
TMW-5	8/7/2012	3335.66	NM	NM	NA	NA	NM	NM
TMW-5	2/5/2013	3335.66	NM	NM	NA	NA	NM	NM
TMW-5	2/3/2014	3335.66	NM	NM	NA	NA	NM	NM
TMW-5	8/5/2014	3335.66	NM	NM	NA	NA	NM	NM
TMW-5	3/29/2016	3335.66	NM	NM	NA	NA	NM	NM
TMW-6	2/17/2009	3335.36	52.36	NM	NA	NA	3283.00	3283.00
TMW-6	8/4/2009	3335.36	52.46	NM	NA	NA	3282.90	3282.90
TMW-6	2/2/2010	3335.36	52.59	NM	NA	NA	3282.77	3282.77
TMW-6	8/2/2010	3335.36	NM	NM	NA	NA	NM	NM
TMW-6	4/4/2011	3335.36	52.40	NM	NA	NA	3282.96	3282.96
TMW-6	8/8/2011	3335.36	52.35	NM	NA	NA	3283.01	3283.01
TMW-6	2/6/2012	3335.36	52.40	NM	NA	NA	3282.96	3282.96
TMW-6	8/7/2012	3335.36	52.36	NM	NA	NA	3283.00	3283.00
TMW-6	2/5/2013	3335.36	52.35	NM	NA	NA	3283.01	3283.01
TMW-6	8/5/2013	3335.36	52.25	NM	NA	NA	3283.11	3283.11
TMW-6	2/3/2014	3335.36	52.23	NM	NA	NA	3283.13	3283.13
TMW-6	8/5/2014	3335.36	52.27	NM	NA	NA	3283.09	3283.09
TMW-6	2/2/2015	3335.36	51.95	NM	NA	NA	3283.41	3283.41
TMW-6	8/3/2015	3335.36	51.80	NM	NA	NA	3283.56	3283.56
TMW-6	3/29/2016	3335.36	51.55	NM	NA	NA	3283.81	3283.81
TMW-6	9/12/2016	3335.36	51.53	NM	NA	NA	3283.83	3283.83
TMW-6	4/3/2017	3335.36	51.43	NM	NA	NA	3283.93	3283.93
TMW-6	9/12/2017	3335.36	51.37	NM	NA	NA	3283.99	3283.99
TMW-6	3/13/2018	3335.36	51.41	NM	NA	NA	3283.95	3283.95
TMW-6	9/24/2018	3335.36	51.50	NM	NA	NA	3283.86	3283.86
TMW-6	4/1/2019	3335.36	51.35	NM	NA	NA	3284.01	3284.01
TMW-6	10/1/2019	3335.36	54.48	NM	NA	NA	3280.88	3280.88
TMW-6	3/16/2020	3335.36	51.41	NM	NA	NA	3283.95	3283.95
TMW-6	3/19/2021	3335.36	50.37	NM	NA	NA	3284.99	3284.99
TMW-6	9/29/2021	3335.36	51.25	NM	NA	NA	3284.11	3284.11
TMW-6	2/22/2022	3335.36	51.56	NM	NA	NA	3283.80	3283.80
TMW-6	2/28/2023	3335.36	51.28	NM	NA	NA	3284.08	3284.08
WW-1	2/2/2009	3332.04	NM	NM	NA	NA	NM	NM
WW-1	8/17/2009	3332.04	NM	NM	NA	NA	NM	NM
WW-1	8/2/2010	3332.04	NM	NM	NA	NA	NM	NM
WW-1	4/11/2011	3332.04	NM	NM	NA	NA	NM	NM
WW-1	8/8/2011	3332.04	NM	NM	NA	NA	NM	NM
WW-1	2/6/2012	3332.04	NM	NM	NA	NA	NM	NM
WW-1	3/28/2016	3332.04	NM	NM	NA	NA	NM	NM
WW-2	2/2/2009	3331.46	49.91	NM	NA	NA	3281.55	3281.55
WW-2	8/17/2009	3331.46	NM	NM	NA	NA	NM	NM
WW-2	2/2/2010	3331.46	NM	NM	NA	NA	NM	NM
WW-2	8/2/2010	3331.46	NM	NM	NA	NA	NM	NM
WW-2	4/11/2011	3331.46	NM	NM	NA	NA	NM	NM
WW-2	8/8/2011	3331.46	NM	NM	NA	NA	NM	NM
WW-2	2/6/2012	3331.46	NM	NM	NA	NA	NM	NM
WW-2	3/29/2016	3331.46	49.20	NM	NA	NA	3282.26	3282.26
WW-2	9/6/2016	3331.46	49.20	NM	NA	NA	3282.26	3282.26
WW-2	4/3/2017	3331.46	49.10	NM	NA	NA	3282.36	3282.36
WW-2	3/12/2018	3331.46	49.07	NM	NA	NA	3282.39	3282.39
WW-2	9/24/2018	3331.46	NM	NM	NA	NA	NM	NM
WW-2	4/4/2019	3331.46	49.14	NM	NA	NA	3282.32	3282.32
WW-2	3/17/2020	3331.46	49.24	NM	NA	NA	3282.22	3282.22
WW-2	3/16/2021	3331.46	49.22	NM	NA	NA	3282.24	3282.24
WW-2	9/20/2021	3331.46	49.14	NM	NA	NA	3282.32	3282.32
WW-2	2/22/2022	3331.46	49.46	NM	NA	NA	3282.00	3282.00
WW-2	2/28/2023	3331.46	49.23	NM	NA	NA	3282.23	3282.23
WW-3	2/2/2009	3334.45	52.69	NM	NA	NA	3281.76	3281.76
WW-3	8/17/2009	3334.45	NM	NM	NA	NA	NM	NM
WW-3	2/2/2010	3334.45	NM	NM	NA	NA	NM	NM
WW-3	8/2/2010	3334.45	NM	NM	NA	NA	NM	NM
WW-3	4/11/2011	3334.45	NM	NM	NA	NA	NM	NM
WW-3	8/8/2011	3334.45	NM	NM	NA	NA	NM	NM
WW-3	2/6/2012	3334.45	NM	NM	NA	NA	NM	NM

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Location ID	Date	Top of Casing (feet amsl)	Depth To Groundwater (feet btoc)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Uncorrected Groundwater Elevation (feet amsl)	Corrected Groundwater Elevation (feet amsl)[1]
WW-3	3/28/2016	3334.45	NM	NM	NA	NA	NM	NM
WW-3	4/4/2017	3334.45	52.08	NM	NA	NA	3282.37	3282.37
WW-4	2/3/2009	3335.4	55.95	NM	NA	NA	3279.45	3279.45
WW-4	2/6/2012	3335.4	NM	NM	NA	NA	NM	NM
WW-4	3/28/2016	3335.4	NM	NM	NA	NA	NM	NM
WW-5	2/3/2009	3334.18	53.30	NM	NA	NA	3280.88	3280.88
WW-5	8/17/2009	3336.4	NM	NM	NA	NA	NM	NM
WW-5	2/2/2010	3334.18	NM	NM	NA	NA	NM	NM
WW-5	8/2/2010	3334.18	NM	NM	NA	NA	NM	NM
WW-5	4/11/2011	3334.18	NM	NM	NA	NA	NM	NM
WW-5	8/8/2011	3334.18	NM	NM	NA	NA	NM	NM
WW-5	2/6/2012	3334.18	NM	NM	NA	NA	NM	NM
WW-5	3/28/2016	3334.18	NM	NM	NA	NA	NM	NM
WW-6	2/3/2009	3329.72	50.30	NM	NA	NA	3279.42	3279.42
WW-6	8/17/2009	3329.72	NM	NM	NA	NA	NM	NM
WW-6	2/2/2010	3337.4	NM	NM	NA	NA	NM	NM
WW-6	8/2/2010	3329.72	NM	NM	NA	NA	NM	NM
WW-6	4/11/2011	3329.72	NM	NM	NA	NA	NM	NM
WW-6	8/8/2011	3329.72	NM	NM	NA	NA	NM	NM
WW-6	2/6/2012	3329.72	NM	NM	NA	NA	NM	NM
WW-6	3/28/2016	3329.72	NM	NM	NA	NA	NM	NM
WW-7	2/2/2009	3331.73	50.95	NM	NA	NA	3280.78	3280.78
WW-7	8/17/2009	3331.73	NM	NM	NA	NA	NM	NM
WW-7	2/2/2010	3338.4	NM	NM	NA	NA	NM	NM
WW-7	8/2/2010	3331.73	NM	NM	NA	NA	NM	NM
WW-7	4/11/2011	3331.73	NM	NM	NA	NA	NM	NM
WW-7	8/8/2011	3331.73	NM	NM	NA	NA	NM	NM
WW-7	2/6/2012	3331.73	NM	NM	NA	NA	NM	NM
WW-7	3/29/2016	3331.73	50.30	NM	NA	NA	3281.43	3281.43
WW-7	9/6/2016	3331.73	50.30	NM	NA	NA	3281.43	3281.43
WW-7	4/3/2017	3331.73	50.30	NM	NA	NA	3281.43	3281.43
WW-7	3/12/2018	3331.73	50.15	NM	NA	NA	3281.58	3281.58
WW-7	9/24/2018	3331.73	NM	NM	NA	NA	NM	NM
WW-7	4/4/2019	3331.73	50.21	NM	NA	NA	3281.52	3281.52
WW-7	3/17/2020	3331.73	50.31	NM	NA	NA	3281.42	3281.42
WW-7	3/16/2021	3331.73	50.28	NM	NA	NA	3281.45	3281.45
WW-7	9/20/2021	3331.73	50.20	NM	NA	NA	3281.53	3281.53
WW-7	2/22/2022	3331.73	50.52	NM	NA	NA	3281.21	3281.21
WW-7	2/28/2023	3331.73	50.29	NM	NA	NA	3281.44	3281.44
WW-8	8/2/2010	3339.4	NM	NM	NA	NA	NM	NM
WW-10	8/8/2011	3341.40	NM	NM	NA	NA	NM	NM

Note:

[1] Groundwater elevations corrected using an assumed LNAPL specific gravity ranging from 0.72 to 0.82 based on limited LNAPL characterization conducted during 2017. The formula used to correct groundwater elevation is as follows

$$Corrected\ GW\ Elevation = TOC\ Elevation - (DTW - LNAPL\ Thickness * LNAPL\ Specific\ Gravity)$$

Acronyms and Abbreviations:

amsl = above mean sea level

btoc = below top of casing

DTW = depth to groundwater

GW = groundwater

ID = identification

LNAPL = light nonaqueous phase liquid

NA = not applicable

NM = not measured

TOC = top of casing

* active recovery well

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APPENDIX D

Laboratory Analytical Reports and Data Validation Review

ARCADIS

Chevron South Eunice

Data Review

South Eunice, New Mexico

Volatile organic compounds, Total Petroleum Hydrocarbons, Metals and Miscellaneous Analyses

SDGs # 880-25343-1, 880-25396-1 and 880-25433-1

Analyses Performed By:

Eurofins Laboratories

Midland, Texas

Report # 52419R
Review Level: Tier II
Project: 30180531.00003

Summary

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) #880-25343-1, 880-25396-1 and 880-25433-1 for samples collected in association with the Chevron South Eunice Site, New Mexico. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets and chain of custody. Analyses were performed on the following samples:

SDGs	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis			
						VOC	TPH	MET	MISC
880-25343-1	MW-15-W-230301	880-25343-1	Water	03/01/2023		X	X	X	X
	MW-16-W-230301	880-25343-2	Water	03/01/2023		X	X	X	X
	MW-36-W-230301	880-25343-3	Water	03/01/2023		X	X	X	X
	MW-35-W-230301	880-25343-4	Water	03/01/2023		X	X	X	X
	MW-34-W-230301	880-25343-5	Water	03/01/2023		X	X	X	X
	MWD-6-W-230301	880-25343-6	Water	03/01/2023		X	X	X	X
	MW-30-W-230301	880-25343-7	Water	03/01/2023		X	X	X	X
	MW-9-W-230301	880-25343-8	Water	03/01/2023		X	X	X	X
	WW-7-W-230301	880-25343-9	Water	03/01/2023		X	X	X	X
	WW-2-W-230301	880-25343-10	Water	03/01/2023		X	X	X	X
	MW-8-W-230301	880-25343-11	Water	03/01/2023		X	X	X	X
	MW-29-W-230301	880-25343-12	Water	03/01/2023		X	X	X	X
	MW-13-W-230301	880-25343-13	Water	03/01/2023		X	X	X	X
	MW-31-W-230301	880-25343-14	Water	03/01/2023		X	X	X	X
	MW-14-W-230301	880-25343-15	Water	03/01/2023		X	X	X	X
	MW-37-W-230301	880-25343-16	Water	03/01/2023		X	X	X	X
	MW-38-W-230301	880-25343-17	Water	03/01/2023		X	X	X	X
	MW-32-W-230301	880-25343-18	Water	03/01/2023		X	X	X	X
	MWD-5-W-230301	880-25343-19	Water	03/01/2023		X	X	X	X
	DUP-1-W-230301	880-25343-20	Water	03/01/2023	MW-15-W-230301	X	X	X	X
	DUP-2-W-230301	880-25343-21	Water	03/01/2023	MW-34-W-230301	X	X	X	X
880-25396-1	MWD-12-W-230302	880-25396-1	Water	03/02/2023		X	X	X	X
	MWD-4-W-230302	880-25396-2	Water	03/02/2023		X	X	X	X
	MWD-13-W-230302	880-25396-3	Water	03/02/2023		X	X	X	X
	RW-6-W-230302	880-25396-4	Water	03/02/2023		X	X	X	X
	RW-7-W-230302	880-25396-5	Water	03/02/2023		X	X	X	X
	MWD-17-W-230302	880-25396-6	Water	03/02/2023		X	X	X	X
	MW-22-W-230302	880-25396-7	Water	03/02/2023		X	X	X	X
	MWD-3-W-230302	880-25396-8	Water	03/02/2023		X	X	X	X
	MWD-7-W-230302	880-25396-9	Water	03/02/2023		X	X	X	X
	MW-17-W-230302	880-25396-10	Water	03/02/2023		X	X	X	X
	MWD-1-W-230302	880-25396-11	Water	03/02/2023		X	X	X	X

DATA REVIEW REPORT

SDGs	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis			
						VOC	TPH	MET	MISC
	MWD-8-W-230302	880-25396-12	Water	03/02/2023		X	X	X	X
	MWD-2-W-230302	880-25396-13	Water	03/02/2023		X	X	X	X
	MW-4-W-230302	880-25396-14	Water	03/02/2023		X	X	X	X
880-25433-1	RW-8-W-230303	880-25433-1	Water	03/03/2023		X	X	X	X
	MWD-15-W-230303	880-25433-2	Water	03/03/2023		X	X	X	X
	MWD-14-W-230303	880-25433-3	Water	03/03/2023		X	X	X	X
	MW-3-W-230303	880-25433-4	Water	03/03/2023		X	X	X	X
	MWD-11-W-230303	880-25433-5	Water	03/03/2023		X	X	X	X
	TMW-1-W-230303	880-25433-6	Water	03/03/2023		X	X	X	X
	MW-25-W-230303	880-25433-7	Water	03/03/2023		X	X	X	X
	TMW-6-W-230303	880-25433-8	Water	03/03/2023		X	X	X	X
	MW-24-W-230303	880-25433-9	Water	03/03/2023		X	X	X	X
	MW-11-W-230303	880-25433-10	Water	03/03/2023		X	X	X	X
	MW-26-W-230303	880-25433-11	Water	03/03/2023		X	X	X	X

Notes:
VOC - Volatile organic compounds.
TPH - total petroleum hydrocarbons.
MET - metals.
MISC - miscellaneous includes hexavalent chromium, chloride and total dissolved solids.

Sample ID MWD-4-W-230302 (Lab Id: 880-25396-14) is changed to MW-4-W-230302 according to chain of custody.

Analytical Data Package Documentation

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

Note:
QA - Quality Assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8021B and 8015 B (NM). Data were reviewed in accordance USEPA National Functional Guidelines NFG for Organic Superfund Methods Data Review, EPA-540-R-20-005 (November 2020), with reference to the historical (USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999, as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
  - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
  - E The compound was quantitated above the calibration range.
  - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
  - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
  - UB Compound considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8021B	Water	14 days from collection to analysis (preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.

Note:
s.u. - Standard units

SDGs# 880-25343-1, 880-25396-1 and 880-25433-1: All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit. The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

SDGs# 880-25343-1, 880-25396-1 and 880-25433-1: Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.
SDGs# 880-25343-1, 880-25396-1 and 880-25433-1: Sample locations associated with surrogates exhibiting recoveries outside of the control limits presented in the following table.

SDG	Sample ID	Surrogate	Recovery
880-25343-1	MW-9-W-230301	1,4-Difluorobenzene	<10%
880-25396-1	MWD-12-W-230302	4-Bromofluorobenzene	> UL
	MWD-17-W-230302	,4-Difluorobenzene	< LL but > 10%
	MWD-3-W-230302		>UL
880-25433-1	MWD-15-W-230303 TMW-6-W-230303 MW-11-W-230303 MW-26-W-230303	4-Bromofluorobenzene	>UL
	MWD-14-W-230303	1,4-Difluorobenzene	

SDG	Sample ID	Surrogate	Recovery
	MW-25-W-230303	4-Bromofluorobenzene 1,4-Difluorobenzene	
	MW-24-W-230303	4-Bromofluorobenzene	< LL but > 10%

Notes:
UL- Upper control limit
LL- Lower control limit

The criteria used to evaluate the surrogate recoveries are presented in the following table. In the case of a surrogate deviation, the sample results associated with the deviant fraction are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	No Action
	Detect	J
< LL but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Surrogates diluted below the calibration curve due to the high concentration of a target compounds	Non-detect	J

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

SDG#880-25343-1: MS/MSD analysis was performed on sample ID MW-15-W-230301 and DUP-2-W-230301 exhibited acceptable recoveries and RPDs with below exceptions.

MS/MSD analysis was performed on sample ID DUP-2-W-230301, exhibited acceptable recoveries and RPDs with below exceptions.

SDGs# 880-25396-1 and 880-25433-1: MS/MSD analysis was not performed on sample from this SDG.

SDG	Sample ID	Compounds	MS Recovery	MSD Recovery
880-25343-1	DUP-2-W-230301	Benzene	>UL	>UL
		m-Xylene & p-Xylene		
		o-Xylene		

Note:
UL- Upper control limit

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

SDG# 880-25343-1: All compounds associated with the LCS/LCSD analysis exhibited recoveries within the control limits with the exception noted below,

SDG# 880-25396-1: All compounds associated with the LCS/LCSD analysis exhibited recoveries within the control limits with the exception noted below,

SDG# 880-25433-1: All compounds associated with the LCS/LCSD analysis exhibited recoveries within the control limits with the exception noted below,

SDG	Sample ID	Batch	Compounds	LCS Recovery	LCSD Recovery
880-25343-1	MW-8-W-230301 MW-29-W-230301 MW-13-W-230301 MW-31-W-230301 MW-14-W-230301 MW-37-W-230301 MW-38-W-230301 MW-32-W-230301 MWD-5-W-230301 DUP-2-W-230301	48623	o-Xylene	>UL	AC
880-25396-1	MWD-12-W-230302 MWD-4-W-230302 MWD-13-W-230302 RW-7-W-230302 MWD-7-W-230302 MW-17-W-230302 MWD-1-W-230302 MWD-8-W-230302	47689	Benzene	< LL but > 10%	AC
			Toluene		
			Ethylbenzene		
			m-Xylene & p-Xylene		>UL
			o-Xylene		
	RW-6-W-230302 MWD-17-W-230302 MW-22-W-230302	48623	o-Xylene	>UL	AC

SDG	Sample ID	Batch	Compounds	LCS Recovery	LCSD Recovery
880-25433-1	RW-8-W-230303 MWD-15-W-230303 MWD-14-W-230303 MW-3-W-230303 MWD-11-W-230303 TMW-1-W-230303 MW-25-W-230303 TMW-6-W-230303 MW-24-W-230303 MW-11-W-230303 MW-26-W-230303	48575	Toluene	< LL but > 10%	AC

Notes:
UL – Upper control limit
LL – Lower control limit
AC – Acceptable

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

Sample locations associated with LCS/LCSD recoveries exhibiting an RPD greater than of the control limit presented in the following table.

SDG	Sample ID	Compound
880-25343-1	MW-15-W-230301 MW-16-W-230301 MW-36-W-230301 MW-35-W-230301 MW-34-W-230301 MWD-6-W-230301 MW-30-W-230301 MW-9-W-230301 WW-7-W-230301 WW-2-W-230301 DUP-1-W-230301	Benzene
880-25396-1	MWD-12-W-230302 MWD-4-W-230302 MWD-13-W-230302 RW-7-W-230302 MWD-7-W-230302 MW-17-W-230302 MWD-1-W-230302 MWD-8-W-230302	Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene

SDG	Sample ID	Compound
	MWD-2-W-230302 MW-4-W-230302	Benzene

The criteria used to evaluate the RPD between the LCS/LCSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

SDGs# 880-25396-1 and 880-25433-1: Field duplicate sample was not collected for the samples from these SDGs.
SDG#880-25343-1: Results for duplicate samples are summarized in the following table.

SDG	Sample ID/Duplicate ID	Compounds	Sample Result	Duplicate Result	RPD
880-25343-1	MW-15-W-230301/ DUP-1-W-230301	m-Xylene & p-Xylene	0.00179 J	0.00168 J	AC
		Xylenes, Total	0.00179 J	0.00168 J	AC
	MW-34-W-230301/ DUP-2-W-230301	Benzene	0.00200 U	0.00355	AC
		o-Xylene	0.00161 J	0.000901 J	AC
		Xylenes, Total	0.00161 J	0.000901 J	AC

Note:

AC – Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

7. System Performance and Overall Assessment

SDGs# 880-25343-1, 880-25396-1 and 880-25433-1: Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8021B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Gas Chromatography/Mass Spectrometry (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
C. Trip blanks	X				X
Laboratory Control Sample (LCS) %R		X	X		
Laboratory Control Sample Duplicate (LCSD) %R		X	X		
LCS/LCSD Precision (RPD)		X	X		
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X	X		
Dilution Factor		X		X	

Notes:
%R - Percent recovery
RPD - Relative percent difference

Total Petroleum Hydrocarbons Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
TPH by SW-846 8015 B(NM)	Water	14 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

SDGs# 880-25343-1, 880-25396-1 and 880-25433-1: All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

SDGs# 880-25343-1, 880-25396-1 and 880-25433-1: Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. The analysis requires surrogate compounds exhibit recoveries within the laboratory-established acceptance limits.
SDGs# 880-25343-1 and 880-25433-1: All surrogate recoveries were within control limits.
SDG# 880-25396-1: Sample locations associated with surrogates exhibiting recoveries outside of the control limits presented in the following table.

SDG	Sample ID	Surrogate	Recovery
880-25396-1	MWD-7-W-230302	1-Chlorooctane o-Terphenyl	> UL
	MWD-8-W-230302	o-Terphenyl	

Note:
UL- Upper control limit

The criteria used to evaluate the surrogate recoveries are presented in the following table. In the case of a surrogate deviation, the sample results associated with the deviant fraction are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	No Action
	Detect	J
< LL but > 10%	Non-detect	UJ

Control Limit	Sample Result	Qualification
	Detect	J
< 10%	Non-detect	R
	Detect	J
Surrogates diluted below the calibration curve due to the high concentration of a target compounds	Non-detect	J

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

SDGs#880-25343-1, 880-25396-1 and 880-25433-1: MS/MSD analysis was not performed on samples from these SDGs.

5. Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

SDGs#880-25343-1, 880-25396-1 and 880-25433-1: All compounds associated with the LCS/LCSD analysis exhibited recoveries within the control limits.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

SDGs# 880-25396-1 and 880-25433-1: Field duplicate sample was not collected for the samples from this SDG.
SDG# 880-25343-1: Results for duplicate samples are summarized in the following table.

SDG	Sample ID/Duplicate ID	Compounds	Sample Result	Duplicate Result	RPD
880-25343-1	MW-15-W-230301/ DUP-1-W-230301	All compounds	U	U	AC
	MW-34-W-230301/ DUP-2-W-230301	Total TPH	0.992 J	2.50 J	AC
		Gasoline Range Organics (GRO)-C6-C10	0.992 J	1.36 J	AC
		Diesel Range Organics (Over C10-C28)	4.98 U	1.14 J	AC
		Oil Range Organics (Over C28-C36)	4.98 U	U	AC

Note:
AC – acceptable
U – non-detect

The calculated RPDs between the parent sample and field duplicate were acceptable.

7. System Performance and Overall Assessment

SDGs# 880-25343-1, 880-25396-1 and 880-25433-1: Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for TPH

TPH: SW-846 8015B (NM)	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY (GC/FID)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X	X		
Dilution Factor		X		X	

Notes:
%R - percent recovery
RPD - relative percent difference

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6020A, 7196A, EPA 300, and SM 2540C. Data were reviewed in accordance with USEPA National Functional Guidelines NFG for Inorganic Superfund Methods Data Review, EPA-540-R-20-006 (November 2020), with reference to the historical (USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-05A-P, October 2004, as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
  - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
  - E The reported value is estimated due to the presence of interference.
  - N Spiked sample recovery is not within control limits.
  - * Duplicate analysis is not within control limits.
- Validation Qualifiers
  - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6020A	Water	180 days from collection to analysis	Preserved to a pH of less than 2.

SDGs#880-25343-1, 880-25396-1 and 880-25433-1: All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

SDGs# 880-25343-1, 880-25396-1 and 880-25433-1: Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

SDG # 880-25343-1: MS/MSD analysis was performed on sample ID MW-15-W-230301, exhibited acceptable recoveries and RPDs.

SDG # 880-25396-1: MS/MSD analysis was performed on sample ID MW-11-W-230303, exhibited acceptable recoveries and RPDs.

SDG# 880-25433-1: MS/MSD analysis was not performed on samples from this SDG.

3.2 Laboratory Duplicate Analysis

The laboratory duplicates relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one time the RL is applied for water matrices and two times the RL for soil matrices.

SDGs# 880-25343-1, 880-25396-1 and 880-25433-1: Laboratory duplicate analysis was not performed on samples from these SDGs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

SDGs# 880-25396-1 and 880-25433-1: Field duplicate sample was not collected for the samples from these SDGs.

SDG# 880-25343-1: Results for duplicate samples are summarized in the following table.

SDGs	Sample ID/Duplicate ID	Analytes	Sample Result (mg/l)	Duplicate Result (mg/l)	RPD
880-25343-1	MW-15-W-230301/ DUP-1-W-230301	Arsenic	0.0121	0.0118	AC
		Barium	0.0463	0.0469	1.3%
		Chromium	U	U	AC
	MW-34-W-230301/ DUP-2-W-230301	Arsenic	0.000939 J	0.00106 J	AC
		Barium	4.69	4.86	3.5%
		Chromium	U	U	AC

Notes:
AC – Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 80% and 120%.

SDGs# 880-25343-1, 880-25396-1 and 880-25433-1: The LCS/LCSD analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

SDGs# 880-25343-1, 880-25396-1 and 880-25433-1: Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metal

METALS; SW-846 6020A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks	X				X
B. Method Blanks		X		X	
C. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Lab Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	
ICP Serial Dilution %D	X				X
Reporting Limit Verification		X		X	

Notes:
%R - Percent recovery
RPD - Relative percent difference
%D - Percent difference

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Hexavalent chromium by SW-846 7196A	Water	24 hours from collection to analysis	Cool to <6 °C.
Chloride by EPA 300.0	Water	28 days from collection to analysis	Cool to <6 °C.
Total Dissolved Solids by SM 2540C	Water	7 days from collection to analysis	Cool to <6 °C.

SDGs# 880-25396-1 and 880-25433: All samples were analyzed within the specified holding times.

SDG# 880-25343-1: The analyses that exceeded the holding time are presented in the following table.

SDG	Sample ID	Analyte	Actual Holding Time	Method Holding Time
880-25343-1	DUP-1-W-230301 DUP-2-W-230301	Hexavalent chromium	>24 hours	24 hours from collection to analysis

Sample results associated with sample locations analysed by analytical method SW-846 7196A were qualified, as specified in the table below. All other holding times were met.

Criteria	Qualification	
	Detected Analytes	Non-detect Analytes
Analysis completed less than two times holding time	J	UJ
Analysis completed greater than two times holding time	J	R

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

SDG# 880-25433-1: Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

SDGs# 880-25343-1 and 880-25396-1: The compound chloride is detected in the associated method blank however, the results were greater than the BAL. Therefore, sample results greater than the BAL resulted in the removal of the laboratory qualifier (B). No other qualification of the sample results was required.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.
SDG # 880-25343-1: MS/MSD analysis was performed on sample MW-35-W-230301, MW-37-W-230301 for chloride, on sample WW-7-W-230301 and MWD-5-W-230301 for hexavalent chromium analysis. MS/MSD analysis exhibited recoveries and RPDs within the control limits.

SDG # 880-25396-1: MS/MSD analysis was performed on sample MWD-12-W-230302, MWD-1-W-230302 for hexavalent chromium MS/MSD analysis exhibited recoveries and RPDs within the control limits.

SDG # 880-25433-1: MS/MSD analysis was performed on sample MW-3-W-230303 and MW-26-W-230303 for chloride and on sample RW-8-W-230303 and MW-26-W-230303 for hexavalent chromium. MS/MSD analysis exhibited recoveries and RPDs within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicates relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one time the RL is applied for water matrices.
SDG# 880-25343-1: A laboratory duplicate analysis was performed on sample MW-15-W-230301, DUP-2-W-230301and MW-16-W-230301 for total dissolved solids. Laboratory duplicate analysis exhibited RPDs within control limits.

SDGs# 880-25396-1 and 880-25433-1: A laboratory duplicate analysis was not performed on samples from this SDGs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

SDGs# 880-25396-1 and 880-25433-1: Field duplicate sample was not collected for the samples from this SDG.

SDG# 880-25343-1: Results for duplicate samples are summarized in the following table.

SDG	Sample ID/Duplicate ID	Analytes	Sample Result (mg/l)	Duplicate Result (mg/l)	RPD
880-25343-1	MW-15-W-230301 / DUP-1-W-230301	Chloride	1440	1400	2.8%
		Total Dissolved Solids	4280	4230	1.2%
		Cr (VI)	U	U	AC
		Chloride	239	242	1.2%

SDG	Sample ID/Duplicate ID	Analytes	Sample Result (mg/l)	Duplicate Result (mg/l)	RPD
	MW-34-W-230301 / DUP-2-W-230301	Total Dissolved Solids	1620	1530	5.7%
		Cr (VI)	U	U	0.9%

Notes:
AC – acceptable
U – non-detect

The calculated RPDs between the parent sample and field duplicate were acceptable.

5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 80% and 120%.

SDGs# 880-25343-1, 880-25396-1 and 880-25433-1: The LCS/LCSD analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

SDGs# 880-25343-1, 880-25396-1 and 880-25433-1: Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SW 7196A, EPA 300.0 and SM 2540C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X	X		
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Lab Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	
Dilution Factor		X		X	

Notes:
%RSD - Relative standard deviation
%R - Percent recovery
RPD - Relative percent difference

DATA REVIEW REPORT

VALIDATION PERFORMED BY: Prashanth K

SIGNATURE:

DATE: December 26, 2023

PEER REVIEW: Dennis Capria

DATE: January 26, 2024

CHAIN OF CUSTODY

CORRECTED SAMPLE ANALYSIS DATA SHEETS

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3/15/2023

Chain of Custody

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Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com

Work Order No: _____

Page 1 of 3

Project Manager:	Rebecca Andresen	Bill to: (if different)	
Company Name:	ARCADIS	Company Name:	
Address:	1004 N Big Spring St.	Address:	
City, State ZIP:	Midland, TX. 79701	City, State ZIP:	
Phone:	303-471-2477	Email:	andrew demarco@arcadis.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: New Mexico
Reporting Level II ☐ Level III ☒ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☒ ADaPT ☐ Other

Project Name:	Eunice Project-N Eunice	Turn Around	
Project Number:	30109021	Routine	☒
P.O. Number:		Rush	
Sampler's Name:	Jerry Longwell/Daniel McGee	Due Date	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C)		Thermometer ID		
Received Intact.	Yes No			
Cooler Custody Seals.	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

880-25343 Chain of Custody

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (SW8015B)	Hex Chrome (SW7196A)	Dissolved Metals (SW6020_DIS) Aresenic, Maganese, Iron & Chromium	TDS (SM2540C)	Chlorides (EPA 300 0)	Sample Comments
MW-15-W-230301	W	03/01/23	0748		8	X	X	X	X	X	X	All Samples Collected In MST
MW-16W-230301	W	03/01/23	0819		8	X	X	X	X	X	X	
MW-36-W-230301	W	03/01/23	0848		8	X	X	X	X	X	X	
MW-35-W-230301	W	03/01/23	0908		8	X	X	X	X	X	X	
MW-34-W-230301	W	03/01/23	0922		8	X	X	X	X	X	X	
MW-6-W-230301	W	03/01/23	0950		8	X	X	X	X	X	X	
MW-10-W-230301	W	03/01/23	1005		8	X	X	X	X	X	X	
MW-9-W-230301	W	03/01/23	1022		8	X	X	X	X	X	X	
MW-7-W-230301	W	03/01/23	1035		8	X	X	X	X	X	X	
MW-2-W-230301	W	03/01/23	1050		8	X	X	X	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			03/01/23 1800	2		
3				4		
5				6		

Revised Date 051418 Rev 2018.1

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Received by OCD: 3/13/2024 8:36:42 PM

Released to Imaging: 4/30/2024 10:08:36 AM

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Chain of Custody

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Hobbs NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com

Work Order No: 25343

Page 2 of 3

Project Manager:	Rebecca Andresen	Bill to: (if different)	
Company Name:	ARCADIS	Company Name:	
Address:	1004 N. Big Spring St.	Address:	
City, State ZIP:	Midland, TX. 79701	City, State ZIP	
Phone:	303-471-2477 Email:	andrew demarco@arcadis com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC Superfund ☐
State of Project: New Mexico
Reporting Level II ☒ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☒ ADaPT ☐ Other

Project Name:	Eunice Project-N Eunice	Turn Around	
Project Number:	30109021	Routine	✓
P.O. Number:		Rush	
Sampler's Name:	Jerry Longwell/Daniel McGee	Due Date	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C)	3.9/3.6	Thermometer ID	IR8	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor	-0.3	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (SW8015B)	Hex Chrome (SW7196A)	Dissolved Metals (SW6020_DIS) Aresenic, Maganese, Iron & Chromium	TDS (SM2540C)	Chlorides (EPA 300 0)
MW-8-W-230301	W	03/01/23	1228		8	X	X	X	X	X	X
MW-25-W-230301	W	03/01/23	1244		8	X	X	X	X	X	X
MW-13-W-230301	W	03/01/23	1303		8	X	X	X	X	X	X
MW-31-W-230301	W	03/01/23	1319		8	X	X	X	X	X	X
MW-14-W-230301	W	03/01/23	1338		8	X	X	X	X	X	X
MW-37-W-230301	W	03/01/23	1403		8	X	X	X	X	X	X
MW-39-W-230301	W	03/01/23	1423		8	X	X	X	X	X	X
MW-32-W-230301	W	03/01/23	1445		8	X	X	X	X	X	X
MWD-5-W-230301	W	03/01/23	1458		8	X	X	X	X	X	X
DUP1-W-230301	W	03/01/23	—		8	X	X	X	X	X	X

Work Order Notes

TAT starts the day recevied by the lab if received by 4.30pm

Sample Comments

All Samples Collected In MST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by. (Signature)	Received by: (Signature)	Date/Time
1		03/01/23 1900	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

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Chain of Custody

XENCO LABORATORIES

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

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Work Order No: _____

Project Manager:	Rebecca Andresen	Bill to: (if different)	
Company Name:	ARCADIS	Company Name:	
Address:	1004 N. Big Spring St.	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP	
Phone:	303-471-2477 Email	andrew.demarco@arcadis.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: New Mexico
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☒ ADaPT ☐ Other

Project Name:	Eunice Project-N Eunice	Turn Around	
Project Number:	30109021	Routine	☒
P.O. Number:		Rush	
Sampler's Name:	Jerry Longwell/Daniel McGee	Due Date	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C)		Thermometer ID		
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (SW8015B)	Hex Chrome (SW7196A)	Dissolved Metals (SW6020_DIS): Aresenic, Maganese, Iron & Chromium	TDS (SM2540C)	Chlorides (EPA 300 0)
DUP-2.W-230301	W	03/01/23	—		8	X	X	X	X	X	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab if received by 4.30pm

Sample Comments

All Samples Collected Filtered MSF

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by (Signature)	Received by: (Signature)	Date/Time
1			03/01/23 1950	2		
3				4		
5				6		

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Received by OCD: 3/13/2024 8:36:42 PM

Released to Imaging: 4/30/2024 10:08:36 AM

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
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.
¤	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)

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-15-W-230301 **Lab Sample ID: 880-25343-1**
Date Collected: 03/01/23 07:48 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	~~U *1~~ UJ	0.00200	0.000408	mg/L			03/15/23 05:30	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 05:30	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 05:30	1
m-Xylene & p-Xylene	**0.00179**	**J**	0.00400	0.000629	mg/L			03/15/23 05:30	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 05:30	1
Xylenes, Total	**0.00179**	**J**	0.00400	0.000642	mg/L			03/15/23 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*03/15/23 05:30*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*		*03/15/23 05:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00179**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.941	U	4.76	0.941	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.941	U	4.76	0.941	mg/L		03/09/23 15:58	03/10/23 18:48	1
Diesel Range Organics (Over C10-C28)	<0.941	U	4.76	0.941	mg/L		03/09/23 15:58	03/10/23 18:48	1
OII Range Organics (Over C28-C36)	<0.908	U	4.76	0.908	mg/L		03/09/23 15:58	03/10/23 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 15:58*	*03/10/23 18:48*	*1*
o-Terphenyl	*110*		*70 - 135*	*03/09/23 15:58*	*03/10/23 18:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1440**	~~B~~	5.00	2.00	mg/L			03/09/23 06:09	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0121**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 22:35	1
Barium	**0.0463**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 22:35	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 22:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4280**		40.0	40.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-16-W-230301 **Lab Sample ID: 880-25343-2**
Date Collected: 03/01/23 08:19 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	~~U *1~~ UJ	0.00200	0.000408	mg/L			03/15/23 05:57	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 05:57	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 05:57	1
m-Xylene & p-Xylene	**0.00160**	**J**	0.00400	0.000629	mg/L			03/15/23 05:57	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 05:57	1
Xylenes, Total	**0.00160**	**J**	0.00400	0.000642	mg/L			03/15/23 05:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*03/15/23 05:57*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*		*03/15/23 05:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00160**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.915	U	4.63	0.915	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.915	U	4.63	0.915	mg/L		03/09/23 15:58	03/10/23 19:08	1
Diesel Range Organics (Over C10-C28)	<0.915	U	4.63	0.915	mg/L		03/09/23 15:58	03/10/23 19:08	1
OII Range Organics (Over C28-C36)	<0.883	U	4.63	0.883	mg/L		03/09/23 15:58	03/10/23 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 135*	*03/09/23 15:58*	*03/10/23 19:08*	*1*
o-Terphenyl	*110*		*70 - 135*	*03/09/23 15:58*	*03/10/23 19:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1790**	~~B~~	5.00	2.00	mg/L			03/09/23 06:33	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0129**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 22:56	1
Barium	**0.0478**	**J**	0.0800	0.0268	mg/L		03/07/23 08:30	03/07/23 23:50	20
Chromium	**0.0979**		0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 22:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4840**		40.0	40.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.0843**		0.0100	0.00270	mg/L			03/02/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-36-W-230301 Lab Sample ID: 880-25343-3

Date Collected: 03/01/23 08:48 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	~~U *1~~ UJ	0.00200	0.000408	mg/L			03/15/23 06:23	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 06:23	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 06:23	1
m-Xylene & p-Xylene	**0.00159**	**J**	0.00400	0.000629	mg/L			03/15/23 06:23	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 06:23	1
Xylenes, Total	**0.00159**	**J**	0.00400	0.000642	mg/L			03/15/23 06:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*03/15/23 06:23*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*		*03/15/23 06:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00159**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.950	U	4.81	0.950	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.950	U	4.81	0.950	mg/L		03/09/23 15:58	03/10/23 19:28	1
Diesel Range Organics (Over C10-C28)	<0.950	U	4.81	0.950	mg/L		03/09/23 15:58	03/10/23 19:28	1
OII Range Organics (Over C28-C36)	<0.917	U	4.81	0.917	mg/L		03/09/23 15:58	03/10/23 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 135*	*03/09/23 15:58*	*03/10/23 19:28*	*1*
o-Terphenyl	*107*		*70 - 135*	*03/09/23 15:58*	*03/10/23 19:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**434**	~~B~~	0.500	0.200	mg/L			03/09/23 06:44	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00903**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 22:59	1
Barium	**0.119**		0.0800	0.0268	mg/L		03/07/23 08:30	03/07/23 23:52	20
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 22:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1310**		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-35-W-230301 **Lab Sample ID: 880-25343-4**
Date Collected: 03/01/23 09:08 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	~~U *1~~ UJ	0.00200	0.000408	mg/L			03/15/23 06:48	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 06:48	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 06:48	1
m-Xylene & p-Xylene	**0.00160**	**J**	0.00400	0.000629	mg/L			03/15/23 06:48	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 06:48	1
Xylenes, Total	**0.00160**	**J**	0.00400	0.000642	mg/L			03/15/23 06:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*03/15/23 06:48*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*		*03/15/23 06:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00160**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.893	U	4.52	0.893	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.893	U	4.52	0.893	mg/L		03/09/23 15:58	03/10/23 19:48	1
Diesel Range Organics (Over C10-C28)	<0.893	U	4.52	0.893	mg/L		03/09/23 15:58	03/10/23 19:48	1
OII Range Organics (Over C28-C36)	<0.862	U	4.52	0.862	mg/L		03/09/23 15:58	03/10/23 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 15:58*	*03/10/23 19:48*	*1*
o-Terphenyl	*113*		*70 - 135*	*03/09/23 15:58*	*03/10/23 19:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**139**	~~B~~	0.500	0.200	mg/L			03/09/23 03:22	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00901**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:01	1
Barium	**0.106**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 23:01	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**934**		10.0	10.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-34-W-230301 Lab Sample ID: 880-25343-5

Date Collected: 03/01/23 09:22 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	~~U *1~~ UJ	0.00200	0.000408	mg/L			03/15/23 07:15	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 07:15	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 07:15	1
m-Xylene & p-Xylene	**0.00161**	**J**	0.00400	0.000629	mg/L			03/15/23 07:15	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 07:15	1
Xylenes, Total	**0.00161**	**J**	0.00400	0.000642	mg/L			03/15/23 07:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/15/23 07:15*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*		*03/15/23 07:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00161**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**0.992**	**J**	4.98	0.985	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**0.992**	**J**	4.98	0.985	mg/L		03/09/23 15:58	03/10/23 20:07	1
Diesel Range Organics (Over C10-C28)	<0.985	U	4.98	0.985	mg/L		03/09/23 15:58	03/10/23 20:07	1
OII Range Organics (Over C28-C36)	<0.950	U	4.98	0.950	mg/L		03/09/23 15:58	03/10/23 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 135*	*03/09/23 15:58*	*03/10/23 20:07*	*1*
o-Terphenyl	*89*		*70 - 135*	*03/09/23 15:58*	*03/10/23 20:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**239**	~~B~~	0.500	0.200	mg/L			03/09/23 07:32	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000939**	**J**	0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:03	1
Barium	**4.69**		0.0800	0.0268	mg/L		03/07/23 08:30	03/08/23 13:03	20
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1620**		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-6-W-230301 Lab Sample ID: 880-25343-6

Date Collected: 03/01/23 09:50 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00115**	**J**	0.00200	0.000408	mg/L			03/15/23 07:42	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 07:42	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 07:42	1
m-Xylene & p-Xylene	**0.00159**	**J**	0.00400	0.000629	mg/L			03/15/23 07:42	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 07:42	1
Xylenes, Total	**0.00159**	**J**	0.00400	0.000642	mg/L			03/15/23 07:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*03/15/23 07:42*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*		*03/15/23 07:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00274**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.923	U	4.67	0.923	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.923	U	4.67	0.923	mg/L		03/09/23 15:58	03/10/23 20:47	1
Diesel Range Organics (Over C10-C28)	<0.923	U	4.67	0.923	mg/L		03/09/23 15:58	03/10/23 20:47	1
OII Range Organics (Over C28-C36)	<0.891	U	4.67	0.891	mg/L		03/09/23 15:58	03/10/23 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 15:58*	*03/10/23 20:47*	*1*
o-Terphenyl	*116*		*70 - 135*	*03/09/23 15:58*	*03/10/23 20:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**	**B**	0.500	0.200	mg/L			03/09/23 03:58	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00255**	**J**	0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:06	1
Barium	**0.832**		0.0400	0.0134	mg/L		03/07/23 08:30	03/08/23 13:08	10
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1170**		10.0	10.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-30-W-230301 **Lab Sample ID: 880-25343-7**
Date Collected: 03/01/23 10:05 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	~~U *1~~ UJ	0.00200	0.000408	mg/L			03/15/23 08:09	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 08:09	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 08:09	1
m-Xylene & p-Xylene	**0.00159**	**J**	0.00400	0.000629	mg/L			03/15/23 08:09	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 08:09	1
Xylenes, Total	**0.00159**	**J**	0.00400	0.000642	mg/L			03/15/23 08:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*03/15/23 08:09*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*		*03/15/23 08:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00159**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.859	U	4.35	0.859	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.859	U	4.35	0.859	mg/L		03/09/23 15:58	03/10/23 21:06	1
Diesel Range Organics (Over C10-C28)	<0.859	U	4.35	0.859	mg/L		03/09/23 15:58	03/10/23 21:06	1
OII Range Organics (Over C28-C36)	<0.829	U	4.35	0.829	mg/L		03/09/23 15:58	03/10/23 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 15:58*	*03/10/23 21:06*	*1*
o-Terphenyl	*110*		*70 - 135*	*03/09/23 15:58*	*03/10/23 21:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**276**	~~B~~	0.500	0.200	mg/L			03/09/23 04:10	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00830**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:08	1
Barium	**0.328**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 23:08	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1320**		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-9-W-230301 **Lab Sample ID: 880-25343-8**
Date Collected: 03/01/23 10:22 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte		Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	R	~~<0.000408~~	~~U *1~~	~~0.00200~~	~~0.000408~~	~~mg/L~~			~~03/15/23 08:41~~	~~1~~
Toluene		~~<0.000367~~	~~U~~	~~0.00200~~	~~0.000367~~	~~mg/L~~			~~03/15/23 08:41~~	~~1~~
Ethylbenzene		~~<0.000657~~	~~U~~	~~0.00200~~	~~0.000657~~	~~mg/L~~			~~03/15/23 08:41~~	~~1~~
m-Xylene & p-Xylene		**0.00159**	**J**	0.00400	0.000629	mg/L			03/15/23 08:41	1
o-Xylene	R	~~<0.000642~~	~~U~~	~~0.00200~~	~~0.000642~~	~~mg/L~~			~~03/15/23 08:41~~	~~1~~
Xylenes, Total		**0.00159**	**J**	0.00400	0.000642	mg/L			03/15/23 08:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*03/15/23 08:41*	*1*
1,4-Difluorobenzene (Surr)	*8*	*S1-*	*70 - 130*		*03/15/23 08:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00159**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1.05**	**J**	4.69	0.926	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.05**	**J**	4.69	0.926	mg/L		03/09/23 15:58	03/10/23 21:26	1
Diesel Range Organics (Over C10-C28)	<0.926	U	4.69	0.926	mg/L		03/09/23 15:58	03/10/23 21:26	1
OII Range Organics (Over C28-C36)	<0.894	U	4.69	0.894	mg/L		03/09/23 15:58	03/10/23 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 135*	*03/09/23 15:58*	*03/10/23 21:26*	*1*
o-Terphenyl	*106*		*70 - 135*	*03/09/23 15:58*	*03/10/23 21:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**165**	**B**	0.500	0.200	mg/L			03/09/23 04:22	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0107**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:10	1
Barium	**8.89**		0.400	0.134	mg/L		03/07/23 08:30	03/08/23 13:10	100
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1140**		10.0	10.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: WW-7-W-230301 Lab Sample ID: 880-25343-9

Date Collected: 03/01/23 10:35 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1 UJ	0.00200	0.000408	mg/L			03/15/23 09:11	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 09:11	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 09:11	1
m-Xylene & p-Xylene	**0.00160**	**J**	0.00400	0.000629	mg/L			03/15/23 09:11	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 09:11	1
Xylenes, Total	**0.00160**	**J**	0.00400	0.000642	mg/L			03/15/23 09:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/15/23 09:11*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*03/15/23 09:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00160**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.895	U	4.53	0.895	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.895	U	4.53	0.895	mg/L		03/09/23 15:58	03/10/23 21:46	1
Diesel Range Organics (Over C10-C28)	<0.895	U	4.53	0.895	mg/L		03/09/23 15:58	03/10/23 21:46	1
OII Range Organics (Over C28-C36)	<0.864	U	4.53	0.864	mg/L		03/09/23 15:58	03/10/23 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 135*	*03/09/23 15:58*	*03/10/23 21:46*	*1*
o-Terphenyl	*114*		*70 - 135*	*03/09/23 15:58*	*03/10/23 21:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**252**	**B**	0.500	0.200	mg/L			03/09/23 04:34	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000764**	**J**	0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:13	1
Barium	**0.641**		0.0400	0.0134	mg/L		03/07/23 08:30	03/08/23 13:22	10
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**715**		10.0	10.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: WW-2-W-230301 Lab Sample ID: 880-25343-10

Date Collected: 03/01/23 10:50 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	~~U *1~~ UJ	0.00200	0.000408	mg/L			03/15/23 09:37	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 09:37	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 09:37	1
m-Xylene & p-Xylene	**0.00159**	**J**	0.00400	0.000629	mg/L			03/15/23 09:37	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 09:37	1
Xylenes, Total	**0.00159**	**J**	0.00400	0.000642	mg/L			03/15/23 09:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/15/23 09:37*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*		*03/15/23 09:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00159**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.877	U	4.44	0.877	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.877	U	4.44	0.877	mg/L		03/09/23 15:58	03/10/23 22:05	1
Diesel Range Organics (Over C10-C28)	<0.877	U	4.44	0.877	mg/L		03/09/23 15:58	03/10/23 22:05	1
OII Range Organics (Over C28-C36)	<0.846	U	4.44	0.846	mg/L		03/09/23 15:58	03/10/23 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 135*	*03/09/23 15:58*	*03/10/23 22:05*	*1*
o-Terphenyl	*111*		*70 - 135*	*03/09/23 15:58*	*03/10/23 22:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**721**	~~B~~	5.00	2.00	mg/L			03/09/23 08:08	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00137**	**J**	0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:15	1
Barium	**3.64**		0.0800	0.0268	mg/L		03/07/23 08:30	03/08/23 13:24	20
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1390**		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-8-W-230301
Lab Sample ID: 880-25343-11
Date Collected: 03/01/23 12:28
Matrix: Water
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000435**	**J**	0.00200	0.000408	mg/L			03/15/23 12:52	1
Toluene	**0.000637**	**J**	0.00200	0.000367	mg/L			03/15/23 12:52	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 12:52	1
m-Xylene & p-Xylene	**0.000744**	**J**	0.00400	0.000629	mg/L			03/15/23 12:52	1
o-Xylene	<0.000642	U *	0.00200	0.000642	mg/L			03/15/23 12:52	1
Xylenes, Total	**0.000744**	**J**	0.00400	0.000642	mg/L			03/15/23 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*03/15/23 12:52*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*		*03/15/23 12:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00182**	**J**	0.00400	0.000657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.862	U	4.36	0.862	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.862	U	4.36	0.862	mg/L		03/09/23 15:58	03/10/23 22:25	1
Diesel Range Organics (Over C10-C28)	<0.862	U	4.36	0.862	mg/L		03/09/23 15:58	03/10/23 22:25	1
OII Range Organics (Over C28-C36)	<0.832	U	4.36	0.832	mg/L		03/09/23 15:58	03/10/23 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 135*	*03/09/23 15:58*	*03/10/23 22:25*	*1*
o-Terphenyl	*101*		*70 - 135*	*03/09/23 15:58*	*03/10/23 22:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**776**	**B**	5.00	2.00	mg/L			03/09/23 08:32	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0327**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:22	1
Barium	**0.0803**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 23:22	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**2560**		40.0	40.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-29-W-230301 Lab Sample ID: 880-25343-12

Date Collected: 03/01/23 12:44 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0432		0.00200	0.000408	mg/L			03/15/23 13:12	1
Toluene	0.000396	J	0.00200	0.000367	mg/L			03/15/23 13:12	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 13:12	1
m-Xylene & p-Xylene	0.000711	J	0.00400	0.000629	mg/L			03/15/23 13:12	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 13:12	1
Xylenes, Total	0.000711	J	0.00400	0.000642	mg/L			03/15/23 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*03/15/23 13:12*	*1*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*		*03/15/23 13:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0443		0.00400	0.000657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3.54	J	4.92	0.972	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3.54	J	4.92	0.972	mg/L		03/09/23 15:58	03/10/23 22:44	1
Diesel Range Organics (Over C10-C28)	<0.972	U	4.92	0.972	mg/L		03/09/23 15:58	03/10/23 22:44	1
OII Range Organics (Over C28-C36)	<0.938	U	4.92	0.938	mg/L		03/09/23 15:58	03/10/23 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 15:58*	*03/10/23 22:44*	*1*
o-Terphenyl	*99*		*70 - 135*	*03/09/23 15:58*	*03/10/23 22:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	312	B	0.500	0.200	mg/L			03/09/23 08:44	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00262	J	0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:24	1
Barium	8.61		0.400	0.134	mg/L		03/07/23 08:30	03/08/23 13:29	100
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1370		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-13-W-230301
Lab Sample ID: 880-25343-13
Date Collected: 03/01/23 13:03
Matrix: Water
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000436**	**J**	0.00200	0.000408	mg/L			03/15/23 13:33	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 13:33	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 13:33	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 13:33	1
o-Xylene	<0.000642	U *	0.00200	0.000642	mg/L			03/15/23 13:33	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*		*03/15/23 13:33*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*		*03/15/23 13:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.895	U	4.53	0.895	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.895	U	4.53	0.895	mg/L		03/09/23 15:58	03/10/23 23:04	1
Diesel Range Organics (Over C10-C28)	<0.895	U	4.53	0.895	mg/L		03/09/23 15:58	03/10/23 23:04	1
OII Range Organics (Over C28-C36)	<0.864	U	4.53	0.864	mg/L		03/09/23 15:58	03/10/23 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 135*	*03/09/23 15:58*	*03/10/23 23:04*	*1*
o-Terphenyl	*99*		*70 - 135*	*03/09/23 15:58*	*03/10/23 23:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**325**	**B**	0.500	0.200	mg/L			03/09/23 05:09	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0159**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:26	1
Barium	**0.115**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 23:26	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1120**		10.0	10.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-31-W-230301 Lab Sample ID: 880-25343-14

Date Collected: 03/01/23 13:19 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000622**	**J**	0.00200	0.000408	mg/L			03/15/23 13:53	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 13:53	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 13:53	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 13:53	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			03/15/23 13:53	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*03/15/23 13:53*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*		*03/15/23 13:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.857	U	4.34	0.857	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.857	U	4.34	0.857	mg/L		03/09/23 15:58	03/10/23 23:23	1
Diesel Range Organics (Over C10-C28)	<0.857	U	4.34	0.857	mg/L		03/09/23 15:58	03/10/23 23:23	1
OII Range Organics (Over C28-C36)	<0.827	U	4.34	0.827	mg/L		03/09/23 15:58	03/10/23 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 135*	*03/09/23 15:58*	*03/10/23 23:23*	*1*
o-Terphenyl	*102*		*70 - 135*	*03/09/23 15:58*	*03/10/23 23:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**442**	**B**	0.500	0.200	mg/L			03/09/23 10:43	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0524**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:29	1
Barium	**0.347**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 23:29	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1590**		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-14-W-230301
Lab Sample ID: 880-25343-15
Date Collected: 03/01/23 13:38
Matrix: Water
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 14:14	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 14:14	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 14:14	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 14:14	1
o-Xylene	<0.000642	U *	0.00200	0.000642	mg/L			03/15/23 14:14	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*03/15/23 14:14*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*		*03/15/23 14:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.844	U	4.27	0.844	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.844	U	4.27	0.844	mg/L		03/09/23 15:58	03/10/23 23:43	1
Diesel Range Organics (Over C10-C28)	<0.844	U	4.27	0.844	mg/L		03/09/23 15:58	03/10/23 23:43	1
OII Range Organics (Over C28-C36)	<0.815	U	4.27	0.815	mg/L		03/09/23 15:58	03/10/23 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 15:58*	*03/10/23 23:43*	*1*
o-Terphenyl	*106*		*70 - 135*	*03/09/23 15:58*	*03/10/23 23:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**468**	B	0.500	0.200	mg/L			03/09/23 11:30	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0102**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:31	1
Barium	**0.104**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 23:31	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1710**		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-37-W-230301
Lab Sample ID: 880-25343-16
Date Collected: 03/01/23 14:03
Matrix: Water
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 14:34	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 14:34	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 14:34	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 14:34	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 14:34	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/15/23 14:34*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*		*03/15/23 14:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.956	U	4.84	0.956	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.956	U	4.84	0.956	mg/L		03/09/23 15:58	03/11/23 00:22	1
Diesel Range Organics (Over C10-C28)	<0.956	U	4.84	0.956	mg/L		03/09/23 15:58	03/11/23 00:22	1
OII Range Organics (Over C28-C36)	<0.923	U	4.84	0.923	mg/L		03/09/23 15:58	03/11/23 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 135*	*03/09/23 15:58*	*03/11/23 00:22*	*1*
o-Terphenyl	*101*		*70 - 135*	*03/09/23 15:58*	*03/11/23 00:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**326**	**B**	0.500	0.200	mg/L			03/09/23 05:21	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00864**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:33	1
Barium	**0.615**		0.0400	0.0134	mg/L		03/07/23 08:30	03/08/23 13:34	10
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1140**		10.0	10.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-38-W-230301
Lab Sample ID: 880-25343-17
Date Collected: 03/01/23 14:23
Matrix: Water
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 14:55	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 14:55	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 14:55	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 14:55	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 14:55	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*03/15/23 14:55*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*		*03/15/23 14:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.975	U	4.93	0.975	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.975	U	4.93	0.975	mg/L		03/09/23 15:58	03/11/23 00:42	1
Diesel Range Organics (Over C10-C28)	<0.975	U	4.93	0.975	mg/L		03/09/23 15:58	03/11/23 00:42	1
OII Range Organics (Over C28-C36)	<0.941	U	4.93	0.941	mg/L		03/09/23 15:58	03/11/23 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 135*	*03/09/23 15:58*	*03/11/23 00:42*	*1*
o-Terphenyl	*104*		*70 - 135*	*03/09/23 15:58*	*03/11/23 00:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1030**	B	5.00	2.00	mg/L			03/09/23 12:06	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00699**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:36	1
Barium	**0.0948**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 23:36	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**2730**		40.0	40.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-32-W-230301 **Lab Sample ID: 880-25343-18**
Date Collected: 03/01/23 14:45 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.400		0.00200	0.000408	mg/L			03/15/23 15:15	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 15:15	1
Ethylbenzene	0.000798	J	0.00200	0.000657	mg/L			03/15/23 15:15	1
m-Xylene & p-Xylene	0.00171	J	0.00400	0.000629	mg/L			03/15/23 15:15	1
o-Xylene	0.00155	J	0.00200	0.000642	mg/L			03/15/23 15:15	1
Xylenes, Total	0.00326	J	0.00400	0.000642	mg/L			03/15/23 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*03/15/23 15:15*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*		*03/15/23 15:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.404		0.00400	0.000657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.58	J	4.62	0.912	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.58	J	4.62	0.912	mg/L		03/09/23 15:58	03/11/23 01:01	1
Diesel Range Organics (Over C10-C28)	<0.912	U	4.62	0.912	mg/L		03/09/23 15:58	03/11/23 01:01	1
OII Range Organics (Over C28-C36)	<0.880	U	4.62	0.880	mg/L		03/09/23 15:58	03/11/23 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 135*	*03/09/23 15:58*	*03/11/23 01:01*	*1*
o-Terphenyl	*103*		*70 - 135*	*03/09/23 15:58*	*03/11/23 01:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	869	B	5.00	2.00	mg/L			03/09/23 12:30	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0529		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:38	1
Barium	2.71		0.0800	0.0268	mg/L		03/07/23 08:30	03/08/23 13:36	20
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	2940		40.0	40.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-5-W-230301 Lab Sample ID: 880-25343-19

Date Collected: 03/01/23 14:58 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.35**		0.0200	0.00408	mg/L			03/15/23 15:36	10
Toluene	<0.00367	U	0.0200	0.00367	mg/L			03/15/23 15:36	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			03/15/23 15:36	10
m-Xylene & p-Xylene	<0.00629	U	0.0400	0.00629	mg/L			03/15/23 15:36	10
o-Xylene	<0.00642	U *	0.0200	0.00642	mg/L			03/15/23 15:36	10
Xylenes, Total	<0.00642	U	0.0400	0.00642	mg/L			03/15/23 15:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*03/15/23 15:36*	*10*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*		*03/15/23 15:36*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**3.35**		0.0400	0.00657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**12.9**		4.90	0.969	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**8.89**		4.90	0.969	mg/L		03/09/23 15:58	03/11/23 01:21	1
Diesel Range Organics (Over C10-C28)	**4.00**	**J**	4.90	0.969	mg/L		03/09/23 15:58	03/11/23 01:21	1
Oil Range Organics (Over C28-C36)	<0.935	U	4.90	0.935	mg/L		03/09/23 15:58	03/11/23 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 15:58*	*03/11/23 01:21*	*1*
o-Terphenyl	*94*		*70 - 135*	*03/09/23 15:58*	*03/11/23 01:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**573**	**B**	5.00	2.00	mg/L			03/09/23 12:54	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0129**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:40	1
Barium	**8.06**		0.400	0.134	mg/L		03/07/23 08:30	03/08/23 13:39	100
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**2180**		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 09:00	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: DUP-1-W-230301 Lab Sample ID: 880-25343-20

Date Collected: 03/01/23 00:00 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	~~U *1~~ UJ	0.00200	0.000408	mg/L			03/15/23 11:22	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 11:22	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 11:22	1
m-Xylene & p-Xylene	**0.00168**	**J**	0.00400	0.000629	mg/L			03/15/23 11:22	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 11:22	1
Xylenes, Total	**0.00168**	**J**	0.00400	0.000642	mg/L			03/15/23 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*03/15/23 11:22*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*		*03/15/23 11:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00168**	**J**	0.00400	0.000657	mg/L			03/15/23 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.912	U	4.62	0.912	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.912	U	4.62	0.912	mg/L		03/07/23 15:08	03/07/23 20:39	1
Diesel Range Organics (Over C10-C28)	<0.912	U	4.62	0.912	mg/L		03/07/23 15:08	03/07/23 20:39	1
OII Range Organics (Over C28-C36)	<0.880	U	4.62	0.880	mg/L		03/07/23 15:08	03/07/23 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 135*	*03/07/23 15:08*	*03/07/23 20:39*	*1*
o-Terphenyl	*99*		*70 - 135*	*03/07/23 15:08*	*03/07/23 20:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1400**	**~~B~~**	5.00	2.00	mg/L			03/09/23 13:17	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0118**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:43	1
Barium	**0.0469**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 23:43	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4230**		40.0	40.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	~~U H~~ UJ	0.0100	0.00270	mg/L			03/02/23 09:00	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: DUP-2-W-230301 Lab Sample ID: 880-25343-21

Date Collected: 03/01/23 00:00 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00355**	~~F1~~ J	0.00200	0.000408	mg/L			03/15/23 05:51	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 05:51	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 05:51	1
m-Xylene & p-Xylene	<0.000629	U ~~F1~~	0.00400	0.000629	mg/L			03/15/23 05:51	1
o-Xylene	**0.000901**	**J ~~F1~~ *+**	0.00200	0.000642	mg/L			03/15/23 05:51	1
Xylenes, Total	**0.000901**	**J ~~F1~~**	0.00400	0.000642	mg/L			03/15/23 05:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*03/15/23 05:51*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*		*03/15/23 05:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00445**		0.00400	0.000657	mg/L			03/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2.50**	**J**	4.56	0.901	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.36**	**J**	4.56	0.901	mg/L		03/07/23 15:08	03/07/23 20:58	1
Diesel Range Organics (Over C10-C28)	**1.14**	**J**	4.56	0.901	mg/L		03/07/23 15:08	03/07/23 20:58	1
OII Range Organics (Over C28-C36)	<0.869	U	4.56	0.869	mg/L		03/07/23 15:08	03/07/23 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 135*	*03/07/23 15:08*	*03/07/23 20:58*	*1*
o-Terphenyl	*114*		*70 - 135*	*03/07/23 15:08*	*03/07/23 20:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**242**	**~~B~~**	0.500	0.200	mg/L			03/09/23 20:08	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00106**	**J**	0.00400	0.000290	mg/L		03/07/23 10:00	03/07/23 21:05	1
Barium	**4.86**		0.200	0.0671	mg/L		03/07/23 10:00	03/08/23 12:58	50
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 10:00	03/07/23 21:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1530**		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U ~~H~~ UJ	0.0100	0.00270	mg/L			03/02/23 09:00	1

Eurofins Midland

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Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio,TX (210) 509-3334
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Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com

Work Order No: 25396

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Project Manager:	Rebecca Andresen	Bill to: (if different)	
Company Name:	ARCADIS	Company Name:	
Address:	1004 N. Big Spring St	Address:	
City, State ZIP	Midland, TX 79701	City, State ZIP:	
Phone:	303-471-3477 Email:	andrew demarco@arcadis com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: New Mexico
Reporting Level II ☐ Level III ☒ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☒ ADaPT ☐ Other:

Project Name:	Eunice Project- S. Eunice	Turn Around	
Project Number:	30049612	Routine	☒
P.O. Number:		Rush	
Sampler's Name:	Jerry Longwell/Daniel McGee	Due Date	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C)	23/20	Thermometer ID	IR8	
Received Intact:	(Yes) No			
Cooler Custody Seals.	Yes No (N/A)	Correction Factor	0.3	
Sample Custody Seals.	Yes No (N/A)	Total Containers.		

880-25396 Chain of Custody

TAT starts the day recevied by the lab if received by 4 30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (SW8015B)	Hex Chrome (SW7196A)	Dissolved Metals (SW6020_DIS): Chromium, Arsenic & Barium)	TDS (SM2540C)	Chlorides (EPA 300.0)	Sample Comments
MWD-12-W-230302	W	03/02/23	0751		8	X	X	X	X	X	X	
MWD-4-W-230302	W	03/02/23	0811		8	X	X	X	X	X	X	
MWD-15-W-230302	W	03/02/23	0827		8	X	X	X	X	X	X	
RW-4-W-230302	W	03/02/23	0848		8	X	X	X	X	X	X	
RW-7-W-230302	W	03/02/23	0904		8	X	X	X	X	X	X	
MWD-17-W-230302	W	03/02/23	0820		8	X	X	X	X	X	X	
MW-22-W-230302	W	03/02/23	0532		8	X	X	X	X	X	X	
MWD-3-W-230302	W	03/02/23	0844		8	X	X	X	X	X	X	
MWD-7-W-230302	W	03/02/23	0857		8	X	X	X	X	X	X	
MW-17-W-230302	W	03/02/23	1019		8	X	X	X	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		03/02/23 1612	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

Received by OCD: 3/13/2024 8:36:42 PM

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Released to Imaging: 4/30/2024 10:08:36 AM

3/15/2023

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Chain of Custody

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Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager	Rebecca Andresen	Bill to: (if different)	
Company Name	ARCADIS	Company Name.	
Address.	1004 N. Big Spring St.	Address.	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone.	303-471-3477	Email:	andrew.demarco@arcadis.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: New Mexico
Reporting Level II [X] Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD [X] ADaPT ☐ Other

Project Name.	Eunice Project- S Eunice	Turn Around	
Project Number	30049612	Routine	☒
P.O. Number		Rush	
Sampler's Name	Jerry Longwell/Daniel McGee	Due Date	

SAMPLE RECEIPT				
Temp Blank.	Yes No	Wet Ice:	Yes No	
Temperature (°C)		Thermometer ID		
Received Intact:	Yes No			
Cooler Custody Seals.	Yes No N/A	Correction Factor		
Sample Custody Seals.	Yes No N/A	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (SW8015B)	Hex Chrome (SW7196A)	Dissolved Metals (SW6020_DIS) Chromium, Arsenic & Barium)	TDS (SM2540C)	Chlorides (EPA 300.0)
MWD-1-W-230302	W	03/02/23	1029		8	X	X	X	X	X	X
MWD-8-W-230302	W	03/02/23	1048		8	X	X	X	X	X	X
MWD-7-W-230302	W	03/02/23	1224		8	X	X	X	X	X	X
MW-4-W-230302	W	03/02/23	1243		8	X	X	X	X	X	X

Work Order Notes

TAT starts the day recevied by the lab, if received by 4 30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		03/02/23	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

Received by OCD: 3/13/2024 8:36:42 PM

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3/15/2023

Released to Imaging: 4/30/2024 10:08:36 AM

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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.
¤	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

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-12-W-230302 **Lab Sample ID: 880-25396-1**
Date Collected: 03/02/23 07:51 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0140	*- *1 J	0.00200	0.000408	mg/L			03/03/23 17:02	1
Toluene	0.000451	J *- *1	0.00200	0.000367	mg/L			03/03/23 17:02	1
Ethylbenzene	0.0482	*- *1	0.00200	0.000657	mg/L			03/03/23 17:02	1
m-Xylene & p-Xylene	0.00529	*- *+ *1	0.00400	0.000629	mg/L			03/03/23 17:02	1
o-Xylene	0.00527	*- *+ *1	0.00200	0.000642	mg/L			03/03/23 17:02	1
Xylenes, Total	0.0106	*- *+ *1	0.00400	0.000642	mg/L			03/03/23 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*		*03/03/23 17:02*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*		*03/03/23 17:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0732		0.00400	0.000657	mg/L			03/06/23 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2.63	J	4.48	0.885	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.927	J	4.48	0.885	mg/L		03/07/23 15:08	03/07/23 21:18	1
Diesel Range Organics (Over C10-C28)	1.70	J	4.48	0.885	mg/L		03/07/23 15:08	03/07/23 21:18	1
OII Range Organics (Over C28-C36)	<0.854	U	4.48	0.854	mg/L		03/07/23 15:08	03/07/23 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 135*	*03/07/23 15:08*	*03/07/23 21:18*	*1*
o-Terphenyl	*108*		*70 - 135*	*03/07/23 15:08*	*03/07/23 21:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1770	B	5.00	2.00	mg/L			03/09/23 22:55	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0416		0.0200	0.00145	mg/L		03/06/23 08:30	03/07/23 18:22	5
Barium	0.320		0.0400	0.0134	mg/L		03/06/23 08:30	03/08/23 17:25	10
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 08:30	03/07/23 18:22	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	4560		40.0	40.0	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-4-W-230302 Lab Sample ID: 880-25396-2

Date Collected: 03/02/23 08:11 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1 UJ	0.00200	0.000408	mg/L			03/03/23 17:23	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			03/03/23 17:23	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			03/03/23 17:23	1
m-Xylene & p-Xylene	<0.000629	U *- *+ *1	0.00400	0.000629	mg/L			03/03/23 17:23	1
o-Xylene	<0.000642	U *- *+ *1	0.00200	0.000642	mg/L			03/03/23 17:23	1
Xylenes, Total	<0.000642	U *- *+ *1	0.00400	0.000642	mg/L			03/03/23 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*03/03/23 17:23*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*		*03/03/23 17:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/06/23 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.941	U	4.76	0.941	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.941	U	4.76	0.941	mg/L		03/07/23 15:08	03/07/23 21:38	1
Diesel Range Organics (Over C10-C28)	<0.941	U	4.76	0.941	mg/L		03/07/23 15:08	03/07/23 21:38	1
OII Range Organics (Over C28-C36)	<0.908	U	4.76	0.908	mg/L		03/07/23 15:08	03/07/23 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 135*	*03/07/23 15:08*	*03/07/23 21:38*	*1*
o-Terphenyl	*113*		*70 - 135*	*03/07/23 15:08*	*03/07/23 21:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.4**	B	0.500	0.200	mg/L			03/09/23 22:32	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0127**		0.00400	0.000290	mg/L		03/06/23 08:30	03/06/23 19:11	1
Barium	**0.0821**		0.00400	0.00134	mg/L		03/06/23 08:30	03/06/23 19:11	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 08:30	03/06/23 19:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1600**		20.0	20.0	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-13-W-230302 **Lab Sample ID: 880-25396-3**
Date Collected: 03/02/23 08:27 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1 UJ	0.00200	0.000408	mg/L			03/03/23 18:46	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			03/03/23 18:46	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			03/03/23 18:46	1
m-Xylene & p-Xylene	<0.000629	U *- *+ *1	0.00400	0.000629	mg/L			03/03/23 18:46	1
o-Xylene	<0.000642	U *- *+ *1	0.00200	0.000642	mg/L			03/03/23 18:46	1
Xylenes, Total	<0.000642	U *- *+ *1	0.00400	0.000642	mg/L			03/03/23 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*03/03/23 18:46*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*		*03/03/23 18:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/06/23 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.859	U	4.35	0.859	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.859	U	4.35	0.859	mg/L		03/07/23 15:08	03/08/23 02:31	1
Diesel Range Organics (Over C10-C28)	<0.859	U	4.35	0.859	mg/L		03/07/23 15:08	03/08/23 02:31	1
OII Range Organics (Over C28-C36)	<0.829	U	4.35	0.829	mg/L		03/07/23 15:08	03/08/23 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 135*	*03/07/23 15:08*	*03/08/23 02:31*	*1*
o-Terphenyl	*101*		*70 - 135*	*03/07/23 15:08*	*03/08/23 02:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5360**		50.0	20.0	mg/L			03/13/23 17:58	100

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0401**		0.0200	0.00145	mg/L		03/06/23 08:30	03/07/23 18:25	5
Barium	**0.128**		0.0400	0.0134	mg/L		03/06/23 08:30	03/08/23 17:27	10
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 08:30	03/07/23 18:25	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**10200**		100	100	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: RW-6-W-230302 Lab Sample ID: 880-25396-4

Date Collected: 03/02/23 08:48 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0318**		0.0200	0.00408	mg/L			03/15/23 08:40	10
Toluene	<0.00367	U	0.0200	0.00367	mg/L			03/15/23 08:40	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			03/15/23 08:40	10
m-Xylene & p-Xylene	<0.00629	U	0.0400	0.00629	mg/L			03/15/23 08:40	10
o-Xylene	<0.00642	U	0.0200	0.00642	mg/L			03/15/23 08:40	10
Xylenes, Total	<0.00642	U	0.0400	0.00642	mg/L			03/15/23 08:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*03/15/23 08:40*	*10*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*		*03/15/23 08:40*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0318**	**J**	0.0400	0.00657	mg/L			03/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2.95**	**J**	4.45	0.880	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.64**	**J**	4.45	0.880	mg/L		03/07/23 15:08	03/07/23 21:57	1
Diesel Range Organics (Over C10-C28)	**1.31**	**J**	4.45	0.880	mg/L		03/07/23 15:08	03/07/23 21:57	1
OII Range Organics (Over C28-C36)	<0.849	U	4.45	0.849	mg/L		03/07/23 15:08	03/07/23 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 135*	*03/07/23 15:08*	*03/07/23 21:57*	*1*
o-Terphenyl	*108*		*70 - 135*	*03/07/23 15:08*	*03/07/23 21:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1130**	**B**	5.00	2.00	mg/L			03/09/23 23:19	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00517**	**J**	0.0200	0.00145	mg/L		03/06/23 08:30	03/07/23 18:27	5
Barium	**1.86**		0.0800	0.0268	mg/L		03/06/23 08:30	03/08/23 17:37	20
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 08:30	03/07/23 18:27	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3050**		40.0	40.0	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: RW-7-W-230302 Lab Sample ID: 880-25396-5

Date Collected: 03/02/23 09:04 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1 UJ	0.00200	0.000408	mg/L			03/03/23 19:06	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			03/03/23 19:06	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			03/03/23 19:06	1
m-Xylene & p-Xylene	<0.000629	U *- *+ *1	0.00400	0.000629	mg/L			03/03/23 19:06	1
o-Xylene	<0.000642	U *- *+ *1	0.00200	0.000642	mg/L			03/03/23 19:06	1
Xylenes, Total	<0.000642	U *- *+ *1	0.00400	0.000642	mg/L			03/03/23 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*03/03/23 19:06*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*		*03/03/23 19:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/06/23 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.898	U	4.55	0.898	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.898	U	4.55	0.898	mg/L		03/07/23 15:08	03/08/23 12:49	1
Diesel Range Organics (Over C10-C28)	<0.898	U	4.55	0.898	mg/L		03/07/23 15:08	03/08/23 12:49	1
OII Range Organics (Over C28-C36)	<0.867	U	4.55	0.867	mg/L		03/07/23 15:08	03/08/23 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 135*	*03/07/23 15:08*	*03/08/23 12:49*	*1*
o-Terphenyl	*107*		*70 - 135*	*03/07/23 15:08*	*03/08/23 12:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4390**	B	5.00	2.00	mg/L			03/09/23 23:43	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00880**	J	0.0200	0.00145	mg/L		03/06/23 08:30	03/07/23 18:30	5
Barium	**0.0921**		0.0400	0.0134	mg/L		03/06/23 08:30	03/08/23 17:39	10
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 08:30	03/07/23 18:30	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**10400**		100	100	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-17-W-230302 **Lab Sample ID: 880-25396-6**
Date Collected: 03/02/23 09:20 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0115**	**J**	0.0200	0.00408	mg/L			03/15/23 09:11	10
Toluene	<0.00367	U	0.0200	0.00367	mg/L			03/15/23 09:11	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			03/15/23 09:11	10
m-Xylene & p-Xylene	<0.00629	U	0.0400	0.00629	mg/L			03/15/23 09:11	10
o-Xylene	<0.00642	U *+	0.0200	0.00642	mg/L			03/15/23 09:11	10
Xylenes, Total	<0.00642	U	0.0400	0.00642	mg/L			03/15/23 09:11	10

UJ

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*03/15/23 09:11*	*10*
1,4-Difluorobenzene (Surr)	*67*	*S1-*	*70 - 130*		*03/15/23 09:11*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0115**	**J**	0.0400	0.00657	mg/L			03/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.909	U	4.60	0.909	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.909	U	4.60	0.909	mg/L		03/07/23 15:08	03/07/23 22:37	1
Diesel Range Organics (Over C10-C28)	<0.909	U	4.60	0.909	mg/L		03/07/23 15:08	03/07/23 22:37	1
OII Range Organics (Over C28-C36)	<0.877	U	4.60	0.877	mg/L		03/07/23 15:08	03/07/23 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 135*	*03/07/23 15:08*	*03/07/23 22:37*	*1*
o-Terphenyl	*114*		*70 - 135*	*03/07/23 15:08*	*03/07/23 22:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5510**		50.0	20.0	mg/L			03/13/23 18:10	100

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0995**		0.0200	0.00145	mg/L		03/06/23 08:30	03/07/23 18:32	5
Barium	**0.351**		0.0400	0.0134	mg/L		03/06/23 08:30	03/08/23 17:42	10
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 08:30	03/07/23 18:32	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**11200**		100	100	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-22-W-230302 **Lab Sample ID: 880-25396-7**
Date Collected: 03/02/23 09:32 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00408	U	0.0200	0.00408	mg/L			03/15/23 09:32	10
Toluene	<0.00367	U	0.0200	0.00367	mg/L			03/15/23 09:32	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			03/15/23 09:32	10
m-Xylene & p-Xylene	<0.00629	U	0.0400	0.00629	mg/L			03/15/23 09:32	10
o-Xylene	<0.00642	U *+	0.0200	0.00642	mg/L			03/15/23 09:32	10
Xylenes, Total	<0.00642	U	0.0400	0.00642	mg/L			03/15/23 09:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*		*03/15/23 09:32*	*10*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*		*03/15/23 09:32*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00657	U	0.0400	0.00657	mg/L			03/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1.07**	**J**	5.02	0.991	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.991	U	5.02	0.991	mg/L		03/07/23 15:08	03/07/23 22:57	1
Diesel Range Organics (Over C10-C28)	**1.07**	**J**	5.02	0.991	mg/L		03/07/23 15:08	03/07/23 22:57	1
OII Range Organics (Over C28-C36)	<0.957	U	5.02	0.957	mg/L		03/07/23 15:08	03/07/23 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 135*	*03/07/23 15:08*	*03/07/23 22:57*	*1*
o-Terphenyl	*101*		*70 - 135*	*03/07/23 15:08*	*03/07/23 22:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5740**		50.0	20.0	mg/L			03/11/23 03:25	100

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0506**		0.0200	0.00145	mg/L		03/06/23 08:30	03/07/23 18:35	5
Barium	**1.60**		0.0400	0.0134	mg/L		03/06/23 08:30	03/08/23 17:44	10
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 08:30	03/07/23 18:35	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**10900**		100	100	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-3-W-230302 **Lab Sample ID: 880-25396-8**
Date Collected: 03/02/23 09:44 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.81	J	0.0400	0.00816	mg/L			03/15/23 16:55	20
Toluene	<0.000367	~~U~~ UJ	0.00200	0.000367	mg/L			03/15/23 07:33	1
Ethylbenzene	0.00164	J	0.00200	0.000657	mg/L			03/15/23 07:33	1
m-Xylene & p-Xylene	0.000800	J	0.00400	0.000629	mg/L			03/15/23 07:33	1
o-Xylene	0.00199	J	0.00200	0.000642	mg/L			03/15/23 07:33	1
Xylenes, Total	0.00279	J	0.00400	0.000642	mg/L			03/15/23 07:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*		*03/15/23 07:33*	*1*
1,4-Difluorobenzene (Surr)	*251*	*S1+*	*70 - 130*		*03/15/23 07:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.81		0.00400	0.000657	mg/L			03/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3.02	J	4.62	0.912	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3.02	J	4.62	0.912	mg/L		03/07/23 15:08	03/07/23 23:16	1
Diesel Range Organics (Over C10-C28)	<0.912	U	4.62	0.912	mg/L		03/07/23 15:08	03/07/23 23:16	1
OII Range Organics (Over C28-C36)	<0.880	U	4.62	0.880	mg/L		03/07/23 15:08	03/07/23 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 135*	*03/07/23 15:08*	*03/07/23 23:16*	*1*
o-Terphenyl	*109*		*70 - 135*	*03/07/23 15:08*	*03/07/23 23:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18400	~~B~~	50.0	20.0	mg/L			03/10/23 00:43	100

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0543		0.0200	0.00145	mg/L		03/06/23 08:30	03/07/23 18:37	5
Barium	13.1		0.200	0.0671	mg/L		03/06/23 08:30	03/08/23 17:46	50
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 08:30	03/07/23 18:37	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	33900		200	200	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-7-W-230302 Lab Sample ID: 880-25396-9

Date Collected: 03/02/23 09:59 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1 UJ	0.00200	0.000408	mg/L			03/03/23 19:27	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			03/03/23 19:27	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			03/03/23 19:27	1
m-Xylene & p-Xylene	<0.000629	U *- *+ *1	0.00400	0.000629	mg/L			03/03/23 19:27	1
o-Xylene	<0.000642	U *- *+ *1	0.00200	0.000642	mg/L			03/03/23 19:27	1
Xylenes, Total	<0.000642	U *- *+ *1	0.00400	0.000642	mg/L			03/03/23 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*03/03/23 19:27*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*		*03/03/23 19:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/06/23 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.950	U	4.81	0.950	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.950	U	4.81	0.950	mg/L		03/09/23 16:01	03/10/23 16:29	1
Diesel Range Organics (Over C10-C28)	<0.950	U	4.81	0.950	mg/L		03/09/23 16:01	03/10/23 16:29	1
OII Range Organics (Over C28-C36)	<0.917	U	4.81	0.917	mg/L		03/09/23 16:01	03/10/23 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*147*	*S1+*	*70 - 135*	*03/09/23 16:01*	*03/10/23 16:29*	*1*
o-Terphenyl	*179*	*S1+*	*70 - 135*	*03/09/23 16:01*	*03/10/23 16:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6170**		50.0	20.0	mg/L			03/13/23 19:12	100

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0137**	**J**	0.0200	0.00145	mg/L		03/06/23 08:30	03/07/23 18:39	5
Barium	**0.0585**		0.0200	0.00671	mg/L		03/06/23 08:30	03/08/23 17:06	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 08:30	03/07/23 18:39	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**13100**		100	100	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-17-W-230302 Lab Sample ID: 880-25396-10

Date Collected: 03/02/23 10:14 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1 UJ	0.00200	0.000408	mg/L			03/03/23 19:47	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			03/03/23 19:47	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			03/03/23 19:47	1
m-Xylene & p-Xylene	<0.000629	U *- *+ *1	0.00400	0.000629	mg/L			03/03/23 19:47	1
o-Xylene	<0.000642	U *- *+ *1	0.00200	0.000642	mg/L			03/03/23 19:47	1
Xylenes, Total	<0.000642	U *- *+ *1	0.00400	0.000642	mg/L			03/03/23 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*03/03/23 19:47*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*		*03/03/23 19:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/06/23 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.932	U	4.72	0.932	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.932	U	4.72	0.932	mg/L		03/09/23 15:58	03/10/23 17:09	1
Diesel Range Organics (Over C10-C28)	<0.932	U	4.72	0.932	mg/L		03/09/23 15:58	03/10/23 17:09	1
OII Range Organics (Over C28-C36)	<0.900	U	4.72	0.900	mg/L		03/09/23 15:58	03/10/23 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 135*	*03/09/23 15:58*	*03/10/23 17:09*	*1*
o-Terphenyl	*99*		*70 - 135*	*03/09/23 15:58*	*03/10/23 17:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**885**	B	5.00	2.00	mg/L			03/10/23 04:05	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0134**		0.00400	0.000290	mg/L		03/06/23 09:30	03/06/23 17:05	1
Barium	**0.131**		0.00400	0.00134	mg/L		03/06/23 09:30	03/06/23 17:05	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 09:30	03/06/23 17:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**2510**		20.0	20.0	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-1-W-230302 **Lab Sample ID: 880-25396-11**
Date Collected: 03/02/23 10:28 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1 UJ	0.00200	0.000408	mg/L			03/03/23 20:08	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			03/03/23 20:08	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			03/03/23 20:08	1
m-Xylene & p-Xylene	<0.000629	U *- *+ *1	0.00400	0.000629	mg/L			03/03/23 20:08	1
o-Xylene	<0.000642	U *- *+ *1	0.00200	0.000642	mg/L			03/03/23 20:08	1
Xylenes, Total	<0.000642	U *- *+ *1	0.00400	0.000642	mg/L			03/03/23 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*03/03/23 20:08*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*		*03/03/23 20:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/06/23 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.950	U	4.81	0.950	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.950	U	4.81	0.950	mg/L		03/09/23 16:01	03/10/23 17:29	1
Diesel Range Organics (Over C10-C28)	<0.950	U	4.81	0.950	mg/L		03/09/23 16:01	03/10/23 17:29	1
OII Range Organics (Over C28-C36)	<0.917	U	4.81	0.917	mg/L		03/09/23 16:01	03/10/23 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 135*	*03/09/23 16:01*	*03/10/23 17:29*	*1*
o-Terphenyl	*99*		*70 - 135*	*03/09/23 16:01*	*03/10/23 17:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**420**	B	0.500	0.200	mg/L			03/10/23 04:17	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0473**		0.00400	0.000290	mg/L		03/06/23 09:30	03/06/23 17:24	1
Barium	**0.0522**		0.00400	0.00134	mg/L		03/06/23 09:30	03/06/23 17:24	1
Chromium	**0.00324**	J	0.00400	0.000560	mg/L		03/06/23 09:30	03/06/23 17:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1540**		20.0	20.0	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 08:15	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-8-W-230302 **Lab Sample ID: 880-25396-12**
Date Collected: 03/02/23 10:48 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1 UJ	0.00200	0.000408	mg/L			03/03/23 20:28	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			03/03/23 20:28	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			03/03/23 20:28	1
m-Xylene & p-Xylene	<0.000629	U *- *+ *1	0.00400	0.000629	mg/L			03/03/23 20:28	1
o-Xylene	<0.000642	U *- *+ *1	0.00200	0.000642	mg/L			03/03/23 20:28	1
Xylenes, Total	<0.000642	U *- *+ *1	0.00400	0.000642	mg/L			03/03/23 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*03/03/23 20:28*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*		*03/03/23 20:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/06/23 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.893	U	4.52	0.893	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.893	U	4.52	0.893	mg/L		03/09/23 16:01	03/10/23 17:49	1
Diesel Range Organics (Over C10-C28)	<0.893	U	4.52	0.893	mg/L		03/09/23 16:01	03/10/23 17:49	1
OII Range Organics (Over C28-C36)	<0.862	U	4.52	0.862	mg/L		03/09/23 16:01	03/10/23 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 135*	*03/09/23 16:01*	*03/10/23 17:49*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 135*	*03/09/23 16:01*	*03/10/23 17:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**	B	0.500	0.200	mg/L			03/10/23 04:41	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0237**		0.00400	0.000290	mg/L		03/06/23 09:30	03/06/23 17:26	1
Barium	**0.0356**		0.00400	0.00134	mg/L		03/06/23 09:30	03/06/23 17:26	1
Chromium	**0.00152**	J	0.00400	0.000560	mg/L		03/06/23 09:30	03/06/23 17:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**631**		10.0	10.0	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 08:15	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-2-W-230302 Lab Sample ID: 880-25396-13

Date Collected: 03/02/23 12:24 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	~~U *1~~ UJ	0.00200	0.000408	mg/L			03/15/23 11:49	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 11:49	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 11:49	1
m-Xylene & p-Xylene	**0.00159**	**J**	0.00400	0.000629	mg/L			03/15/23 11:49	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 11:49	1
Xylenes, Total	**0.00159**	**J**	0.00400	0.000642	mg/L			03/15/23 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*		*03/15/23 11:49*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*		*03/15/23 11:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00159**	**J**	0.00400	0.000657	mg/L			03/15/23 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.929	U	4.70	0.929	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.929	U	4.70	0.929	mg/L		03/09/23 16:01	03/10/23 18:09	1
Diesel Range Organics (Over C10-C28)	<0.929	U	4.70	0.929	mg/L		03/09/23 16:01	03/10/23 18:09	1
OII Range Organics (Over C28-C36)	<0.897	U	4.70	0.897	mg/L		03/09/23 16:01	03/10/23 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 135*	*03/09/23 16:01*	*03/10/23 18:09*	*1*
o-Terphenyl	*110*		*70 - 135*	*03/09/23 16:01*	*03/10/23 18:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**805**	~~B~~	5.00	2.00	mg/L			03/10/23 05:16	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0128**		0.00400	0.000290	mg/L		03/06/23 09:30	03/06/23 17:29	1
Barium	**0.0437**		0.00400	0.00134	mg/L		03/06/23 09:30	03/06/23 17:29	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 09:30	03/06/23 17:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4000**		40.0	40.0	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 08:15	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: ~~MWD-4-W-230302~~ MW-4-W-230302 **Lab Sample ID: 880-25396-14**
Date Collected: 03/02/23 12:43 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	~~U~~ UJ	0.00200	0.000408	mg/L			03/15/23 12:15	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 12:15	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 12:15	1
m-Xylene & p-Xylene	**0.00160**	**J**	0.00400	0.000629	mg/L			03/15/23 12:15	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 12:15	1
Xylenes, Total	**0.00160**	**J**	0.00400	0.000642	mg/L			03/15/23 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/15/23 12:15*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*		*03/15/23 12:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00160**	**J**	0.00400	0.000657	mg/L			03/15/23 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.887	U	4.49	0.887	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.887	U	4.49	0.887	mg/L		03/09/23 16:01	03/10/23 18:29	1
Diesel Range Organics (Over C10-C28)	<0.887	U	4.49	0.887	mg/L		03/09/23 16:01	03/10/23 18:29	1
OII Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		03/09/23 16:01	03/10/23 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 135*	*03/09/23 16:01*	*03/10/23 18:29*	*1*
o-Terphenyl	*111*		*70 - 135*	*03/09/23 16:01*	*03/10/23 18:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1820**	~~B~~	5.00	2.00	mg/L			03/10/23 06:04	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0119**		0.00400	0.000290	mg/L		03/06/23 09:30	03/06/23 17:31	1
Barium	**0.0852**		0.00400	0.00134	mg/L		03/06/23 09:30	03/06/23 17:31	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 09:30	03/06/23 17:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3950**		40.0	40.0	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 08:15	1

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Chain of Custody

XENCO LABORATORIES

Houston TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Work Order No: 254133

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Project Manager	Rebecca Andresen	Bill to (if different)	
Company Name	ARCADIS	Company Name	
Address	1004 N. Big Spring St.	Address	
City, State ZIP	Midland, TX. 79701	City, State ZIP	
Phone	303-471-3477	Email:	andrew.demarco@arcadis.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: New Mexico
Reporting Level II [X] Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD [X] ADaPT ☐ Other

Project Name:	Eunice Project- S Eunice	Turn Around	
Project Number	30049612	Routine [X]	
P.O. Number		Rush	
Sampler's Name:	Jerry Longwell/Daniel McGee	Due Date	

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C)	0.2 5.9	Thermometer ID	IR6
Received Intact:	(Yes) No		
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-.30
Sample Custody Seals	Yes No (N/A)	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (SW8015B)	Hex Chrome (SW7196A)	Dissolved Metals (SW6020_DIS) Chromium, Arsenic & Barium)	TDS (SM2540C)	Chlorides (EPA 300.0)
RW-8-W-230303	W	03/03/23	0744		8	X	X	X	X	X	X
MWD-15-N-230303	W	03/03/23	0801		8	X	X	X	X	X	X
MWD-14-W-230303	W	03/03/23	0816		8	X	X	X	X	X	X
MW-3-W-230303	W	03/03/23	0833		8	X	X	X	X	X	X
MWD-11-W-230303	W	03/03/23	0847		8	X	X	X	X	X	X
TMW-1-W-230303	W	03/03/23	0858		8	X	X	X	X	X	X
MW-25-W-230303	W	03/03/23	0913		8	X	X	X	X	X	X
TMW-6-W-230303	W	03/03/23	0933		8	X	X	X	X	X	X
MW-24-W-230303	W	03/03/23	0547		8	X	X	X	X	X	X
MW-11-W-230303	W	03/03/23	0958		8	X	X	X	X	X	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab if received by 4 30pm

Sample Comments

All Samples Corrosive in MSJ

880-25433 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by. (Signature)	Received by: (Signature)	Date/Time
1		03/03/23 1441	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

Received by OCD: 3/13/2024 8:36:42 PM

Released to Imaging: 4/30/2024 10:08:36 AM

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3/22/2023

Chain of Custody

XENCO LABORATORIES

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Work Order No: 254333

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Project Manager	Rebecca Andresen	Bill to: (if different)	
Company Name.	ARCADIS	Company Name:	
Address.	1004 N Big Spring St	Address.	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	303-471-3477	Email:	andrew demarco@arcadis com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: New Mexico
Reporting Level II ☐ Level III ☒ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☒ ADaPT ☐ Other

Project Name:	Eunice Project- S. Eunice	Turn Around	
Project Number	30049612	Routine	☒
P.O. Number		Rush	
Sampler's Name	Jerry Longwell/Daniel McGee	Due Date	

SAMPLE RECEIPT				
Temp Blank.	Yes No	Wet Ice:	Yes No	
Temperature (°C)		Thermometer ID		
Received Intact:	Yes No			
Cooler Custody Seals.	Yes No N/A	Correction Factor		
Sample Custody Seals.	Yes No N/A	Total Containers.		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (SW8015B)	Hex Chrome (SW7196A)	Dissolved Metals (SW6020_DIS) Chromium, Arsenic & Barium)	TDS (SM2540C)	Chlorides (EPA 300.0)	Sample Comments
MW-26-W-230303	W	03/03/23	1010		8	X	X	X	X	X	X	All Samples Collected in MSJ

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab if received by 4 30pm

Loc: 880
25433

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 Hg

Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		03/03/23 1441	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

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Received by OCD: 3/13/2024 8:36:42 PM

Released to Imaging: 4/30/2024 10:08:36 AM

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: RW-8-W-230303 Lab Sample ID: 880-25433-1

Date Collected: 03/03/23 07:44 **Matrix: Water**
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 20:56	1
Toluene	<0.000367	~~U~~ UJ	0.00200	0.000367	mg/L			03/15/23 20:56	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 20:56	1
m-Xylene & p-Xylene	**0.00159**	**J**	0.00400	0.000629	mg/L			03/15/23 20:56	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 20:56	1
Xylenes, Total	**0.00159**	**J**	0.00400	0.000642	mg/L			03/15/23 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*03/15/23 20:56*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*		*03/15/23 20:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00159**	**J**	0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.995	U	5.03	0.995	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.995	U	5.03	0.995	mg/L		03/09/23 16:01	03/10/23 18:29	1
Diesel Range Organics (Over C10-C28)	<0.995	U	5.03	0.995	mg/L		03/09/23 16:01	03/10/23 18:29	1
OII Range Organics (Over C28-C36)	<0.960	U	5.03	0.960	mg/L		03/09/23 16:01	03/10/23 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 135*	*03/09/23 16:01*	*03/10/23 18:29*	*1*
o-Terphenyl	*117*		*70 - 135*	*03/09/23 16:01*	*03/10/23 18:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		5.00	2.00	mg/L			03/11/23 08:21	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.152**		0.0200	0.00145	mg/L		03/06/23 10:30	03/07/23 18:54	5
Barium	**0.184**		0.0400	0.0134	mg/L		03/06/23 10:30	03/08/23 17:08	10
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 10:30	03/07/23 18:54	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3440**		40.0	40.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.00733**	**J**	0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-15-W-230303 **Lab Sample ID: 880-25433-2**
Date Collected: 03/03/23 08:01 **Matrix: Water**
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00332	J	0.00200	0.000408	mg/L			03/15/23 21:22	1
Toluene	0.000483	J*-	0.00200	0.000367	mg/L			03/15/23 21:22	1
Ethylbenzene	0.0111		0.00200	0.000657	mg/L			03/15/23 21:22	1
m-Xylene & p-Xylene	0.0245		0.00400	0.000629	mg/L			03/15/23 21:22	1
o-Xylene	0.0158		0.00200	0.000642	mg/L			03/15/23 21:22	1
Xylenes, Total	0.0403		0.00400	0.000642	mg/L			03/15/23 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*179*	*S1+*	*70 - 130*		*03/15/23 21:22*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*		*03/15/23 21:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0552		0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.29	J	4.56	0.901	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.29	J	4.56	0.901	mg/L		03/09/23 16:01	03/10/23 18:48	1
Diesel Range Organics (Over C10-C28)	<0.901	U	4.56	0.901	mg/L		03/09/23 16:01	03/10/23 18:48	1
OII Range Organics (Over C28-C36)	<0.869	U	4.56	0.869	mg/L		03/09/23 16:01	03/10/23 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 135*	*03/09/23 16:01*	*03/10/23 18:48*	*1*
o-Terphenyl	*118*		*70 - 135*	*03/09/23 16:01*	*03/10/23 18:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250		5.00	2.00	mg/L			03/11/23 08:46	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00933	J	0.0200	0.00145	mg/L		03/06/23 10:30	03/07/23 18:56	5
Barium	2.83		0.200	0.0671	mg/L		03/06/23 10:30	03/08/23 17:11	50
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 10:30	03/07/23 18:56	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	2830		40.0	40.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	0.0187		0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-14-W-230303 **Lab Sample ID: 880-25433-3**
Date Collected: 03/03/23 08:16 **Matrix: Water**
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.547**	J	0.0400	0.00816	mg/L			03/16/23 14:22	20
Toluene	<0.000367	~~U~~*-UJ	0.00200	0.000367	mg/L			03/15/23 21:48	1
Ethylbenzene	**0.0362**	J	0.00200	0.000657	mg/L			03/15/23 21:48	1
m-Xylene & p-Xylene	**0.00298**	J	0.00400	0.000629	mg/L			03/15/23 21:48	1
o-Xylene	**0.00149**	J	0.00200	0.000642	mg/L			03/15/23 21:48	1
Xylenes, Total	**0.00447**	J	0.00400	0.000642	mg/L			03/15/23 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*		*03/15/23 21:48*	*1*
1,4-Difluorobenzene (Surr)	*156*	*S1+*	*70 - 130*		*03/15/23 21:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.588**		0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1.34**	J	4.84	0.956	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.34**	J	4.84	0.956	mg/L		03/09/23 16:01	03/10/23 19:08	1
Diesel Range Organics (Over C10-C28)	<0.956	U	4.84	0.956	mg/L		03/09/23 16:01	03/10/23 19:08	1
OII Range Organics (Over C28-C36)	<0.923	U	4.84	0.923	mg/L		03/09/23 16:01	03/10/23 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 135*	*03/09/23 16:01*	*03/10/23 19:08*	*1*
o-Terphenyl	*95*		*70 - 135*	*03/09/23 16:01*	*03/10/23 19:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**761**		5.00	2.00	mg/L			03/11/23 09:11	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00145	U	0.0200	0.00145	mg/L		03/06/23 10:30	03/07/23 19:01	5
Barium	**1.25**		0.0400	0.0134	mg/L		03/06/23 10:30	03/08/23 17:13	10
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 10:30	03/07/23 19:01	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3640**		40.0	40.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.00543**	J	0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-3-W-230303 **Lab Sample ID: 880-25433-4**
Date Collected: 03/03/23 08:33 **Matrix: Water**
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00201**		0.00200	0.000408	mg/L			03/15/23 22:15	1
Toluene	<0.000367	U* UJ	0.00200	0.000367	mg/L			03/15/23 22:15	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 22:15	1
m-Xylene & p-Xylene	**0.00165**	**J**	0.00400	0.000629	mg/L			03/15/23 22:15	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 22:15	1
Xylenes, Total	**0.00165**	**J**	0.00400	0.000642	mg/L			03/15/23 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/15/23 22:15*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*		*03/15/23 22:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00366**	**J**	0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.985	U	4.98	0.985	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.985	U	4.98	0.985	mg/L		03/09/23 16:01	03/10/23 19:28	1
Diesel Range Organics (Over C10-C28)	<0.985	U	4.98	0.985	mg/L		03/09/23 16:01	03/10/23 19:28	1
OII Range Organics (Over C28-C36)	<0.950	U	4.98	0.950	mg/L		03/09/23 16:01	03/10/23 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 135*	*03/09/23 16:01*	*03/10/23 19:28*	*1*
o-Terphenyl	*115*		*70 - 135*	*03/09/23 16:01*	*03/10/23 19:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84.9**		0.500	0.200	mg/L			03/11/23 05:41	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0194**		0.00400	0.000290	mg/L		03/06/23 10:30	03/07/23 19:04	1
Barium	**0.0640**		0.0200	0.00671	mg/L		03/06/23 10:30	03/08/23 17:15	5
Chromium	**0.00102**	**J**	0.00400	0.000560	mg/L		03/06/23 10:30	03/06/23 20:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**721**		10.0	10.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-11-W-230303 **Lab Sample ID: 880-25433-5**
Date Collected: 03/03/23 08:47 **Matrix: Water**
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 22:41	1
Toluene	<0.000367	U*- UJ	0.00200	0.000367	mg/L			03/15/23 22:41	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 22:41	1
m-Xylene & p-Xylene	**0.00160**	**J**	0.00400	0.000629	mg/L			03/15/23 22:41	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 22:41	1
Xylenes, Total	**0.00160**	**J**	0.00400	0.000642	mg/L			03/15/23 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*		*03/15/23 22:41*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*		*03/15/23 22:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00160**	**J**	0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.906	U	4.59	0.906	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.906	U	4.59	0.906	mg/L		03/09/23 16:01	03/10/23 19:48	1
Diesel Range Organics (Over C10-C28)	<0.906	U	4.59	0.906	mg/L		03/09/23 16:01	03/10/23 19:48	1
OII Range Organics (Over C28-C36)	<0.875	U	4.59	0.875	mg/L		03/09/23 16:01	03/10/23 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 135*	*03/09/23 16:01*	*03/10/23 19:48*	*1*
o-Terphenyl	*125*		*70 - 135*	*03/09/23 16:01*	*03/10/23 19:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.4**		0.500	0.200	mg/L			03/11/23 06:18	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0198**		0.00400	0.000290	mg/L		03/06/23 10:30	03/07/23 19:06	1
Barium	**0.0416**		0.0200	0.00671	mg/L		03/06/23 10:30	03/08/23 17:18	5
Chromium	**0.00119**	**J**	0.00400	0.000560	mg/L		03/06/23 10:30	03/07/23 19:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**713**		10.0	10.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: TMW-1-W-230303 Lab Sample ID: 880-25433-6

Date Collected: 03/03/23 08:58 **Matrix: Water**
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 23:08	1
Toluene	<0.000367	U*- UJ	0.00200	0.000367	mg/L			03/15/23 23:08	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 23:08	1
m-Xylene & p-Xylene	**0.00163**	**J**	0.00400	0.000629	mg/L			03/15/23 23:08	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 23:08	1
Xylenes, Total	**0.00163**	**J**	0.00400	0.000642	mg/L			03/15/23 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/15/23 23:08*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*		*03/15/23 23:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00163**	**J**	0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.898	U	4.55	0.898	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.898	U	4.55	0.898	mg/L		03/09/23 16:01	03/10/23 20:07	1
Diesel Range Organics (Over C10-C28)	<0.898	U	4.55	0.898	mg/L		03/09/23 16:01	03/10/23 20:07	1
OII Range Organics (Over C28-C36)	<0.867	U	4.55	0.867	mg/L		03/09/23 16:01	03/10/23 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 16:01*	*03/10/23 20:07*	*1*
o-Terphenyl	*106*		*70 - 135*	*03/09/23 16:01*	*03/10/23 20:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**378**		0.500	0.200	mg/L			03/11/23 06:30	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0162**		0.00400	0.000290	mg/L		03/06/23 10:30	03/07/23 20:33	1
Barium	**1.03**		0.0400	0.0134	mg/L		03/06/23 10:30	03/08/23 17:20	10
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 10:30	03/07/23 20:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1150**		20.0	20.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-25-W-230303 **Lab Sample ID: 880-25433-7**
Date Collected: 03/03/23 09:19 **Matrix: Water**
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.771**	J	0.0400	0.00816	mg/L			03/16/23 14:48	20
Toluene	<0.000367	U ~~*~~ UJ	0.00200	0.000367	mg/L			03/15/23 23:34	1
Ethylbenzene	**0.0130**	J	0.00200	0.000657	mg/L			03/15/23 23:34	1
m-Xylene & p-Xylene	**0.00158**	J	0.00400	0.000629	mg/L			03/15/23 23:34	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 23:34	1
Xylenes, Total	**0.00158**	J	0.00400	0.000642	mg/L			03/15/23 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*		*03/15/23 23:34*	*1*
1,4-Difluorobenzene (Surr)	*205*	*S1+*	*70 - 130*		*03/15/23 23:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.786**		0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3.03**	J	4.49	0.887	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.99**	J	4.49	0.887	mg/L		03/09/23 16:01	03/10/23 20:27	1
Diesel Range Organics (Over C10-C28)	**1.04**	J	4.49	0.887	mg/L		03/09/23 16:01	03/10/23 20:27	1
OII Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		03/09/23 16:01	03/10/23 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 135*	*03/09/23 16:01*	*03/10/23 20:27*	*1*
o-Terphenyl	*104*		*70 - 135*	*03/09/23 16:01*	*03/10/23 20:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2540**		5.00	2.00	mg/L			03/11/23 10:00	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0145**	J	0.0200	0.00145	mg/L		03/06/23 10:30	03/07/23 20:36	5
Barium	**1.27**		0.0200	0.00671	mg/L		03/06/23 10:30	03/07/23 20:36	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 10:30	03/07/23 20:36	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**6210**		100	100	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: TMW-6-W-230303 Lab Sample ID: 880-25433-8

Date Collected: 03/03/23 09:33 **Matrix: Water**
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0223**	J	0.00200	0.000408	mg/L			03/16/23 00:00	1
Toluene	<0.000367	~~U*~~ UJ	0.00200	0.000367	mg/L			03/16/23 00:00	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/16/23 00:00	1
m-Xylene & p-Xylene	**0.00161**	J	0.00400	0.000629	mg/L			03/16/23 00:00	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/16/23 00:00	1
Xylenes, Total	**0.00161**	J	0.00400	0.000642	mg/L			03/16/23 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*		*03/16/23 00:00*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*		*03/16/23 00:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0239**		0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4.33**	J	4.63	0.915	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2.01**	J	4.63	0.915	mg/L		03/09/23 16:01	03/10/23 20:47	1
Diesel Range Organics (Over C10-C28)	**2.32**	J	4.63	0.915	mg/L		03/09/23 16:01	03/10/23 20:47	1
OII Range Organics (Over C28-C36)	<0.883	U	4.63	0.883	mg/L		03/09/23 16:01	03/10/23 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 135*	*03/09/23 16:01*	*03/10/23 20:47*	*1*
o-Terphenyl	*107*		*70 - 135*	*03/09/23 16:01*	*03/10/23 20:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.2**		0.500	0.200	mg/L			03/11/23 06:43	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0803**		0.00400	0.000290	mg/L		03/06/23 10:30	03/06/23 20:47	1
Barium	**1.04**		0.0400	0.0134	mg/L		03/06/23 10:30	03/07/23 20:38	10
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 10:30	03/06/23 20:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1150**		10.0	10.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.0111**		0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-24-W-230303 **Lab Sample ID: 880-25433-9**
Date Collected: 03/03/23 09:41 **Matrix: Water**
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	14.7	J	0.100	0.0204	mg/L			03/16/23 15:14	50
Toluene	0.00457		0.00200	0.000367	mg/L			03/16/23 01:43	1
Ethylbenzene	0.0146		0.00200	0.000657	mg/L			03/16/23 01:43	1
m-Xylene & p-Xylene	0.0295		0.00400	0.000629	mg/L			03/16/23 01:43	1
o-Xylene	0.00181	J	0.00200	0.000642	mg/L			03/16/23 01:43	1
Xylenes, Total	0.0313	J	0.00400	0.000642	mg/L			03/16/23 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*45*	*S1-*	*70 - 130*		*03/16/23 01:43*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*		*03/16/23 01:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	14.8		0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.1		4.36	0.862	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1		4.36	0.862	mg/L		03/09/23 16:01	03/10/23 21:06	1
Diesel Range Organics (Over C10-C28)	<0.862	U	4.36	0.862	mg/L		03/09/23 16:01	03/10/23 21:06	1
OII Range Organics (Over C28-C36)	<0.832	U	4.36	0.832	mg/L		03/09/23 16:01	03/10/23 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 135*	*03/09/23 16:01*	*03/10/23 21:06*	*1*
o-Terphenyl	*104*		*70 - 135*	*03/09/23 16:01*	*03/10/23 21:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	281		0.500	0.200	mg/L			03/11/23 10:13	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0325		0.00400	0.000290	mg/L		03/06/23 10:30	03/06/23 20:54	1
Barium	3.18		0.0800	0.0268	mg/L		03/06/23 10:30	03/07/23 20:41	20
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 10:30	03/06/23 20:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1290		20.0	20.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	0.0168		0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-11-W-230303 Lab Sample ID: 880-25433-10

Date Collected: 03/03/23 09:58 **Matrix: Water**
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.78	J	0.400	0.0816	mg/L			03/16/23 15:40	200
Toluene	0.00880	*	0.00200	0.000367	mg/L			03/16/23 02:09	1
Ethylbenzene	0.0114		0.00200	0.000657	mg/L			03/16/23 02:09	1
m-Xylene & p-Xylene	0.0677		0.00400	0.000629	mg/L			03/16/23 02:09	1
o-Xylene	0.0102		0.00200	0.000642	mg/L			03/16/23 02:09	1
Xylenes, Total	0.0779		0.00400	0.000642	mg/L			03/16/23 02:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*170*	*S1+*	*70 - 130*		*03/16/23 02:09*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*		*03/16/23 02:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	5.88		0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	12.1		4.56	0.901	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	11.1		4.56	0.901	mg/L		03/09/23 16:01	03/10/23 21:26	1
Diesel Range Organics (Over C10-C28)	0.975	J	4.56	0.901	mg/L		03/09/23 16:01	03/10/23 21:26	1
OII Range Organics (Over C28-C36)	<0.869	U	4.56	0.869	mg/L		03/09/23 16:01	03/10/23 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 16:01*	*03/10/23 21:26*	*1*
o-Terphenyl	*105*		*70 - 135*	*03/09/23 16:01*	*03/10/23 21:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	154		0.500	0.200	mg/L			03/11/23 06:55	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0334		0.00400	0.000290	mg/L		03/06/23 10:30	03/06/23 20:56	1
Barium	1.64		0.0800	0.0268	mg/L		03/06/23 10:30	03/22/23 15:44	20
Chromium	0.000602	J	0.00400	0.000560	mg/L		03/06/23 10:30	03/06/23 20:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1020		10.0	10.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	0.00448	J	0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-26-W-230303 Lab Sample ID: 880-25433-11

Date Collected: 03/03/23 10:10 **Matrix: Water**
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0449**	**J**	0.100	0.0204	mg/L			03/16/23 16:06	50
Toluene	<0.000367	~~U~~ UJ	0.00200	0.000367	mg/L			03/16/23 02:35	1
Ethylbenzene	**0.00128**	**J**	0.00200	0.000657	mg/L			03/16/23 02:35	1
m-Xylene & p-Xylene	**0.00195**	**J**	0.00400	0.000629	mg/L			03/16/23 02:35	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/16/23 02:35	1
Xylenes, Total	**0.00195**	**J**	0.00400	0.000642	mg/L			03/16/23 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*		*03/16/23 02:35*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*		*03/16/23 02:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0481**		0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**5.55**		4.53	0.895	mg/L			03/13/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2.46**	**J**	4.53	0.895	mg/L		03/09/23 16:01	03/10/23 22:05	1
Diesel Range Organics (Over C10-C28)	**3.09**	**J**	4.53	0.895	mg/L		03/09/23 16:01	03/10/23 22:05	1
OII Range Organics (Over C28-C36)	<0.864	U	4.53	0.864	mg/L		03/09/23 16:01	03/10/23 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 16:01*	*03/10/23 22:05*	*1*
o-Terphenyl	*105*		*70 - 135*	*03/09/23 16:01*	*03/10/23 22:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**153**		0.500	0.200	mg/L			03/11/23 07:32	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0662**		0.00400	0.000290	mg/L		03/06/23 10:30	03/06/23 20:58	1
Barium	**5.06**		0.200	0.0671	mg/L		03/06/23 10:30	03/22/23 15:47	50
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 10:30	03/06/23 20:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1140**		10.0	10.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.0209**		0.0100	0.00270	mg/L			03/03/23 18:00	1

DATA REVIEW REPORT

ARCADIS

Chevron South Eunice

Data Review

South Eunice, New Mexico

Volatile organic compounds, Total Petroleum Hydrocarbons, Metals and Miscellaneous Analyses

SDGs # 880-35118-1, 880-35199-1 and 880-35277-1

Analyses Performed By:

Eurofins Laboratories

Midland, Texas

Report #52420R
Review Level: Tier II
Project: 30180531.00003

Summary

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs)# 880-35118-1, 880-35199-1 and 880-35277-1 for samples collected in association with the Chevron South Eunice Site New Mexico. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets and chain of custody. Analyses were performed on the following samples:

SDGs	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis			
						VOC	TPH	MET	MISC
880-35118-1	MW-15-W-20231031	880-35118-1	Water	10/31//2023		X	X	X	X
	MW-16-W-20231031	880-35118-2	Water	10/31//2023		X	X	X	X
	MW-38-W-20231031	880-35118-3	Water	10/31//2023		X	X	X	X
	MW-35-W-20231031	880-35118-4	Water	10/31//2023		X	X	X	X
	MW-3-W-20231031	880-35118-5	Water	10/31//2023		X	X	X	X
	MW-34-W-20231031	880-35118-6	Water	10/31//2023		X	X	X	X
	MW-32-W-20231031	880-35118-7	Water	10/31//2023		X	X	X	X
	DUP-01-W-20231031	880-35118-8	Water	10/31//2023	MW-15-W-20231031	X	X	X	X
880-35199-1	MW-29-W-20231101	880-35199-1	Water	11/01/2023		X	X	X	X
	MW-30-W-20231101	880-35199-2	Water	11/01/2023		X	X	X	X
	MWD-12-W-20231101	880-35199-3	Water	11/01/2023		X	X	X	X
	MWD-13-W-20231101	880-35199-4	Water	11/01/2023		X	X	X	X
	MW-26-W-20231101	880-35199-5	Water	11/01/2023		X	X	X	X
	MW-11-W-20231101	880-35199-6	Water	11/01/2023		X	X	X	X
	MW-24-W-20231101	880-35199-7	Water	11/01/2023		X	X	X	X
	MW-25-W-20231101	880-35199-8	Water	11/01/2023		X	X	X	X
	MWD-15-W-20231101	880-35199-9	Water	11/01/2023		X	X	X	X
	MW-17-W-20231101	880-35199-10	Water	11/01/2023		X	X	X	X
	MWD-14-W-20231101	880-35199-11	Water	11/01/2023		X	X	X	X
	DUP-02-W-20231101	880-35199-12	Water	11/01/2023	MWD-14-W-20231101	X	X	X	X
880-35277-1	MWD-3-W-20231102	880-35277-1	Water	11/02/2023		X	X	X	X

Notes:
VOC - Volatile organic compounds.
TPH - total petroleum hydrocarbons.
MET - metals.
MISC - miscellaneous includes hexavalent chromium, chloride and total dissolved solids.

Analytical Data Package Documentation

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

Note:
QA - Quality Assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8021B and 8015 B (NM). Data were reviewed in accordance USEPA National Functional Guidelines NFG for Organic Superfund Methods Data Review, EPA-540-R-20-005 (November 2020), with reference to the historical (USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999, as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8021B	Water	14 days from collection to analysis (preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.

Note:

s.u. - Standard units

SDGs# 880-35118-1, 880-35199-1,880-35277-1: All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

SDGs# 880-35118-1, 880-35199-1,880-35277-1: Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

SDG# 880-35118-1: All surrogate recoveries were within control limits.
SDGs# 880-35199-1,880-35277-1: Sample locations associated with surrogates exhibiting recoveries outside of the control limits presented in the following table.

SDG	Sample ID	Surrogate	Recovery
880-35199-1	MW-25-W-20231101	4-Bromofluorobenzene	> UL
	DUP-02-W-20231101	1,4-Difluorobenzene	
880-35277-1	MWD-3-W-20231102	1,4-Difluorobenzene	

Note:
UL- Upper control limit.

The criteria used to evaluate the surrogate recoveries are presented in the following table. In the case of a surrogate deviation, the sample results associated with the deviant fraction are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	No Action
	Detect	J
< LL but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Surrogates diluted below the calibration curve due to the high concentration of a target compounds	Non-detect	J

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

SDG # 880-35118-1: MS/MSD analysis was performed on sample MW-15-W-20231031, exhibited acceptable recoveries and RPDs with below exceptions.

SDG#880-35199-1: MS/MSD analysis was performed on sample MWD-15-W-20231101 exhibited acceptable recoveries and RPDs with below exceptions.

MS/MSD analysis was performed on sample MWD-14-W-20231101, exhibited acceptable recoveries and RPDs.

SDG # 880-35277-1: MS/MSD analysis was not performed on sample from this SDG.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

SDG	Sample ID	Compounds	MS Recovery	MSD Recovery
880-35118-1	MW-15-W-20231031	Toluene	>UL	AC
		Ethylbenzene		
880-35199-1	MWD-15-W-20231101	Ethylbenzene	AC	< LL but > 10%
		m-Xylene & p-Xylene		
		o-Xylene		

Notes:
UL- Upper control limit
LL- Lower control limit
AC- Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action

Control Limit	Sample Result	Qualification
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than the control limit is presented in the following table.

Sample ID	Compound
MWD-15-W-20231101	Ethylbenzene
	m-Xylene & p-Xylene
	o-Xylene

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery and RPDs within the laboratory-established acceptance limits.

SDGs# 880-35118-1, 880-35277-1, and 880-35199-1: All compounds associated with the LCS/LCSD analysis exhibited recoveries and RPDs within the control limits with the exceptions noted below.

SDG	Sample ID	Compound
880-35118-1	MW-15-W-20231031 MW-16-W-20231031 MW-38-W-20231031 MW-35-W-20231031 MW-3-W-20231031 MW-34-W-20231031 MW-32-W-20231031 DUP-01-W-20231031	Toluene o-Xylene
880-35199-1	MW-29-W-20231101 MW-30-W-20231101	Toluene o-Xylene

SDG	Sample ID	Compound
	MWD-12-W-20231101 MWD-13-W-20231101 MW-26-W-20231101 MW-11-W-20231101 MW-25-W-20231101	

The criteria used to evaluate the RPD between the LCS/LCSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

SDG# 880-35277-1: Field duplicate sample was not collected for the samples from this SDG.
SDGs # 880-35118-1 and 880-35199-1: Results for duplicate samples are summarized in the following table.

SDG	Sample ID/Duplicate ID	Compounds	Sample Result	Duplicate Result	RPD
880-35118-1	MW-15-W-20231031/ DUP-01-W-20231031	Benzene	0.000971 J	0.00118 J	AC
		m-Xylene & p-Xylene	0.00172 J	0.00169 J	AC
		o-Xylene	0.000858 J	0.000854 J	AC
		Xylenes, Total	0.00258 J	0.00254 J	AC
880-35199-1	MWD-14-W-20231101/ DUP-02-W-20231101	Benzene	1.53	1.52	0.7%
		Ethylbenzene	0.104	0.0974	6.5%
		m-Xylene & p-Xylene	0.00747	0.00827	AC
		o-Xylene	0.00135 J	0.00169 J	AC
		Xylenes, Total	0.00882	0.00996	AC

Note:

AC – Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

7. System Performance and Overall Assessment

SDGs # 880-35199-1 and 880-35277-1: Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

SDG	Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
880-35199-1	MWD-14-W-20231101	Benzene	--	1.53	1.53 D
	DUP-02-W-20231101		--	1.52	1.52 D
880-35277-1	MWD-3-W-20231102		--	1.27	1.27 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: SW-846 8021B	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Gas Chromatography/Mass Spectrometry (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
C. Trip blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X	X		
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X	X		
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X	X		
Dilution Factor		X		X	

Notes:
%R - Percent recovery
RPD - Relative percent difference

Total Petroleum Hydrocarbons Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
TPH by SW-846 8015 B(NM)	Water	14 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

SDGs# 880-35118-1, 880-35199-1,880-35277-1: All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

SDGs# 880-35118-1, 880-35199-1,880-35277-1: Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. The analysis requires surrogate compounds exhibit recoveries within the laboratory-established acceptance limits.

SDGs# 880-35118-1, 880-35199-1,880-35277-1: All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

SDGs# 880-35118-1, 880-35199-1,880-35277-1: MS/MSD analysis was not performed on samples from these SDGs.

5. Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate Analysis (LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery and RPD within the laboratory-established acceptance limits.

SDGs# 880-35118-1, 880-35199-1,880-35277-1: All compounds associated with the LCS/LCSD analysis exhibited recoveries and RPDs within the control limits.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

SDG# 880-35277-1: Field duplicate sample was not collected for the samples from this SDG.
SDGs # 880-35118-1 and 880-35199-1: Results for duplicate samples are summarized in the following table.

SDG	Sample ID/Duplicate ID	Compounds	Sample Result	Duplicate Result	RPD
880-35118-1	MW-15-W-20231031 / DUP-01-W-20231031	All compounds	U	U	AC
880-35199-1	MWD-14-W-20231101 / DUP-02-W-20231101	Total TPH	2.66 J	2.43 J	AC
		Gasoline Range Organics (GRO)-C6-C10	2.66 J	2.43 J	AC
		Diesel Range Organics (Over C10-C28)	U	U	AC
		Oil Range Organics (Over C28-C36)	U	U	AC

Notes:
AC – Acceptable
U – non-detect

The calculated RPDs between the parent sample and field duplicate were acceptable.

7. System Performance and Overall Assessment

SDGs# 880-35118-1, 880-35199-1,880-35277-1: Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for TPH

TPH: SW-846 8015B (NM)	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Gas Chromatography (GC/FID)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	

Notes:
%R - percent recovery
RPD - relative percent difference

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6020A, 7196A, EPA 300, and SM 2540C. Data were reviewed in accordance with USEPA National Functional Guidelines NFG for Inorganic Superfund Methods Data Review, EPA-540-R-20-006 (November 2020), with reference to the historical (USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-05A-P, October 2004, as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
  - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
  - E The reported value is estimated due to the presence of interference.
  - N Spiked sample recovery is not within control limits.
  - * Duplicate analysis is not within control limits.
- Validation Qualifiers
  - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6020A	Water	180 days from collection to analysis	Preserved to a pH of less than 2.

SDGs# 880-35118-1, 880-35199-1,880-35277-1: All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

SDGs# 880-35118-1, 880-35199-1,880-35277-1: Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

SDG # 880-35199-1: MS/MSD analysis was performed on sample MWD-12-W-20231101 exhibited acceptable recoveries and RPDs.

SDGs# 880-35118-1 and 880-35277-1: MS/MSD analysis was not performed on samples from these SDGs.

3.2 Laboratory Duplicate Analysis

The laboratory duplicates relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one time the RL is applied for water matrices and two times the RL for soil matrices.

SDGs# 880-35118-1, 880-35199-1,880-35277-1: Laboratory duplicate analysis was not performed on samples from these SDGs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

SDG# 880-35277-1: Field duplicate sample was not collected for the samples from this SDG.

SDGs# 880-35118-1 and 880-35199-1: Results for duplicate samples are summarized in the following table.

SDGs	Sample ID/Duplicate ID	Analytes	Sample Result	Duplicate Result	RPD
880-35118-1	MW-15-W-20231031 / DUP-01-W-20231031	Arsenic	0.0138 J	0.0149 J	AC
		Barium	0.0433	0.0481	AC
		Chromium	U	U	AC
880-35199-1	MWD-14-W-20231101 / DUP-02-W-20231101	Arsenic	U	U	AC
		Barium	0.689	0.871	23.3%
		Chromium	0.000775 J	0.0200 U	AC

Notes:
AC – Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 80% and 120%.

SDGs# 880-35118-1, 880-35199-1 and 880-35277-1: The LCS/LCSD analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

SDGs# 880-35118-1, 880-35199-1 and 880-35277-1: Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metal

METALS; SW-846 6020A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks	X				X
B. Method Blanks		X		X	
C. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Lab Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	
Reporting Limit Verification		X		X	

Notes:
%R - Percent recovery
RPD - Relative percent difference
%D - Percent difference

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Hexavalent chromium by SW-846 7196A	Water	24 hours from collection to analysis	Cool to <6 °C.
Chloride by EPA 300.0	Water	28 days from collection to analysis	Cool to <6 °C.
Total Dissolved Solids by SM 2540C	Water	7 days from collection to analysis	Cool to <6 °C.

SDGs# 880-35118-1, 880-35199-1,880-35277-1: All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

SDGs# 880-35118-1, 880-35199-1,880-35277-1: Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

SDG# 880-35118-1: MS/MSD analysis was performed on sample MW-35-W-2023103 for chloride and on sample MW-15-W-20231031 for hexavalent chromium. MS/MSD analysis exhibited recoveries and RPDs within the control limits.
SDG# 880-35199-1: MS/MSD analysis was performed on sample MW-26-W-20231101 for chloride, on sample MW-30-W-20231101 and MW-17-W-20231101 for hexavalent chromium analysis. MS/MSD analysis exhibited recoveries and RPDs within the control limits.

SDG# 880-35277-1: MS/MSD analysis was performed on sample MWD-3-W-20231102 for hexavalent chromium MS/MSD analysis exhibited recoveries and RPDs within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicates relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is

applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one time the RL is applied for water matrices.

SDG # 880-35118-1: A laboratory duplicate analysis was performed on sample MW-15-W-20231031 and MW-16-W-20231031 for total dissolved solids. Laboratory duplicate analysis exhibited RPDs within control limits.

SDG# 880-35199-1: A laboratory duplicate analysis was performed on sample MW-15-W-230301 and MW-17-W-20231101 for total dissolved solids. Laboratory duplicate analysis exhibited RPDs within control limits.

SDG# 880-35277-1: A laboratory duplicate analysis was not performed on samples from this SDGs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

SDG# 880-35277-1: Field duplicate sample was not collected for the samples from this SDG.

SDGs# 880-35118-1 and 880-35199-1: Results for duplicate samples are summarized in the following table.

SDGs	Sample ID/Duplicate ID	Analytes	Sample Result	Duplicate Result	RPD
880-35118-1	MW-15-W-20231031 / DUP-01-W-20231031	Chloride	1380	1460	5.6%
		Total Dissolved Solids	4660	4730	1.5%
		Cr (VI)	U	U	2.3%
880-35199-1	MWD-14-W-20231101 / DUP-02-W-20231101	Chloride	474	446	6.1%
		Total Dissolved Solids	4220	4260	0.9%
		Cr (VI)	U	U	AC

Notes:
AC – Acceptable
U – non-detect

The calculated RPDs between the parent sample and field duplicate were acceptable.

5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 80% and 120%.

SDGs# 880-35118-1, 880-35199-1 and 880-35277-1: The LCS/LCSD analysis exhibited recoveries and RPDs within the control limits.

6. System Performance and Overall Assessment

SDGs# 880-35118-1, 880-35199-1 and 880-35277-1: Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SW 7196A, EPA 300.0 and SM 2540C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Lab Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	
Dilution Factor		X		X	

Notes:
%RSD - Relative standard deviation
%R - Percent recovery
RPD - Relative percent difference

DATA REVIEW REPORT

ARCADIS

VALIDATION PERFORMED BY: Prashanth K

SIGNATURE:

DATE: December 29, 2023

PEER REVIEW: Dennis Capria

DATE: January 26, 2024

Released to Imaging: 4/30/2024 10:08:36 AM
Received by OCD: 3/13/2024 8:36:42 PM

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

880-35118 Chain of Custody

Client Information	Sampler: Michael Rodriguez	Lab PM: Builes John	Carrier Tracking No:
Client Contact: ~~Sonja Zabienski~~ Nadja Cintron Franqui	Phone: 432-944-3725	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM
Company: ARCADIS US Inc	PWSID:		
Address: 1004 North Big Spring Suite 300	Due Date Requested:		
City: Midland	TAT Requested (days): Standard		
State, Zip: TX 79701	Compliance Project: Δ Yes Δ No		
Phone: 4713408958	PO #: Purchase Order not required		
Email: Nadja.CintronFranqui@arcadis.com ~~sonja.zabienski@arcadis.com~~	WO #:		
Project Name: Eunice South	Project #: 88000209		
Site: Lea County, NM	SSOW#:		

Analysis Requested

Job #:

Preservation Codes

A HCL, B NaOH, C - Zn Acetate, D Nitric Acid, E - NaHSO4, F MeOH, G - Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N - None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	6020A - (MOD) Custom List	2540C_Calcd - Local Method	8015MOD_NM - (MOD) Full TPH	8021B - BTEX	7196A - Local Method	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	D	N	A	A	N		
MW-15-W-20231031	10/31/23	1040	G	Water	X	N	X	X	X	X	X	X	9	
MW-16-W-20231031	10/31/23	1115	G	Water	Y	N	X	X	X	X	X	X	9	
MW-38-W-20231031	10/31/23	1145	G	Water	Y	N	X	X	X	X	X	X	9	
MW-35-W-20231031	10/31/23	1255	G	Water	Y	N	X	X	X	X	X	X	9	
MW-3-W-20231031	10/31/23	1315	G	Water	Y	N	X	X	X	X	X	X	9	
MW-34-W-20231031	10/31/23	1330	G	Water	Y	N	X	X	X	X	X	X	9	
MW-32-W-20231031	10/31/23	1350	G	Water	Y	N	X	X	X	X	X	X	9	
DUP-01-W-20231031	10/31/23	1040	G	Water	Y	N	X	X	X	X	X	X	9	
				Water										
				Water										
				Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Michael Rodriguez	10/31/23 1710	Arcadis		10/31/23 1710	
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time:	Company	Received by	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks.
		14-9/15.1

Ver: 01/16/2019

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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.
¤	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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: MW-15-W-20231031

Date Collected: 10/31/23 10:40
Date Received: 10/31/23 17:10

Lab Sample ID: 880-35118-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000971**	**J**	0.00200	0.000408	mg/L			11/03/23 12:18	1
Toluene	<0.000367	~~U *1 F1~~ UJ	0.00200	0.000367	mg/L			11/03/23 12:18	1
Ethylbenzene	<0.000657	U ~~F1~~	0.00200	0.000657	mg/L			11/03/23 12:18	1
m-Xylene & p-Xylene	**0.00172**	**J**	0.00400	0.000629	mg/L			11/03/23 12:18	1
o-Xylene	**0.000858**	**J *1**	0.00200	0.000642	mg/L			11/03/23 12:18	1
Xylenes, Total	**0.00258**	**J *1**	0.00400	0.000642	mg/L			11/03/23 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*11/03/23 12:18*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*		*11/03/23 12:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00355**	**J**	0.00400	0.000657	mg/L			11/03/23 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.950	U	4.81	0.950	mg/L			11/03/23 15:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.950	U	4.81	0.950	mg/L		11/03/23 10:49	11/03/23 15:31	1
Diesel Range Organics (Over C10-C28)	<0.950	U	4.81	0.950	mg/L		11/03/23 10:49	11/03/23 15:31	1
OII Range Organics (Over C28-C36)	<0.917	U	4.81	0.917	mg/L		11/03/23 10:49	11/03/23 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 135*	*11/03/23 10:49*	*11/03/23 15:31*	*1*
o-Terphenyl	*112*		*70 - 135*	*11/03/23 10:49*	*11/03/23 15:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1380**		5.00	2.50	mg/L			11/03/23 01:51	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0138**	**J**	0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 14:59	5
Barium	**0.0433**		0.0200	0.00671	mg/L		11/06/23 09:30	11/06/23 14:59	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 14:59	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4660**		40.0	40.0	mg/L			11/03/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/01/23 09:01	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: MW-16-W-20231031

Date Collected: 10/31/23 11:15
Date Received: 10/31/23 17:10

Lab Sample ID: 880-35118-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00105**	**J**	0.00200	0.000408	mg/L			11/03/23 12:44	1
Toluene	<0.000367	~~U *1~~ UJ	0.00200	0.000367	mg/L			11/03/23 12:44	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 12:44	1
m-Xylene & p-Xylene	**0.00169**	**J**	0.00400	0.000629	mg/L			11/03/23 12:44	1
o-Xylene	**0.000858**	**J *1**	0.00200	0.000642	mg/L			11/03/23 12:44	1
Xylenes, Total	**0.00255**	**J *1**	0.00400	0.000642	mg/L			11/03/23 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*		*11/03/23 12:44*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*		*11/03/23 12:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00360**	**J**	0.00400	0.000657	mg/L			11/03/23 12:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.947	U	4.79	0.947	mg/L			11/03/23 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.947	U	4.79	0.947	mg/L		11/03/23 10:49	11/03/23 15:51	1
Diesel Range Organics (Over C10-C28)	<0.947	U	4.79	0.947	mg/L		11/03/23 10:49	11/03/23 15:51	1
OII Range Organics (Over C28-C36)	<0.914	U	4.79	0.914	mg/L		11/03/23 10:49	11/03/23 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 135*	*11/03/23 10:49*	*11/03/23 15:51*	*1*
o-Terphenyl	*113*		*70 - 135*	*11/03/23 10:49*	*11/03/23 15:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1750**		5.00	2.50	mg/L			11/03/23 02:16	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0147**	**J**	0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 15:01	5
Barium	**0.0387**		0.0200	0.00671	mg/L		11/06/23 09:30	11/06/23 15:01	5
Chromium	**0.0880**		0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 15:01	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4480**		40.0	40.0	mg/L			11/03/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.0742**		0.0100	0.00270	mg/L			11/01/23 09:01	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: MW-38-W-20231031

Date Collected: 10/31/23 11:45
Date Received: 10/31/23 17:10

Lab Sample ID: 880-35118-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00102**	**J**	0.00200	0.000408	mg/L			11/03/23 13:10	1
Toluene	<0.000367	~~U~~ *1 UJ	0.00200	0.000367	mg/L			11/03/23 13:10	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 13:10	1
m-Xylene & p-Xylene	**0.00180**	**J**	0.00400	0.000629	mg/L			11/03/23 13:10	1
o-Xylene	<0.000642	U *1 UJ	0.00200	0.000642	mg/L			11/03/23 13:10	1
Xylenes, Total	**0.00180**	**J** ~~*1~~	0.00400	0.000642	mg/L			11/03/23 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*11/03/23 13:10*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*		*11/03/23 13:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00282**	**J**	0.00400	0.000657	mg/L			11/03/23 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.941	U	4.76	0.941	mg/L			11/03/23 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.941	U	4.76	0.941	mg/L		11/03/23 10:49	11/03/23 16:11	1
Diesel Range Organics (Over C10-C28)	<0.941	U	4.76	0.941	mg/L		11/03/23 10:49	11/03/23 16:11	1
OII Range Organics (Over C28-C36)	<0.908	U	4.76	0.908	mg/L		11/03/23 10:49	11/03/23 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:11*	*1*
o-Terphenyl	*112*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1050**		5.00	2.50	mg/L			11/03/23 03:32	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00691**	**J**	0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 15:03	5
Barium	**0.0922**		0.0200	0.00671	mg/L		11/06/23 09:30	11/06/23 15:03	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 15:03	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3000**		40.0	40.0	mg/L			11/03/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/01/23 09:01	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: MW-35-W-20231031

Date Collected: 10/31/23 12:55
Date Received: 10/31/23 17:10

Lab Sample ID: 880-35118-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000968**	**J**	0.00200	0.000408	mg/L			11/03/23 13:36	1
Toluene	<0.000367	~~U~~ *1 UJ	0.00200	0.000367	mg/L			11/03/23 13:36	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 13:36	1
m-Xylene & p-Xylene	**0.00169**	**J**	0.00400	0.000629	mg/L			11/03/23 13:36	1
o-Xylene	**0.000877**	**J *1**	0.00200	0.000642	mg/L			11/03/23 13:36	1
Xylenes, Total	**0.00257**	**J *1**	0.00400	0.000642	mg/L			11/03/23 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*		*11/03/23 13:36*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*		*11/03/23 13:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00354**	**J**	0.00400	0.000657	mg/L			11/03/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.941	U	4.76	0.941	mg/L			11/03/23 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.941	U	4.76	0.941	mg/L		11/03/23 10:49	11/03/23 16:51	1
Diesel Range Organics (Over C10-C28)	<0.941	U	4.76	0.941	mg/L		11/03/23 10:49	11/03/23 16:51	1
OII Range Organics (Over C28-C36)	<0.908	U	4.76	0.908	mg/L		11/03/23 10:49	11/03/23 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:51*	*1*
o-Terphenyl	*110*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**149**		0.500	0.250	mg/L			11/02/23 23:07	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00940**	**J**	0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 15:20	5
Barium	**0.107**		0.0200	0.00671	mg/L		11/06/23 09:30	11/06/23 15:20	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 15:20	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**940**		10.0	10.0	mg/L			11/03/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/01/23 09:01	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: MW-3-W-20231031

Date Collected: 10/31/23 13:15
Date Received: 10/31/23 17:10

Lab Sample ID: 880-35118-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			11/03/23 14:02	1
Toluene	<0.000367	~~U~~ *1 UJ	0.00200	0.000367	mg/L			11/03/23 14:02	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 14:02	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			11/03/23 14:02	1
o-Xylene	<0.000642	~~U *1~~ UJ	0.00200	0.000642	mg/L			11/03/23 14:02	1
Xylenes, Total	<0.000642	U ~~*1~~	0.00400	0.000642	mg/L			11/03/23 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*		*11/03/23 14:02*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*11/03/23 14:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			11/03/23 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.956	U	4.84	0.956	mg/L			11/03/23 16:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.956	U	4.84	0.956	mg/L		11/03/23 10:49	11/03/23 16:31	1
Diesel Range Organics (Over C10-C28)	<0.956	U	4.84	0.956	mg/L		11/03/23 10:49	11/03/23 16:31	1
OII Range Organics (Over C28-C36)	<0.923	U	4.84	0.923	mg/L		11/03/23 10:49	11/03/23 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:31*	*1*
o-Terphenyl	*112*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.6**		0.500	0.250	mg/L			11/02/23 23:45	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0189**	**J**	0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 15:22	5
Barium	**0.0509**		0.0200	0.00671	mg/L		11/06/23 09:30	11/06/23 15:22	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 15:22	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**721**		10.0	10.0	mg/L			11/03/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/01/23 09:01	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: MW-34-W-20231031

Date Collected: 10/31/23 13:30
Date Received: 10/31/23 17:10

Lab Sample ID: 880-35118-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00102**	**J**	0.00200	0.000408	mg/L			11/03/23 14:28	1
Toluene	<0.000367	~~U~~ *1 UJ	0.00200	0.000367	mg/L			11/03/23 14:28	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 14:28	1
m-Xylene & p-Xylene	**0.00172**	**J**	0.00400	0.000629	mg/L			11/03/23 14:28	1
o-Xylene	**0.00157**	**J *1**	0.00200	0.000642	mg/L			11/03/23 14:28	1
Xylenes, Total	**0.00329**	**J *1**	0.00400	0.000642	mg/L			11/03/23 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*11/03/23 14:28*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*		*11/03/23 14:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00431**		0.00400	0.000657	mg/L			11/03/23 14:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3.03**	**J**	4.78	0.944	mg/L			11/03/23 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.80**	**J**	4.78	0.944	mg/L		11/03/23 10:49	11/03/23 16:51	1
Diesel Range Organics (Over C10-C28)	**1.23**	**J**	4.78	0.944	mg/L		11/03/23 10:49	11/03/23 16:51	1
OII Range Organics (Over C28-C36)	<0.911	U	4.78	0.911	mg/L		11/03/23 10:49	11/03/23 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:51*	*1*
o-Terphenyl	*108*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**238**		0.500	0.250	mg/L			11/03/23 03:45	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00345	U	0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 15:24	5
Barium	**4.60**		0.200	0.0671	mg/L		11/06/23 09:30	11/06/23 15:33	50
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 15:24	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1750**		20.0	20.0	mg/L			11/03/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.0105**		0.0100	0.00270	mg/L			11/01/23 09:01	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: MW-32-W-20231031

Date Collected: 10/31/23 13:50
Date Received: 10/31/23 17:10

Lab Sample ID: 880-35118-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.211**		0.00200	0.000408	mg/L			11/03/23 14:54	1
Toluene	<0.000367	~~U *1~~ UJ	0.00200	0.000367	mg/L			11/03/23 14:54	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 14:54	1
m-Xylene & p-Xylene	**0.00170**	**J**	0.00400	0.000629	mg/L			11/03/23 14:54	1
o-Xylene	**0.00106**	**J *1**	0.00200	0.000642	mg/L			11/03/23 14:54	1
Xylenes, Total	**0.00276**	**J *1**	0.00400	0.000642	mg/L			11/03/23 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*11/03/23 14:54*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*		*11/03/23 14:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.214**		0.00400	0.000657	mg/L			11/03/23 14:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1.73**	**J**	4.84	0.956	mg/L			11/03/23 17:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.73**	**J**	4.84	0.956	mg/L		11/03/23 10:49	11/03/23 17:12	1
Diesel Range Organics (Over C10-C28)	<0.956	U	4.84	0.956	mg/L		11/03/23 10:49	11/03/23 17:12	1
OII Range Organics (Over C28-C36)	<0.923	U	4.84	0.923	mg/L		11/03/23 10:49	11/03/23 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 135*	*11/03/23 10:49*	*11/03/23 17:12*	*1*
o-Terphenyl	*112*		*70 - 135*	*11/03/23 10:49*	*11/03/23 17:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**871**		5.00	2.50	mg/L			11/03/23 04:23	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0538**		0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 15:26	5
Barium	**2.80**		0.200	0.0671	mg/L		11/06/23 09:30	11/06/23 15:36	50
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 15:26	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3370**		40.0	40.0	mg/L			11/03/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.0110**		0.0100	0.00270	mg/L			11/01/23 09:01	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: DUP-01-W-20231031

Date Collected: 10/31/23 10:40
Date Received: 10/31/23 17:10

Lab Sample ID: 880-35118-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00118**	**J**	0.00200	0.000408	mg/L			11/03/23 15:20	1
Toluene	<0.000367	U *1 UJ	0.00200	0.000367	mg/L			11/03/23 15:20	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 15:20	1
m-Xylene & p-Xylene	**0.00169**	**J**	0.00400	0.000629	mg/L			11/03/23 15:20	1
o-Xylene	**0.000854**	**J *1**	0.00200	0.000642	mg/L			11/03/23 15:20	1
Xylenes, Total	**0.00254**	**J *1**	0.00400	0.000642	mg/L			11/03/23 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*11/03/23 15:20*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*		*11/03/23 15:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00372**	**J**	0.00400	0.000657	mg/L			11/03/23 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.938	U	4.75	0.938	mg/L			11/03/23 17:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.938	U	4.75	0.938	mg/L		11/03/23 10:49	11/03/23 17:12	1
Diesel Range Organics (Over C10-C28)	<0.938	U	4.75	0.938	mg/L		11/03/23 10:49	11/03/23 17:12	1
OII Range Organics (Over C28-C36)	<0.905	U	4.75	0.905	mg/L		11/03/23 10:49	11/03/23 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 135*	*11/03/23 10:49*	*11/03/23 17:12*	*1*
o-Terphenyl	*116*		*70 - 135*	*11/03/23 10:49*	*11/03/23 17:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1460**		5.00	2.50	mg/L			11/03/23 04:48	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0149**	**J**	0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 15:29	5
Barium	**0.0481**		0.0200	0.00671	mg/L		11/06/23 09:30	11/06/23 15:29	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 15:29	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4730**		40.0	40.0	mg/L			11/03/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/01/23 09:01	1

Released to Imaging: 4/30/2024 10:08:36 AM
Received by OCD: 3/13/2024 8:36:42 PM

Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record

880-35199 Chain of Custody

Client Information	Sampler: Michael Rodriguez	Lab PM: Builes John	Carrier Tracking No(s):
Client Contact: ~~Sonja Zablenski~~ Nadia Cintron Franqui	Phone: 432 944-3725	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM
Company: ARCADIS US Inc	PWSID:		
Address: 1004 North Big Spring Suite 300	Due Date Requested:		
City: Midland	TAT Requested (days): Standard		
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No		
Phone: 713-340 8958	PO #: Purchase Order not required		
Email: Nadia.CintronFranqui@arcadis.com ~~sonja.zablenski@arcadis.com~~	WO #:		
Project Name: Eunice South	Project #: 88000209		
Site: Lea County, NM	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C Zn Acetate; D Nitric Acid; E NaHSO4; F MeOH; G Amchlor; H Ascorbic Acid; I Ice; J DI Water; K EDTA; L - EDA; M Hexane; N None; O AsNaO2; P - Na2O4S; Q Na2SO3; R Na2S2O3; S - H2SO4; T TSP Dodecahydrate; U Acetone; V MCAA; W pH 4-5; Y Trizma; Z other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	6020A - (MOD) Custom List	2540C_Calcd - Local Method	8015MOD_NM - (MOD) Full TPH	8021B - BTEX	7196A - Local Method	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	D	N	A	A	N		
MW-24-W-20231101	11/01/23	0950	G	Water	Y	N	X	X	X	X	X	X	9	
MW-30-W-20231101	11/01/23	1015	G	Water	Y	N	X	X	X	X	X	X	9	
MWD-12-W-20231101	11/01/23	1035	G	Water	Y	N	X	X	X	X	X	X	9	
MWD-13-W-20231101	11/01/23	1055	G	Water	Y	N	X	X	X	X	X	X	9	
MW-26-W-20231101	11/01/23	1200	G	Water	Y	N	X	X	X	X	X	X	9	
MW-11-W-20231101	11/01/23	1300	G	Water	Y	N		X	X	X	X		6	
MW-24-W-20231101	11/01/23	1320	G	Water	Y	N	X	X	X	X	X	X	9	
MW-25-W-20231101	11/01/23	1345	G	Water	Y	N	X	X	X	X	X	X	9	
MWD-15-W-20231101	11/01/23	1400	G	Water	Y	N	X	X	X	X	X	X	9	
MW-17-W-20231101	11/01/23	1420	G	Water	Y	N	X	X	X	X	X	X	9	
~~MW-14~~ MWD-14-W-20231101	11/01/23	1445	G	Water	Y	N	X	X	X	X	X	X	9	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: 0.61 6.8 72

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Michael Rodriguez	11/2/23 8:10	Arcadis		11/2/23 8:10	
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks.

Ver: 01/16/2019

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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.
¤	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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MW-29-W-20231101

Date Collected: 11/01/23 09:50
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0105**	**J**	0.0200	0.00408	mg/L			11/03/23 21:13	10
Toluene	<0.00367	U *1 UJ	0.0200	0.00367	mg/L			11/03/23 21:13	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			11/03/23 21:13	10
m-Xylene & p-Xylene	**0.0170**	**J**	0.0400	0.00629	mg/L			11/03/23 21:13	10
o-Xylene	**0.0114**	**J *1**	0.0200	0.00642	mg/L			11/03/23 21:13	10
Xylenes, Total	**0.0284**	**J *1**	0.0400	0.00642	mg/L			11/03/23 21:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*		*11/03/23 21:13*	*10*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*		*11/03/23 21:13*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0389**	**J**	0.0400	0.00657	mg/L			11/03/23 21:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3.42**	**J**	4.81	0.950	mg/L			11/06/23 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**3.42**	**J**	4.81	0.950	mg/L		11/06/23 12:50	11/06/23 19:55	1
Diesel Range Organics (Over C10-C28)	<0.950	U	4.81	0.950	mg/L		11/06/23 12:50	11/06/23 19:55	1
OII Range Organics (Over C28-C36)	<0.917	U	4.81	0.917	mg/L		11/06/23 12:50	11/06/23 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 135*	*11/06/23 12:50*	*11/06/23 19:55*	*1*
o-Terphenyl	*112*		*70 - 135*	*11/06/23 12:50*	*11/06/23 19:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**315**		0.500	0.250	mg/L			11/07/23 03:40	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00286**	**J**	0.00400	0.000690	mg/L		11/07/23 10:00	11/08/23 01:10	1
Barium	**6.71**		0.0800	0.0268	mg/L		11/07/23 10:00	11/08/23 15:03	20
Chromium	<0.000560	U	0.00400	0.000560	mg/L		11/07/23 10:00	11/08/23 01:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1650**		20.0	20.0	mg/L			11/06/23 09:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.0115**		0.0100	0.00270	mg/L			11/02/23 08:38	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MW-30-W-20231101

Date Collected: 11/01/23 10:15
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00408	U	0.0200	0.00408	mg/L			11/03/23 21:38	10
Toluene	<0.00367	U *1 UJ	0.0200	0.00367	mg/L			11/03/23 21:38	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			11/03/23 21:38	10
m-Xylene & p-Xylene	<0.00629	U	0.0400	0.00629	mg/L			11/03/23 21:38	10
o-Xylene	<0.00642	U *1 UJ	0.0200	0.00642	mg/L			11/03/23 21:38	10
Xylenes, Total	<0.00642	U *1	0.0400	0.00642	mg/L			11/03/23 21:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*		*11/03/23 21:38*	*10*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*11/03/23 21:38*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00657	U	0.0400	0.00657	mg/L			11/03/23 21:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.944	U	4.78	0.944	mg/L			11/06/23 20:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.944	U	4.78	0.944	mg/L		11/06/23 12:50	11/06/23 20:15	1
Diesel Range Organics (Over C10-C28)	<0.944	U	4.78	0.944	mg/L		11/06/23 12:50	11/06/23 20:15	1
OII Range Organics (Over C28-C36)	<0.911	U	4.78	0.911	mg/L		11/06/23 12:50	11/06/23 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 135*	*11/06/23 12:50*	*11/06/23 20:15*	*1*
o-Terphenyl	*114*		*70 - 135*	*11/06/23 12:50*	*11/06/23 20:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**286**		0.500	0.250	mg/L			11/07/23 04:05	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0108**	**J**	0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 15:31	5
Barium	**0.312**		0.0200	0.00671	mg/L		11/06/23 09:30	11/06/23 15:31	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 15:31	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1540**		20.0	20.0	mg/L			11/06/23 09:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 08:38	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MWD-12-W-20231101

Date Collected: 11/01/23 10:35
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00973	J	0.0200	0.00408	mg/L			11/03/23 22:03	10
Toluene	0.00385	J ~~*1~~	0.0200	0.00367	mg/L			11/03/23 22:03	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			11/03/23 22:03	10
m-Xylene & p-Xylene	<0.00629	U	0.0400	0.00629	mg/L			11/03/23 22:03	10
o-Xylene	<0.00642	~~U *1~~ UJ	0.0200	0.00642	mg/L			11/03/23 22:03	10
Xylenes, Total	<0.00642	U ~~*1~~	0.0400	0.00642	mg/L			11/03/23 22:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*		*11/03/23 22:03*	*10*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*		*11/03/23 22:03*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0136	J	0.0400	0.00657	mg/L			11/03/23 22:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.31	J	4.85	0.959	mg/L			11/06/23 20:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.959	U	4.85	0.959	mg/L		11/06/23 12:50	11/06/23 20:36	1
Diesel Range Organics (Over C10-C28)	1.31	J	4.85	0.959	mg/L		11/06/23 12:50	11/06/23 20:36	1
OII Range Organics (Over C28-C36)	<0.926	U	4.85	0.926	mg/L		11/06/23 12:50	11/06/23 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 135*	*11/06/23 12:50*	*11/06/23 20:36*	*1*
o-Terphenyl	*111*		*70 - 135*	*11/06/23 12:50*	*11/06/23 20:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1260		5.00	2.50	mg/L			11/07/23 05:09	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0462		0.0200	0.00345	mg/L		11/06/23 10:00	11/06/23 16:15	5
Barium	0.317		0.0200	0.00671	mg/L		11/06/23 10:00	11/06/23 16:15	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 10:00	11/06/23 16:15	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	4780		40.0	40.0	mg/L			11/06/23 09:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 08:38	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MWD-13-W-20231101

Date Collected: 11/01/23 10:55
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			11/03/23 20:21	1
Toluene	<0.000367	~~U *1~~ UJ	0.00200	0.000367	mg/L			11/03/23 20:21	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 20:21	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			11/03/23 20:21	1
o-Xylene	<0.000642	~~U *1~~ UJ	0.00200	0.000642	mg/L			11/03/23 20:21	1
Xylenes, Total	<0.000642	U ~~*1~~	0.00400	0.000642	mg/L			11/03/23 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/03/23 20:21*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*		*11/03/23 20:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			11/03/23 20:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.953	U	4.82	0.953	mg/L			11/07/23 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.953	U	4.82	0.953	mg/L		11/06/23 12:50	11/07/23 15:18	1
Diesel Range Organics (Over C10-C28)	<0.953	U	4.82	0.953	mg/L		11/06/23 12:50	11/07/23 15:18	1
OII Range Organics (Over C28-C36)	<0.920	U	4.82	0.920	mg/L		11/06/23 12:50	11/07/23 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 135*	*11/06/23 12:50*	*11/07/23 15:18*	*1*
o-Terphenyl	*111*		*70 - 135*	*11/06/23 12:50*	*11/07/23 15:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**386**		0.500	0.250	mg/L			11/07/23 05:21	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0469**		0.00400	0.000690	mg/L		11/07/23 10:00	11/08/23 01:13	1
Barium	**0.133**		0.00400	0.00134	mg/L		11/07/23 10:00	11/08/23 01:13	1
Chromium	**0.00350**	**J**	0.00400	0.000560	mg/L		11/07/23 10:00	11/08/23 01:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**10400**		100	100	mg/L			11/06/23 09:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 08:38	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MW-26-W-20231101

Date Collected: 11/01/23 12:00
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.198**		0.0200	0.00408	mg/L			11/03/23 22:29	10
Toluene	<0.00367	~~U~~ *1 UJ	0.0200	0.00367	mg/L			11/03/23 22:29	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			11/03/23 22:29	10
m-Xylene & p-Xylene	**0.0174**	**J**	0.0400	0.00629	mg/L			11/03/23 22:29	10
o-Xylene	**0.00857**	**J *1**	0.0200	0.00642	mg/L			11/03/23 22:29	10
Xylenes, Total	**0.0260**	**J *1**	0.0400	0.00642	mg/L			11/03/23 22:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*11/03/23 22:29*	*10*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*		*11/03/23 22:29*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.224**		0.0400	0.00657	mg/L			11/03/23 22:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**5.55**		4.97	0.981	mg/L			11/06/23 20:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.77**	**J**	4.97	0.981	mg/L		11/06/23 12:50	11/06/23 20:56	1
Diesel Range Organics (Over C10-C28)	**3.78**	**J**	4.97	0.981	mg/L		11/06/23 12:50	11/06/23 20:56	1
OII Range Organics (Over C28-C36)	<0.947	U	4.97	0.947	mg/L		11/06/23 12:50	11/06/23 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 135*	*11/06/23 12:50*	*11/06/23 20:56*	*1*
o-Terphenyl	*112*		*70 - 135*	*11/06/23 12:50*	*11/06/23 20:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**133**		0.500	0.250	mg/L			11/06/23 18:47	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0586**		0.0200	0.00345	mg/L		11/06/23 10:00	11/06/23 16:31	5
Barium	**4.76**		0.200	0.0671	mg/L		11/06/23 10:00	11/06/23 16:50	50
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 10:00	11/06/23 16:31	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1300**		10.0	10.0	mg/L			11/06/23 09:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 08:38	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MW-11-W-20231101

Lab Sample ID: 880-35199-6
Matrix: Water
Date Collected: 11/01/23 13:00
Date Received: 11/02/23 08:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.552**		0.0200	0.00408	mg/L			11/03/23 22:54	10
Toluene	<0.00367	U *1 UJ	0.0200	0.00367	mg/L			11/03/23 22:54	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			11/03/23 22:54	10
m-Xylene & p-Xylene	**0.0731**		0.0400	0.00629	mg/L			11/03/23 22:54	10
o-Xylene	**0.00966**	J *1	0.0200	0.00642	mg/L			11/03/23 22:54	10
Xylenes, Total	**0.0828**	*1	0.0400	0.00642	mg/L			11/03/23 22:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*11/03/23 22:54*	*10*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*		*11/03/23 22:54*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.635**		0.0400	0.00657	mg/L			11/03/23 22:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3.18**	**J**	4.64	0.918	mg/L			11/06/23 21:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**3.18**	**J**	4.64	0.918	mg/L		11/06/23 12:50	11/06/23 21:57	1
Diesel Range Organics (Over C10-C28)	<0.918	U	4.64	0.918	mg/L		11/06/23 12:50	11/06/23 21:57	1
OII Range Organics (Over C28-C36)	<0.886	U	4.64	0.886	mg/L		11/06/23 12:50	11/06/23 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 135*	*11/06/23 12:50*	*11/06/23 21:57*	*1*
o-Terphenyl	*104*		*70 - 135*	*11/06/23 12:50*	*11/06/23 21:57*	*1*

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0332**		0.0200	0.00345	mg/L		11/06/23 10:00	11/06/23 16:34	5
Barium	**1.69**		0.0200	0.00671	mg/L		11/06/23 10:00	11/06/23 16:34	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 10:00	11/06/23 16:34	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1210**		20.0	20.0	mg/L			11/06/23 09:34	1

Client Sample ID: MW-24-W-20231101

Lab Sample ID: 880-35199-7
Matrix: Water
Date Collected: 11/01/23 13:20
Date Received: 11/02/23 08:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**15.3**		0.200	0.0408	mg/L			11/05/23 08:37	100
Toluene	<0.0367	U	0.200	0.0367	mg/L			11/05/23 08:37	100
Ethylbenzene	**0.0834**	**J**	0.200	0.0657	mg/L			11/05/23 08:37	100
m-Xylene & p-Xylene	**0.0751**	**J**	0.400	0.0629	mg/L			11/05/23 08:37	100
o-Xylene	<0.0642	U	0.200	0.0642	mg/L			11/05/23 08:37	100

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MW-24-W-20231101

Lab Sample ID: 880-35199-7
Matrix: Water
Date Collected: 11/01/23 13:20
Date Received: 11/02/23 08:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.0751	J	0.400	0.0642	mg/L			11/05/23 08:37	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*11/05/23 08:37*	*100*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*		*11/05/23 08:37*	*100*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	15.5		0.400	0.0657	mg/L			11/05/23 08:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.2		4.66	0.920	mg/L			11/06/23 22:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.2		4.66	0.920	mg/L		11/06/23 12:50	11/06/23 22:17	1
Diesel Range Organics (Over C10-C28)	<0.920	U	4.66	0.920	mg/L		11/06/23 12:50	11/06/23 22:17	1
OII Range Organics (Over C28-C36)	<0.888	U	4.66	0.888	mg/L		11/06/23 12:50	11/06/23 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 135*	*11/06/23 12:50*	*11/06/23 22:17*	*1*
o-Terphenyl	*112*		*70 - 135*	*11/06/23 12:50*	*11/06/23 22:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	241		0.500	0.250	mg/L			11/07/23 05:46	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0306		0.0200	0.00345	mg/L		11/06/23 10:00	11/06/23 16:36	5
Barium	3.32		0.200	0.0671	mg/L		11/06/23 10:00	11/06/23 16:52	50
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 10:00	11/06/23 16:36	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1560		20.0	20.0	mg/L			11/06/23 09:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 08:38	1

Client Sample ID: MW-25-W-20231101

Lab Sample ID: 880-35199-8
Matrix: Water
Date Collected: 11/01/23 13:45
Date Received: 11/02/23 08:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.257	J	0.00200	0.000408	mg/L			11/03/23 20:47	1
Toluene	0.000531	J *1	0.00200	0.000367	mg/L			11/03/23 20:47	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 20:47	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MW-25-W-20231101

Lab Sample ID: 880-35199-8
Matrix: Water
Date Collected: 11/01/23 13:45
Date Received: 11/02/23 08:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.00169	J	0.00400	0.000629	mg/L			11/03/23 20:47	1
o-Xylene	0.000928	J *1	0.00200	0.000642	mg/L			11/03/23 20:47	1
Xylenes, Total	0.00262	J *1	0.00400	0.000642	mg/L			11/03/23 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*		*11/03/23 20:47*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*		*11/03/23 20:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.260		0.00400	0.000657	mg/L			11/03/23 20:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.16	J	4.72	0.932	mg/L			11/07/23 06:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.16	J	4.72	0.932	mg/L		11/06/23 12:50	11/07/23 06:03	1
Diesel Range Organics (Over C10-C28)	<0.932	U	4.72	0.932	mg/L		11/06/23 12:50	11/07/23 06:03	1
OII Range Organics (Over C28-C36)	<0.900	U	4.72	0.900	mg/L		11/06/23 12:50	11/07/23 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 135*	*11/06/23 12:50*	*11/07/23 06:03*	*1*
o-Terphenyl	*105*		*70 - 135*	*11/06/23 12:50*	*11/07/23 06:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2030		5.00	2.50	mg/L			11/07/23 06:24	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00778	J	0.0200	0.00345	mg/L		11/06/23 10:00	11/06/23 16:38	5
Barium	1.17		0.0200	0.00671	mg/L		11/06/23 10:00	11/06/23 16:38	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 10:00	11/06/23 16:38	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	6660		100	100	mg/L			11/06/23 09:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 08:38	1

Client Sample ID: MWD-15-W-20231101

Lab Sample ID: 880-35199-9
Matrix: Water
Date Collected: 11/01/23 14:00
Date Received: 11/02/23 08:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00197	J	0.00200	0.000408	mg/L			11/05/23 06:34	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MWD-15-W-20231101

Date Collected: 11/01/23 14:00
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/05/23 06:34	1
Ethylbenzene	**0.00162**	~~J F1 F2~~ J	0.00200	0.000657	mg/L			11/05/23 06:34	1
m-Xylene & p-Xylene	**0.00282**	~~J F1 F2~~	0.00400	0.000629	mg/L			11/05/23 06:34	1
o-Xylene	**0.00255**	~~F1 F2~~	0.00200	0.000642	mg/L			11/05/23 06:34	1
Xylenes, Total	**0.00537**	~~F1 F2~~	0.00400	0.000642	mg/L			11/05/23 06:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/05/23 06:34*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*		*11/05/23 06:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00896**		0.00400	0.000657	mg/L			11/05/23 06:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.932	U	4.72	0.932	mg/L			11/07/23 06:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.932	U	4.72	0.932	mg/L		11/06/23 12:50	11/07/23 06:24	1
Diesel Range Organics (Over C10-C28)	<0.932	U	4.72	0.932	mg/L		11/06/23 12:50	11/07/23 06:24	1
OII Range Organics (Over C28-C36)	<0.900	U	4.72	0.900	mg/L		11/06/23 12:50	11/07/23 06:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 135*	*11/06/23 12:50*	*11/07/23 06:24*	*1*
o-Terphenyl	*106*		*70 - 135*	*11/06/23 12:50*	*11/07/23 06:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1010**		5.00	2.50	mg/L			11/07/23 06:49	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00647**	**J**	0.0200	0.00345	mg/L		11/06/23 10:00	11/06/23 16:41	5
Barium	**2.42**		0.0200	0.00671	mg/L		11/06/23 10:00	11/06/23 16:41	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 10:00	11/06/23 16:41	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**2860**		40.0	40.0	mg/L			11/06/23 09:41	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 08:38	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MW-17-W-20231101

Date Collected: 11/01/23 14:20
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			11/05/23 06:55	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/05/23 06:55	1
Ethylbenzene	**0.000812**	**J**	0.00200	0.000657	mg/L			11/05/23 06:55	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			11/05/23 06:55	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			11/05/23 06:55	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			11/05/23 06:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*11/05/23 06:55*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*		*11/05/23 06:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.000812**	**J**	0.00400	0.000657	mg/L			11/05/23 06:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.950	U	4.81	0.950	mg/L			11/07/23 06:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.950	U	4.81	0.950	mg/L		11/06/23 12:50	11/07/23 06:52	1
Diesel Range Organics (Over C10-C28)	<0.950	U	4.81	0.950	mg/L		11/06/23 12:50	11/07/23 06:52	1
OII Range Organics (Over C28-C36)	<0.917	U	4.81	0.917	mg/L		11/06/23 12:50	11/07/23 06:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 135*	*11/06/23 12:50*	*11/07/23 06:52*	*1*
o-Terphenyl	*110*		*70 - 135*	*11/06/23 12:50*	*11/07/23 06:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**751**		5.00	2.50	mg/L			11/07/23 07:40	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00839**		0.00400	0.000690	mg/L		11/07/23 10:00	11/08/23 01:15	1
Barium	**0.100**		0.00400	0.00134	mg/L		11/07/23 10:00	11/08/23 01:15	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		11/07/23 10:00	11/08/23 01:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3270**		40.0	40.0	mg/L			11/06/23 09:41	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 09:48	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MWD-14-W-20231101

Date Collected: 11/01/23 14:45
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.53**	D	0.0200	0.00408	mg/L			11/14/23 01:39	10
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/05/23 07:15	1
Ethylbenzene	**0.104**		0.00200	0.000657	mg/L			11/05/23 07:15	1
m-Xylene & p-Xylene	**0.00747**		0.00400	0.000629	mg/L			11/05/23 07:15	1
o-Xylene	**0.00135**	**J**	0.00200	0.000642	mg/L			11/05/23 07:15	1
Xylenes, Total	**0.00882**		0.00400	0.000642	mg/L			11/05/23 07:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*11/05/23 07:15*	*1*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*		*11/05/23 07:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.64**		0.00400	0.000657	mg/L			11/14/23 01:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2.66**	**J**	4.89	0.965	mg/L			11/07/23 07:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2.66**	**J**	4.89	0.965	mg/L		11/06/23 12:50	11/07/23 07:12	1
Diesel Range Organics (Over C10-C28)	<0.965	U	4.89	0.965	mg/L		11/06/23 12:50	11/07/23 07:12	1
OII Range Organics (Over C28-C36)	<0.932	U	4.89	0.932	mg/L		11/06/23 12:50	11/07/23 07:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 135*	*11/06/23 12:50*	*11/07/23 07:12*	*1*
o-Terphenyl	*112*		*70 - 135*	*11/06/23 12:50*	*11/07/23 07:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**474**		5.00	2.50	mg/L			11/07/23 08:05	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000690	U	0.00400	0.000690	mg/L		11/07/23 10:00	11/08/23 01:17	1
Barium	**0.689**		0.0400	0.0134	mg/L		11/07/23 10:00	11/08/23 01:26	10
Chromium	**0.000775**	**J**	0.00400	0.000560	mg/L		11/07/23 10:00	11/08/23 01:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4220**		40.0	40.0	mg/L			11/06/23 09:41	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 09:48	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: DUP-02-W-20231101

Date Collected: 11/01/23 14:45
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.52**	DJ	0.0200	0.00408	mg/L			11/14/23 01:59	10
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/05/23 07:36	1
Ethylbenzene	**0.0974**	J	0.00200	0.000657	mg/L			11/05/23 07:36	1
m-Xylene & p-Xylene	**0.00827**	J	0.00400	0.000629	mg/L			11/05/23 07:36	1
o-Xylene	**0.00169**	J	0.00200	0.000642	mg/L			11/05/23 07:36	1
Xylenes, Total	**0.00996**	J	0.00400	0.000642	mg/L			11/05/23 07:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*		*11/05/23 07:36*	*1*
1,4-Difluorobenzene (Surr)	*141*	*S1+*	*70 - 130*		*11/05/23 07:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.63**		0.00400	0.000657	mg/L			11/14/23 01:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2.43**	J	4.75	0.938	mg/L			11/07/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2.43**	J	4.75	0.938	mg/L		11/06/23 12:50	11/07/23 07:33	1
Diesel Range Organics (Over C10-C28)	<0.938	U	4.75	0.938	mg/L		11/06/23 12:50	11/07/23 07:33	1
OII Range Organics (Over C28-C36)	<0.905	U	4.75	0.905	mg/L		11/06/23 12:50	11/07/23 07:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 135*	*11/06/23 12:50*	*11/07/23 07:33*	*1*
o-Terphenyl	*107*		*70 - 135*	*11/06/23 12:50*	*11/07/23 07:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**446**		0.500	0.250	mg/L			11/04/23 10:52	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00345	U	0.0200	0.00345	mg/L		11/06/23 10:00	11/06/23 16:43	5
Barium	**0.871**		0.0200	0.00671	mg/L		11/06/23 10:00	11/06/23 16:43	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 10:00	11/06/23 16:43	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4260**		40.0	40.0	mg/L			11/06/23 09:41	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 09:48	1

Released to Imaging: 4/30/2024 10:08:36 AM
Received by OCD: 3/13/2024 8:36:42 PM

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins Environment Testing

35277

Client Information	Sampler: Michael Rodriguez	Lab PM: Builes John	Carrier Tracking No(s):	COC No: 880-7147-1023 1
Client Contact: ~~Sonja Zabienski~~ Nadja Cintron Fraqui	Phone: 432-944-3725	E-Mail: John Builes@et.eurofinsus com	State of Origin: NM	Page: Page 1 of 1
Company: ARCADIS US Inc	PWSID:	Analysis Requested		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			Preservation Codes: A HCL; B - NaOH; C Zn Acetate; D Nitric Acid; E NaHSO4; F MeOH; G Amchlor; H Ascorbic Acid; I Ice; J DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q Na2SO3; R Na2S2O3; S H2SO4; T TSP Dodecahydrate; U Acetone; V MCAA; W - pH 4-5; Y Trizma; Z - other (specify); Other:
City: Midland	TAT Requested (days): Standard			
State Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 439-489-2339	PO #: Purchase Order not required			
Email: Nadja.CintronFraqui@arcadis.com ~~sonja.zabienski@arcadis.com~~	WO #:			
Project Name: Eunice South	Project #: 88000209			
Site: Lea County, NM	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	6020A - (MOD) Custom List	2540C_Calcd - Local Method	8015MOD_NM - (MOD) Full TPH	8021B - BTEX	7196A - Local Method	Total Number of containers	Special Instructions/Note
Preservation Code:							N	D	N	A	A	N		
MWD-3-W-20231102	11/02/23	1100	G	Water	N	N	X	X	X	X	X	X	4	
				Water										
				Water										
				Water										
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				Water										

880-35277 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:			
Relinquished by: Michael Rodriguez	Date/Time: 11/03/23	Company: Arcadis	Received by:	Date/Time: 11/3/23 842	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.4 | 1.8

Ver: 01/16/2019

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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.
¤	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)

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

Client Sample ID: MWD-3-W-20231102

Date Collected: 11/02/23 11:00
Date Received: 11/03/23 08:42

Lab Sample ID: 880-35277-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.27**	DJ	0.0500	0.0102	mg/L			11/05/23 10:12	25
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/05/23 07:56	1
Ethylbenzene	**0.00244**	J	0.00200	0.000657	mg/L			11/05/23 07:56	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			11/05/23 07:56	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			11/05/23 07:56	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			11/05/23 07:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*11/05/23 07:56*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/05/23 10:12*	*25*
1,4-Difluorobenzene (Surr)	*155*	*S1+*	*70 - 130*		*11/05/23 07:56*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*11/05/23 10:12*	*25*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.27**		0.00400	0.000657	mg/L			11/05/23 10:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2.20**	**J**	4.93	0.975	mg/L			11/06/23 21:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2.20**	**J**	4.93	0.975	mg/L		11/06/23 12:53	11/06/23 21:16	1
Diesel Range Organics (Over C10-C28)	<0.975	U	4.93	0.975	mg/L		11/06/23 12:53	11/06/23 21:16	1
OII Range Organics (Over C28-C36)	<0.941	U	4.93	0.941	mg/L		11/06/23 12:53	11/06/23 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 135*	*11/06/23 12:53*	*11/06/23 21:16*	*1*
o-Terphenyl	*107*		*70 - 135*	*11/06/23 12:53*	*11/06/23 21:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18100**		50.0	25.0	mg/L			11/06/23 23:25	100

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0406**		0.00400	0.000690	mg/L		11/10/23 10:30	11/10/23 18:04	1
Barium	**3.12**		0.200	0.0671	mg/L		11/10/23 10:30	11/10/23 23:51	50
Chromium	**0.000899**	**J**	0.00400	0.000560	mg/L		11/10/23 10:30	11/10/23 18:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**32700**		200	200	mg/L			11/07/23 09:40	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/03/23 09:29	1

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Andrew DeMarco
ARCADIS U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 2/24/2023 8:51:27 PM Revision 2

JOB DESCRIPTION

Eunice Project-S.Eunice
SDG NUMBER 30049612

JOB NUMBER

880-11718-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 4/30/2024 10:08:36 AM

my EOL

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
2/24/2023 8:51:27 PM
Revision 2

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 880-11718-1
Project/Site: Eunice Project-S.Eunice SDG: 30049612

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
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.
¤	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)

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Job ID: 880-11718-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-11718-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 3/10/2022. The report (revision 1) is being revised due to: Revised report to correct client sample Id per client request..

Receipt
The samples were received on 2/24/2022 5:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.9º C.

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: MW-14-W-220224 (880-11718-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-20376 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-20710 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: MW-9-W-220224 (880-11718-3), WW-7-W-220224 (880-11718-4), WW-2-W-220224 (880-11718-5) and MW-29-W-220224 (880-11718-6) at 10.0, 10.0, 10.0 and 10.0. Elevated reporting limits (RLs) are provided.

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

GC Semi VOA
Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (880-11679-B-14-B). Evidence of matrix interferences is not obvious.

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

Metals
Method 6020A: The following sample(s) was diluted due to a high presence of Sodium, which interferes with the Internal Standards. Elevated reporting limits (RLs) are provided for Arsenic.

Method 6020A: The following sample(s) was diluted due to the presence of Sodium which interfered with the Internal Standard. Elevated reporting limits (RLs) are provided for Chromium and Manganese.

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

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 7196A: The following sample(s) was analyzed within analytical holding time. Flag due to to time zone change.

Method 7196A: The sample did not display the appropriate color change for hexavalent chromium, the recovery of .0041 is due to a possible iron interferent, therefore the data was reported as 0.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Job ID: 880-11718-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Dup03-W-220224 (880-11718-10)

Method 7196A: The sample did not display the appropriate color change for hexavalent chromium, the recovery of .0051 is due to a possible iron interferent, therefore the data was reported as 0.

WW-2-W-220224 (880-11718-5)

Method 7196A: The sample did not display the appropriate color change for hexavalent chromium, the recovery of .0524 is due to a possible iron interferent, therefore the data was reported as 0.
MW-29-W-220224 (880-11718-6)

Method 7196A: The sample did not display the appropriate color change for hexavalent chromium, the recovery of .0090 is due to a possible iron interferent, therefore the data was reported as 0.

MW-34-W-220224 (880-11718-8)

Method 7196A: The sample did not display the appropriate color change for hexavalent chromium, the recovery of .0056 is due to a possible iron interferent, therefore the data was reported as 0.

MWD-15-W-220224 (880-11718-11)

Method 7196A: The sample did not display the appropriate color change for hexavalent chromium, the recovery of .0120 is due to a possible iron interferent, therefore the data was reported as 0.

RW-6-W-220224 (880-11718-19)

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

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

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

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MW-14-W-220224

Date Collected: 02/24/22 07:52
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/01/22 19:47	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/01/22 19:47	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/01/22 19:47	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/01/22 19:47	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/01/22 19:47	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/01/22 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*		*03/01/22 19:47*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*		*03/01/22 19:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.893	U	4.52	0.893	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.893	U	4.52	0.893	mg/L		02/28/22 10:10	02/28/22 14:28	1
Diesel Range Organics (Over C10-C28)	<0.893	U	4.52	0.893	mg/L		02/28/22 10:10	02/28/22 14:28	1
Oil Range Organics (Over C28-C36)	<0.862	U	4.52	0.862	mg/L		02/28/22 10:10	02/28/22 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*02/28/22 10:10*	*02/28/22 14:28*	*1*
o-Terphenyl	*110*		*70 - 130*	*02/28/22 10:10*	*02/28/22 14:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**558**		5.00	2.00	mg/L			03/04/22 22:22	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00867**		0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 15:51	1
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 15:51	1
Iron	**0.0757**	**J**	0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 15:51	1
Manganese	**0.555**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 15:51	1
Barium	**0.0983**		0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1820**		100	100	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U H	0.0100	0.00273	mg/L			02/25/22 08:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MW-30-W-220224

Date Collected: 02/24/22 08:29
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00119**	**J**	0.00200	0.000408	mg/L			03/01/22 20:14	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/01/22 20:14	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/01/22 20:14	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/01/22 20:14	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/01/22 20:14	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/01/22 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*03/01/22 20:14*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*		*03/01/22 20:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00119**	**J**	0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.885	U	4.48	0.885	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.885	U	4.48	0.885	mg/L		02/28/22 14:50	03/02/22 04:01	1
Diesel Range Organics (Over C10-C28)	<0.885	U	4.48	0.885	mg/L		02/28/22 14:50	03/02/22 04:01	1
Oil Range Organics (Over C28-C36)	<0.854	U	4.48	0.854	mg/L		02/28/22 14:50	03/02/22 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*02/28/22 14:50*	*03/02/22 04:01*	*1*
o-Terphenyl	*101*		*70 - 130*	*02/28/22 14:50*	*03/02/22 04:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**268**		5.00	2.00	mg/L			03/04/22 22:34	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00943**		0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 15:55	1
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 15:55	1
Iron	**0.177**		0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 15:55	1
Manganese	**0.492**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 15:55	1
Barium	**0.301**		0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1190**		100	100	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 08:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MW-9-W-220224

Date Collected: 02/24/22 09:12
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/03/22 02:46	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/22 02:46	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/22 02:46	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/22 02:46	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/22 02:46	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/22 02:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*03/03/22 02:46*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*		*03/03/22 02:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.887	U	4.49	0.887	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.887	U	4.49	0.887	mg/L		02/28/22 10:10	02/28/22 15:52	1
Diesel Range Organics (Over C10-C28)	<0.887	U	4.49	0.887	mg/L		02/28/22 10:10	02/28/22 15:52	1
Oil Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		02/28/22 10:10	02/28/22 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*02/28/22 10:10*	*02/28/22 15:52*	*1*
o-Terphenyl	*116*		*70 - 130*	*02/28/22 10:10*	*02/28/22 15:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**208**		0.500	0.200	mg/L			03/04/22 22:46	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00619**		0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 16:33	1
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 16:33	1
Iron	**0.0436**	**J**	0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 16:33	1
Manganese	**0.215**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 16:33	1
Barium	**6.57**	**E**	0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1150**		100	100	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 08:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: WW-7-W-220224

Date Collected: 02/24/22 09:39
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00944**		0.00200	0.000408	mg/L			03/03/22 21:24	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/22 21:24	1
Ethylbenzene	**0.00596**		0.00200	0.000657	mg/L			03/03/22 21:24	1
m-Xylene & p-Xylene	**0.0353**		0.00400	0.000629	mg/L			03/03/22 21:24	1
o-Xylene	**0.0104**		0.00200	0.000642	mg/L			03/03/22 21:24	1
Xylenes, Total	**0.0457**		0.00400	0.000642	mg/L			03/03/22 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*		*03/03/22 21:24*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*		*03/03/22 21:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0611**		0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**0.889**	**J**	4.49	0.887	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**0.889**	**J**	4.49	0.887	mg/L		02/28/22 10:10	02/28/22 16:12	1
Diesel Range Organics (Over C10-C28)	<0.887	U	4.49	0.887	mg/L		02/28/22 10:10	02/28/22 16:12	1
Oil Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		02/28/22 10:10	02/28/22 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*02/28/22 10:10*	*02/28/22 16:12*	*1*
o-Terphenyl	*122*		*70 - 130*	*02/28/22 10:10*	*02/28/22 16:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**248**		0.500	0.200	mg/L			03/04/22 23:46	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000775**	**J**	0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 16:55	1
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 16:55	1
Iron	**8.96**		0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 16:55	1
Manganese	**0.725**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 16:55	1
Barium	**0.463**		0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 16:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**416**		50.0	50.0	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 08:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: WW-2-W-220224

Date Collected: 02/24/22 10:16
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0429**		0.00200	0.000408	mg/L			03/03/22 21:51	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/22 21:51	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/22 21:51	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/22 21:51	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/22 21:51	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/22 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*03/03/22 21:51*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*		*03/03/22 21:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0429**		0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.895	U	4.53	0.895	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.895	U	4.53	0.895	mg/L		02/28/22 10:10	02/28/22 16:33	1
Diesel Range Organics (Over C10-C28)	<0.895	U	4.53	0.895	mg/L		02/28/22 10:10	02/28/22 16:33	1
Oil Range Organics (Over C28-C36)	<0.864	U	4.53	0.864	mg/L		02/28/22 10:10	02/28/22 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*02/28/22 10:10*	*02/28/22 16:33*	*1*
o-Terphenyl	*124*		*70 - 130*	*02/28/22 10:10*	*02/28/22 16:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**672**		5.00	2.00	mg/L			03/08/22 11:41	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00150**	**J**	0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 16:59	1
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 16:59	1
Iron	**2.58**		0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 16:59	1
Manganese	**0.307**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 16:59	1
Barium	**2.94**	**E**	0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 16:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1160**		100	100	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 08:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MW-29-W-220224

Date Collected: 02/24/22 10:56
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/04/22 06:00	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/04/22 06:00	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/04/22 06:00	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/04/22 06:00	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/04/22 06:00	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/04/22 06:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*03/04/22 06:00*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*		*03/04/22 06:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2.33**	**J**	4.50	0.890	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2.33**	**J**	4.50	0.890	mg/L		02/28/22 10:10	02/28/22 16:53	1
Diesel Range Organics (Over C10-C28)	<0.890	U	4.50	0.890	mg/L		02/28/22 10:10	02/28/22 16:53	1
Oil Range Organics (Over C28-C36)	<0.859	U	4.50	0.859	mg/L		02/28/22 10:10	02/28/22 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*02/28/22 10:10*	*02/28/22 16:53*	*1*
o-Terphenyl	*109*		*70 - 130*	*02/28/22 10:10*	*02/28/22 16:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**356**		5.00	2.00	mg/L			03/05/22 00:34	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00276**	**J**	0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 17:02	1
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 17:02	1
Iron	**9.66**		0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 17:02	1
Manganese	**0.132**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 17:02	1
Barium	**7.50**	**E**	0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 17:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1370**		100	100	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 08:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MW-8-W-220224

Date Collected: 02/24/22 11:29
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/04/22 02:50	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/04/22 02:50	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/04/22 02:50	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/04/22 02:50	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/04/22 02:50	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/04/22 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*		*03/04/22 02:50*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*		*03/04/22 02:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.895	U	4.53	0.895	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.895	U	4.53	0.895	mg/L		02/28/22 10:10	02/28/22 17:14	1
Diesel Range Organics (Over C10-C28)	<0.895	U	4.53	0.895	mg/L		02/28/22 10:10	02/28/22 17:14	1
Oil Range Organics (Over C28-C36)	<0.864	U	4.53	0.864	mg/L		02/28/22 10:10	02/28/22 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*02/28/22 10:10*	*02/28/22 17:14*	*1*
o-Terphenyl	*126*		*70 - 130*	*02/28/22 10:10*	*02/28/22 17:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**714**		5.00	2.00	mg/L			03/05/22 00:46	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0299**		0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 17:05	1
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 17:05	1
Iron	**2.89**		0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 17:05	1
Manganese	**0.413**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 17:05	1
Barium	**0.0767**		0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 17:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**2290**		200	200	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 08:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MW-34-W-220224

Date Collected: 02/24/22 12:09
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/04/22 04:12	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/04/22 04:12	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/04/22 04:12	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/04/22 04:12	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/04/22 04:12	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/04/22 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*03/04/22 04:12*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*		*03/04/22 04:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2.48**	**J**	4.52	0.893	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.43**	**J**	4.52	0.893	mg/L		02/28/22 10:10	02/28/22 17:36	1
Diesel Range Organics (Over C10-C28)	**1.05**	**J**	4.52	0.893	mg/L		02/28/22 10:10	02/28/22 17:36	1
Oil Range Organics (Over C28-C36)	<0.862	U	4.52	0.862	mg/L		02/28/22 10:10	02/28/22 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*02/28/22 10:10*	*02/28/22 17:36*	*1*
o-Terphenyl	*113*		*70 - 130*	*02/28/22 10:10*	*02/28/22 17:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**261**		5.00	2.00	mg/L			03/05/22 00:58	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00105**	**J**	0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 17:08	1
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 17:08	1
Iron	**5.56**		0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 17:08	1
Manganese	**0.116**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 17:08	1
Barium	**4.41**	**E**	0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 17:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1520**		100	100	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 08:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MWD-6-W-220224

Date Collected: 02/24/22 12:57
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/04/22 04:39	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/04/22 04:39	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/04/22 04:39	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/04/22 04:39	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/04/22 04:39	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/04/22 04:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*03/04/22 04:39*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*		*03/04/22 04:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.895	U	4.53	0.895	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.895	U	4.53	0.895	mg/L		02/28/22 10:10	02/28/22 17:57	1
Diesel Range Organics (Over C10-C28)	<0.895	U	4.53	0.895	mg/L		02/28/22 10:10	02/28/22 17:57	1
Oil Range Organics (Over C28-C36)	<0.864	U	4.53	0.864	mg/L		02/28/22 10:10	02/28/22 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*02/28/22 10:10*	*02/28/22 17:57*	*1*
o-Terphenyl	*110*		*70 - 130*	*02/28/22 10:10*	*02/28/22 17:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**166**		0.500	0.200	mg/L			03/05/22 01:10	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00390**	**J**	0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 17:11	1
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 17:11	1
Iron	**1.39**		0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 17:11	1
Manganese	**0.257**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 17:11	1
Barium	**1.13**		0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 17:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1100**		100	100	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 08:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: Dup03-W-220224

Date Collected: 02/24/22 00:00
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/04/22 05:06	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/04/22 05:06	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/04/22 05:06	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/04/22 05:06	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/04/22 05:06	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/04/22 05:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*		*03/04/22 05:06*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*		*03/04/22 05:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2.15**	**J**	4.46	0.882	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.08**	**J**	4.46	0.882	mg/L		02/28/22 10:10	02/28/22 18:18	1
Diesel Range Organics (Over C10-C28)	**1.07**	**J**	4.46	0.882	mg/L		02/28/22 10:10	02/28/22 18:18	1
Oil Range Organics (Over C28-C36)	<0.851	U	4.46	0.851	mg/L		02/28/22 10:10	02/28/22 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*02/28/22 10:10*	*02/28/22 18:18*	*1*
o-Terphenyl	*118*		*70 - 130*	*02/28/22 10:10*	*02/28/22 18:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**252**		5.00	2.00	mg/L			03/05/22 01:22	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000995**	**J**	0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 17:15	1
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 17:15	1
Iron	**5.44**		0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 17:15	1
Manganese	**0.114**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 17:15	1
Barium	**4.38**	**E**	0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 17:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1570**		100	100	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U H	0.0100	0.00273	mg/L			02/25/22 08:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MWD-15-W-220224

Date Collected: 02/24/22 09:35
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/04/22 05:33	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/04/22 05:33	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/04/22 05:33	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/04/22 05:33	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/04/22 05:33	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/04/22 05:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*03/04/22 05:33*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*		*03/04/22 05:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3.57**	**J**	4.46	0.882	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2.40**	**J**	4.46	0.882	mg/L		02/28/22 10:10	02/28/22 19:00	1
Diesel Range Organics (Over C10-C28)	**1.17**	**J**	4.46	0.882	mg/L		02/28/22 10:10	02/28/22 19:00	1
Oil Range Organics (Over C28-C36)	<0.851	U	4.46	0.851	mg/L		02/28/22 10:10	02/28/22 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*02/28/22 10:10*	*02/28/22 19:00*	*1*
o-Terphenyl	*119*		*70 - 130*	*02/28/22 10:10*	*02/28/22 19:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1280**		5.00	2.00	mg/L			03/05/22 01:34	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00676**		0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 17:18	1
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 17:18	1
Iron	**8.45**		0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 17:18	1
Manganese	**0.106**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 17:18	1
Barium	**2.89**	**E**	0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 17:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4240**		200	200	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 09:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MWD-1-W-220224

Date Collected: 02/24/22 10:08
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/04/22 03:17	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/04/22 03:17	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/04/22 03:17	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/04/22 03:17	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/04/22 03:17	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/04/22 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*		*03/04/22 03:17*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*03/04/22 03:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.895	U	4.53	0.895	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.895	U	4.53	0.895	mg/L		02/28/22 10:10	02/28/22 19:22	1
Diesel Range Organics (Over C10-C28)	<0.895	U	4.53	0.895	mg/L		02/28/22 10:10	02/28/22 19:22	1
Oil Range Organics (Over C28-C36)	<0.864	U	4.53	0.864	mg/L		02/28/22 10:10	02/28/22 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*02/28/22 10:10*	*02/28/22 19:22*	*1*
o-Terphenyl	*114*		*70 - 130*	*02/28/22 10:10*	*02/28/22 19:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**465**		5.00	2.00	mg/L			03/05/22 02:10	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0416**		0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 17:21	1
Chromium	**0.00305**	**J**	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 17:21	1
Iron	<0.0227	U	0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 17:21	1
Manganese	**0.00982**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 17:21	1
Barium	**0.0477**		0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 17:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1560**		100	100	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 09:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MW-17-W-220224

Date Collected: 02/24/22 10:45
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/04/22 03:44	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/04/22 03:44	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/04/22 03:44	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/04/22 03:44	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/04/22 03:44	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/04/22 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*		*03/04/22 03:44*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*		*03/04/22 03:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.895	U	4.53	0.895	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.895	U	4.53	0.895	mg/L		02/28/22 10:10	02/28/22 19:43	1
Diesel Range Organics (Over C10-C28)	<0.895	U	4.53	0.895	mg/L		02/28/22 10:10	02/28/22 19:43	1
Oil Range Organics (Over C28-C36)	<0.864	U	4.53	0.864	mg/L		02/28/22 10:10	02/28/22 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*02/28/22 10:10*	*02/28/22 19:43*	*1*
o-Terphenyl	*118*		*70 - 130*	*02/28/22 10:10*	*02/28/22 19:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**874**		5.00	2.00	mg/L			03/05/22 02:22	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00967**		0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 17:24	1
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 17:24	1
Iron	**0.241**		0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 17:24	1
Manganese	**0.415**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 17:24	1
Barium	**0.156**		0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 17:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**2190**		200	200	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 09:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MWD-7-W-220224

Date Collected: 02/24/22 11:10
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/03/22 12:07	1
Toluene	<0.000367	U F1	0.00200	0.000367	mg/L			03/03/22 12:07	1
Ethylbenzene	<0.000657	U F1	0.00200	0.000657	mg/L			03/03/22 12:07	1
m-Xylene & p-Xylene	<0.000629	U F1	0.00400	0.000629	mg/L			03/03/22 12:07	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/22 12:07	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/22 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*03/03/22 12:07*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*		*03/03/22 12:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.898	U	4.55	0.898	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.898	U	4.55	0.898	mg/L		02/28/22 10:10	02/28/22 20:04	1
Diesel Range Organics (Over C10-C28)	<0.898	U	4.55	0.898	mg/L		02/28/22 10:10	02/28/22 20:04	1
Oil Range Organics (Over C28-C36)	<0.867	U	4.55	0.867	mg/L		02/28/22 10:10	02/28/22 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*02/28/22 10:10*	*02/28/22 20:04*	*1*
o-Terphenyl	*116*		*70 - 130*	*02/28/22 10:10*	*02/28/22 20:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7120**		50.0	20.0	mg/L			03/05/22 02:34	100

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0147**		0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 17:34	1
Chromium	<0.00525	U	0.0400	0.00525	mg/L		03/01/22 09:25	03/01/22 18:18	10
Iron	<0.227	U	1.00	0.227	mg/L		03/01/22 09:25	03/02/22 13:45	10
Manganese	**0.242**		0.0200	0.00199	mg/L		03/01/22 09:25	03/01/22 18:18	10
Barium	**0.0458**		0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 17:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**10800**		500	500	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 09:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MWD-3-W-220224

Date Collected: 02/24/22 11:45
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.95**		0.200	0.0408	mg/L			03/04/22 07:50	100
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/22 13:53	1
Ethylbenzene	**0.00139**	**J**	0.00200	0.000657	mg/L			03/03/22 13:53	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/22 13:53	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/22 13:53	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/22 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*03/03/22 13:53*	*1*
1,4-Difluorobenzene (Surr)	*162*	*S1+*	*70 - 130*		*03/03/22 13:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.95**		0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1.65**	**J**	4.49	0.887	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.65**	**J**	4.49	0.887	mg/L		02/28/22 10:10	02/28/22 20:25	1
Diesel Range Organics (Over C10-C28)	<0.887	U	4.49	0.887	mg/L		02/28/22 10:10	02/28/22 20:25	1
Oil Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		02/28/22 10:10	02/28/22 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*02/28/22 10:10*	*02/28/22 20:25*	*1*
o-Terphenyl	*120*		*70 - 130*	*02/28/22 10:10*	*02/28/22 20:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20500**		50.0	20.0	mg/L			03/05/22 03:46	100

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0489**		0.0400	0.00246	mg/L		03/01/22 09:25	03/01/22 18:21	10
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 17:37	1
Iron	**7.14**		0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 17:37	1
Manganese	**0.225**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 17:37	1
Barium	**3.07**		0.0400	0.00484	mg/L		03/01/22 09:25	03/01/22 18:21	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**33000**		1000	1000	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 09:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MWD-17-W-220224

Date Collected: 02/24/22 12:45
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-16

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0238**		0.00200	0.000408	mg/L			03/03/22 14:20	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/22 14:20	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/22 14:20	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/22 14:20	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/22 14:20	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/22 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/03/22 14:20*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*		*03/03/22 14:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0238**		0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1.52**	**J**	4.49	0.887	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.52**	**J**	4.49	0.887	mg/L		02/28/22 10:10	02/28/22 20:46	1
Diesel Range Organics (Over C10-C28)	<0.887	U	4.49	0.887	mg/L		02/28/22 10:10	02/28/22 20:46	1
Oil Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		02/28/22 10:10	02/28/22 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*02/28/22 10:10*	*02/28/22 20:46*	*1*
o-Terphenyl	*119*		*70 - 130*	*02/28/22 10:10*	*02/28/22 20:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5520**		50.0	20.0	mg/L			03/05/22 03:58	100

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0596**		0.0400	0.00246	mg/L		03/01/22 09:25	03/01/22 18:25	10
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 17:40	1
Iron	**2.97**		0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 17:40	1
Manganese	**0.153**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 17:40	1
Barium	**0.325**		0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 17:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**11400**		500	500	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 09:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MW-22-W-220224

Date Collected: 02/24/22 12:08
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-17

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00169**	**J**	0.00200	0.000408	mg/L			03/03/22 14:46	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/22 14:46	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/22 14:46	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/22 14:46	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/22 14:46	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/22 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*03/03/22 14:46*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*		*03/03/22 14:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00169**	**J**	0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1.34**	**J**	4.48	0.885	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.34**	**J**	4.48	0.885	mg/L		02/28/22 10:10	02/28/22 21:07	1
Diesel Range Organics (Over C10-C28)	<0.885	U	4.48	0.885	mg/L		02/28/22 10:10	02/28/22 21:07	1
Oil Range Organics (Over C28-C36)	<0.854	U	4.48	0.854	mg/L		02/28/22 10:10	02/28/22 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*02/28/22 10:10*	*02/28/22 21:07*	*1*
o-Terphenyl	*126*		*70 - 130*	*02/28/22 10:10*	*02/28/22 21:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2510**		5.00	2.00	mg/L			03/05/22 04:10	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0451**		0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 17:43	1
Chromium	**0.000999**	**J**	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 17:43	1
Iron	**4.57**		0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 17:43	1
Manganese	**0.0246**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 17:43	1
Barium	**1.05**		0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 17:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**6620**		500	500	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 09:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: RW-7-W-220224

Date Collected: 02/24/22 13:20
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-18

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/03/22 12:34	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/22 12:34	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/22 12:34	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/22 12:34	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/22 12:34	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/22 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*9*	*S1-*	*70 - 130*		*03/03/22 12:34*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*		*03/03/22 12:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.885	U	4.48	0.885	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.885	U	4.48	0.885	mg/L		02/28/22 10:10	02/28/22 21:29	1
Diesel Range Organics (Over C10-C28)	<0.885	U	4.48	0.885	mg/L		02/28/22 10:10	02/28/22 21:29	1
Oil Range Organics (Over C28-C36)	<0.854	U	4.48	0.854	mg/L		02/28/22 10:10	02/28/22 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*02/28/22 10:10*	*02/28/22 21:29*	*1*
o-Terphenyl	*126*		*70 - 130*	*02/28/22 10:10*	*02/28/22 21:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3210**		5.00	2.00	mg/L			03/05/22 04:22	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00670**		0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 17:47	1
Chromium	**0.000917**	**J**	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 17:47	1
Iron	<0.0227	U	0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 17:47	1
Manganese	**0.0330**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 17:47	1
Barium	**0.0762**		0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 17:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**8230**		500	500	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 09:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: RW-6-W-220224

Date Collected: 02/24/22 13:48
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-19

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/03/22 15:13	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/22 15:13	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/22 15:13	1
m-Xylene & p-Xylene	**0.00236**	**J**	0.00400	0.000629	mg/L			03/03/22 15:13	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/22 15:13	1
Xylenes, Total	**0.00236**	**J**	0.00400	0.000642	mg/L			03/03/22 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*03/03/22 15:13*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*		*03/03/22 15:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00236**	**J**	0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2.42**	**J**	4.45	0.880	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.32**	**J**	4.45	0.880	mg/L		02/28/22 10:10	02/28/22 21:51	1
Diesel Range Organics (Over C10-C28)	**1.10**	**J**	4.45	0.880	mg/L		02/28/22 10:10	02/28/22 21:51	1
Oil Range Organics (Over C28-C36)	<0.849	U	4.45	0.849	mg/L		02/28/22 10:10	02/28/22 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*02/28/22 10:10*	*02/28/22 21:51*	*1*
o-Terphenyl	*125*		*70 - 130*	*02/28/22 10:10*	*02/28/22 21:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**986**		5.00	2.00	mg/L			03/05/22 04:34	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00404**		0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 17:50	1
Chromium	**0.000732**	**J**	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 17:50	1
Iron	**3.89**		0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 17:50	1
Manganese	**0.0309**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 17:50	1
Barium	**1.60**		0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 17:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**2860**		200	200	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 09:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MWD-12-W-220224

Date Collected: 02/24/22 14:40
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-20

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/03/22 15:39	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/22 15:39	1
Ethylbenzene	**0.0993**		0.00200	0.000657	mg/L			03/03/22 15:39	1
m-Xylene & p-Xylene	**0.00640**		0.00400	0.000629	mg/L			03/03/22 15:39	1
o-Xylene	**0.00277**		0.00200	0.000642	mg/L			03/03/22 15:39	1
Xylenes, Total	**0.00917**		0.00400	0.000642	mg/L			03/03/22 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/03/22 15:39*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*03/03/22 15:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.108**		0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2.93**	**J**	4.48	0.885	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.53**	**J**	4.48	0.885	mg/L		02/28/22 10:10	02/28/22 22:14	1
Diesel Range Organics (Over C10-C28)	**1.40**	**J**	4.48	0.885	mg/L		02/28/22 10:10	02/28/22 22:14	1
Oil Range Organics (Over C28-C36)	<0.854	U	4.48	0.854	mg/L		02/28/22 10:10	02/28/22 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*02/28/22 10:10*	*02/28/22 22:14*	*1*
o-Terphenyl	*106*		*70 - 130*	*02/28/22 10:10*	*02/28/22 22:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1370**		5.00	2.00	mg/L			03/05/22 04:46	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0415**		0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 17:53	1
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 17:53	1
Iron	**0.525**		0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 17:53	1
Manganese	**0.0970**		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 17:53	1
Barium	**0.257**		0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 17:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4830**		200	200	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 09:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MWD-5-W-220224

Date Collected: 02/24/22 13:35
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-21

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.45		0.400	0.0816	mg/L			03/04/22 08:17	200
Toluene	0.00160	J	0.00200	0.000367	mg/L			03/03/22 16:06	1
Ethylbenzene	0.00745		0.00200	0.000657	mg/L			03/03/22 16:06	1
m-Xylene & p-Xylene	0.00141	J	0.00400	0.000629	mg/L			03/03/22 16:06	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/22 16:06	1
Xylenes, Total	0.00141	J	0.00400	0.000642	mg/L			03/03/22 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*03/03/22 16:06*	*1*
1,4-Difluorobenzene (Surr)	*174*	*S1+*	*70 - 130*		*03/03/22 16:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	3.46		0.00400	0.000657	mg/L			03/09/22 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.2		4.45	0.880	mg/L			03/01/22 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.1		4.45	0.880	mg/L		02/28/22 14:50	03/02/22 04:22	1
Diesel Range Organics (Over C10-C28)	4.10	J	4.45	0.880	mg/L		02/28/22 14:50	03/02/22 04:22	1
Oil Range Organics (Over C28-C36)	<0.849	U	4.45	0.849	mg/L		02/28/22 14:50	03/02/22 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*02/28/22 14:50*	*03/02/22 04:22*	*1*
o-Terphenyl	*107*		*70 - 130*	*02/28/22 14:50*	*03/02/22 04:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	634		5.00	2.00	mg/L			03/05/22 04:58	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0119		0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 17:56	1
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 17:56	1
Iron	5.17		0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 17:56	1
Manganese	0.253		0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 17:56	1
Barium	7.61	E	0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 17:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	2300		200	200	mg/L			03/01/22 17:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 09:45	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-11718-1	MW-14-W-220224	139 S1+	110
880-11718-2	MW-30-W-220224	119	100
880-11718-3	MW-9-W-220224	88	92
880-11718-4	WW-7-W-220224	139 S1+	92
880-11718-5	WW-2-W-220224	92	106
880-11718-6	MW-29-W-220224	88	102
880-11718-7	MW-8-W-220224	79	96
880-11718-8	MW-34-W-220224	84	101
880-11718-9	MWD-6-W-220224	84	97
880-11718-10	Dup03-W-220224	79	89
880-11718-11	MWD-15-W-220224	85	110
880-11718-12	MWD-1-W-220224	76	98
880-11718-13	MW-17-W-220224	80	108
880-11718-14	MWD-7-W-220224	91	104
880-11718-14 MS	MWD-7-W-220224	73	93
880-11718-14 MSD	MWD-7-W-220224	87	105
880-11718-15	MWD-3-W-220224	106	162 S1+
880-11718-16	MWD-17-W-220224	108	100
880-11718-17	MW-22-W-220224	92	107
880-11718-18	RW-7-W-220224	9 S1-	108
880-11718-19	RW-6-W-220224	87	100
880-11718-20	MWD-12-W-220224	103	105
880-11718-21	MWD-5-W-220224	100	174 S1+
LCS 880-20575/3	Lab Control Sample	97	81
LCS 880-20657/34	Lab Control Sample	96	102
LCS 880-20710/34	Lab Control Sample	88	111
LCS 880-20710/65	Lab Control Sample	78	100
LCS 880-20858/3	Lab Control Sample	87	117
LCSD 880-20575/4	Lab Control Sample Dup	102	109
LCSD 880-20657/35	Lab Control Sample Dup	99	104
LCSD 880-20710/35	Lab Control Sample Dup	82	103
LCSD 880-20710/66	Lab Control Sample Dup	76	101
LCSD 880-20858/4	Lab Control Sample Dup	91	120
MB 880-20437/5-A	Method Blank	97	99
MB 880-20575/8	Method Blank	82	81
MB 880-20605/5-A	Method Blank	49 S1-	101
MB 880-20657/64	Method Blank	101	98
MB 880-20710/39	Method Blank	47 S1-	103
MB 880-20710/70	Method Blank	49 S1-	111
MB 880-20858/8	Method Blank	47 S1-	106

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 880-11718-1
Project/Site: Eunice Project-S.Eunice SDG: 30049612

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-11718-1	MW-14-W-220224	105	110
880-11718-2	MW-30-W-220224	99	101
880-11718-3	MW-9-W-220224	110	116
880-11718-4	WW-7-W-220224	113	122
880-11718-5	WW-2-W-220224	113	124
880-11718-6	MW-29-W-220224	105	109
880-11718-7	MW-8-W-220224	117	126
880-11718-8	MW-34-W-220224	106	113
880-11718-9	MWD-6-W-220224	104	110
880-11718-10	Dup03-W-220224	110	118
880-11718-11	MWD-15-W-220224	110	119
880-11718-12	MWD-1-W-220224	106	114
880-11718-13	MW-17-W-220224	110	118
880-11718-14	MWD-7-W-220224	107	116
880-11718-15	MWD-3-W-220224	109	120
880-11718-16	MWD-17-W-220224	110	119
880-11718-17	MW-22-W-220224	115	126
880-11718-18	RW-7-W-220224	115	126
880-11718-19	RW-6-W-220224	111	125
880-11718-20	MWD-12-W-220224	98	106
880-11718-21	MWD-5-W-220224	104	107
880-11718-F-1-A MS	880-11718-F-1-A MS	110	106
880-11718-F-1-B MSD	880-11718-F-1-B MSD	102	93
LCS 880-20438/2-A	Lab Control Sample	468 S1+	476 S1+
LCS 880-20527/2-A	Lab Control Sample	106	94
LCSD 880-20438/3-A	Lab Control Sample Dup	451 S1+	459 S1+
LCSD 880-20527/3-A	Lab Control Sample Dup	103	97
MB 880-20438/1-A	Method Blank	106	115
MB 880-20527/1-A	Method Blank	121	128

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20437/5-A
Matrix: Water
Analysis Batch: 20657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20437

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/02/22 08:00	03/02/22 10:49	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/02/22 08:00	03/02/22 10:49	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/02/22 08:00	03/02/22 10:49	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		03/02/22 08:00	03/02/22 10:49	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/02/22 08:00	03/02/22 10:49	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		03/02/22 08:00	03/02/22 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/02/22 08:00*	*03/02/22 10:49*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/02/22 08:00*	*03/02/22 10:49*	*1*

Lab Sample ID: MB 880-20575/8
Matrix: Water
Analysis Batch: 20575

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/01/22 04:23	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/01/22 04:23	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/01/22 04:23	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/01/22 04:23	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/01/22 04:23	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/01/22 04:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*03/01/22 04:23*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*		*03/01/22 04:23*	*1*

Lab Sample ID: LCS 880-20575/3
Matrix: Water
Analysis Batch: 20575

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08604		mg/L		86	70 - 130
Toluene	0.100	0.08462		mg/L		85	70 - 130
Ethylbenzene	0.100	0.07976		mg/L		80	70 - 130
m-Xylene & p-Xylene	0.200	0.1757		mg/L		88	70 - 130
o-Xylene	0.100	0.09567		mg/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*

Lab Sample ID: LCSD 880-20575/4
Matrix: Water
Analysis Batch: 20575

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08642		mg/L		86	70 - 130	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

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

Lab Sample ID: LCSD 880-20575/4
Matrix: Water
Analysis Batch: 20575

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08254		mg/L		83	70 - 130	2	20
Ethylbenzene			0.100	0.08481		mg/L		85	70 - 130	6	20
m-Xylene & p-Xylene			0.200	0.1762		mg/L		88	70 - 130	0	20
o-Xylene			0.100	0.09197		mg/L		92	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: MB 880-20605/5-A
Matrix: Water
Analysis Batch: 20710

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/02/22 16:00	03/02/22 20:20	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/02/22 16:00	03/02/22 20:20	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/02/22 16:00	03/02/22 20:20	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		03/02/22 16:00	03/02/22 20:20	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/02/22 16:00	03/02/22 20:20	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		03/02/22 16:00	03/02/22 20:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*49*	*S1-*	*70 - 130*	*03/02/22 16:00*	*03/02/22 20:20*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/02/22 16:00*	*03/02/22 20:20*	*1*

Lab Sample ID: MB 880-20657/64
Matrix: Water
Analysis Batch: 20657

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/02/22 23:34	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/02/22 23:34	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/02/22 23:34	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/02/22 23:34	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/02/22 23:34	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/02/22 23:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/02/22 23:34*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*03/02/22 23:34*	*1*

Lab Sample ID: LCS 880-20657/34
Matrix: Water
Analysis Batch: 20657

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.09931		mg/L		99	70 - 130
Toluene			0.100	0.09064		mg/L		91	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

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

Lab Sample ID: LCS 880-20657/34
Matrix: Water
Analysis Batch: 20657

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylbenzene			0.100	0.09039		mg/L		90	70 - 130		
m-Xylene & p-Xylene			0.200	0.2089		mg/L		104	70 - 130		
o-Xylene			0.100	0.1045		mg/L		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-20657/35
Matrix: Water
Analysis Batch: 20657

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1045		mg/L		104	70 - 130	5	20
Toluene			0.100	0.09490		mg/L		95	70 - 130	5	20
Ethylbenzene			0.100	0.09416		mg/L		94	70 - 130	4	20
m-Xylene & p-Xylene			0.200	0.2166		mg/L		108	70 - 130	4	20
o-Xylene			0.100	0.1086		mg/L		109	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 880-20710/39
Matrix: Water
Analysis Batch: 20710

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/03/22 11:41	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/22 11:41	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/22 11:41	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/22 11:41	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/22 11:41	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/22 11:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*47*	*S1-*	*70 - 130*		*03/03/22 11:41*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*		*03/03/22 11:41*	*1*

Lab Sample ID: MB 880-20710/70
Matrix: Water
Analysis Batch: 20710

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/04/22 01:28	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/04/22 01:28	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/04/22 01:28	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/04/22 01:28	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

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

Lab Sample ID: MB 880-20710/70
Matrix: Water
Analysis Batch: 20710

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/04/22 01:28	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/04/22 01:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*49*	*S1-*	*70 - 130*		*03/04/22 01:28*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*		*03/04/22 01:28*	*1*

Lab Sample ID: LCS 880-20710/34
Matrix: Water
Analysis Batch: 20710

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09762		mg/L		98	70 - 130
Toluene	0.100	0.08487		mg/L		85	70 - 130
Ethylbenzene	0.100	0.09152		mg/L		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1865		mg/L		93	70 - 130
o-Xylene	0.100	0.09212		mg/L		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCS 880-20710/65
Matrix: Water
Analysis Batch: 20710

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07567		mg/L		76	70 - 130
Toluene	0.100	0.07095		mg/L		71	70 - 130
Ethylbenzene	0.100	0.07416		mg/L		74	70 - 130
m-Xylene & p-Xylene	0.200	0.1503		mg/L		75	70 - 130
o-Xylene	0.100	0.07581		mg/L		76	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-20710/35
Matrix: Water
Analysis Batch: 20710

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08941		mg/L		89	70 - 130	9	20
Toluene	0.100	0.07883		mg/L		79	70 - 130	7	20
Ethylbenzene	0.100	0.08480		mg/L		85	70 - 130	8	20
m-Xylene & p-Xylene	0.200	0.1735		mg/L		87	70 - 130	7	20
o-Xylene	0.100	0.08676		mg/L		87	70 - 130	6	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

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

Lab Sample ID: LCSD 880-20710/35
Matrix: Water
Analysis Batch: 20710

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-20710/66
Matrix: Water
Analysis Batch: 20710

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07654		mg/L		77	70 - 130	1	20
Toluene			0.100	0.07112		mg/L		71	70 - 130	0	20
Ethylbenzene			0.100	0.07639		mg/L		76	70 - 130	3	20
m-Xylene & p-Xylene			0.200	0.1548		mg/L		77	70 - 130	3	20
o-Xylene			0.100	0.07908		mg/L		79	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	76		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-11718-14 MS
Matrix: Water
Analysis Batch: 20710

Client Sample ID: MWD-7-W-220224
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.000408	U	0.100	0.07669		mg/L		77	70 - 130		
Toluene	<0.000367	U F1	0.100	0.06537	F1	mg/L		65	70 - 130		
Ethylbenzene	<0.000657	U F1	0.100	0.06805	F1	mg/L		68	70 - 130		
m-Xylene & p-Xylene	<0.000629	U F1	0.200	0.1379	F1	mg/L		69	70 - 130		
o-Xylene	<0.000642	U	0.100	0.07130		mg/L		71	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	73		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-11718-14 MSD
Matrix: Water
Analysis Batch: 20710

Client Sample ID: MWD-7-W-220224
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000408	U	0.100	0.09155		mg/L		92	70 - 130	18	25
Toluene	<0.000367	U F1	0.100	0.07626		mg/L		76	70 - 130	15	25
Ethylbenzene	<0.000657	U F1	0.100	0.07949		mg/L		79	70 - 130	16	25
m-Xylene & p-Xylene	<0.000629	U F1	0.200	0.1622		mg/L		81	70 - 130	16	25
o-Xylene	<0.000642	U	0.100	0.08206		mg/L		82	70 - 130	14	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

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

Lab Sample ID: MB 880-20858/8
Matrix: Water
Analysis Batch: 20858

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/04/22 14:41	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/04/22 14:41	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/04/22 14:41	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/04/22 14:41	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/04/22 14:41	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/04/22 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*47*	*S1-*	*70 - 130*		*03/04/22 14:41*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*		*03/04/22 14:41*	*1*

Lab Sample ID: LCS 880-20858/3
Matrix: Water
Analysis Batch: 20858

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1050		mg/L		105	70 - 130		
Toluene			0.100	0.09694		mg/L		97	70 - 130		
Ethylbenzene			0.100	0.1018		mg/L		102	70 - 130		
m-Xylene & p-Xylene			0.200	0.2088		mg/L		104	70 - 130		
o-Xylene			0.100	0.1023		mg/L		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Lab Sample ID: LCSD 880-20858/4
Matrix: Water
Analysis Batch: 20858

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1118		mg/L		112	70 - 130	6	20
Toluene			0.100	0.09900		mg/L		99	70 - 130	2	20
Ethylbenzene			0.100	0.1053		mg/L		105	70 - 130	3	20
m-Xylene & p-Xylene			0.200	0.2131		mg/L		107	70 - 130	2	20
o-Xylene			0.100	0.1032		mg/L		103	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-20438/1-A
Matrix: Water
Analysis Batch: 20435

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.904	U	4.57	0.904	mg/L		02/28/22 10:10	02/28/22 13:02	1
Diesel Range Organics (Over C10-C28)	<0.904	U	4.57	0.904	mg/L		02/28/22 10:10	02/28/22 13:02	1
Oil Range Organics (Over C28-C36)	1.807	J	4.57	0.872	mg/L		02/28/22 10:10	02/28/22 13:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*02/28/22 10:10*	*02/28/22 13:02*	*1*
o-Terphenyl	*115*		*70 - 130*	*02/28/22 10:10*	*02/28/22 13:02*	*1*

Lab Sample ID: LCS 880-20438/2-A
Matrix: Water
Analysis Batch: 20435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	91.7	79.12		mg/L		86	75 - 125
Diesel Range Organics (Over C10-C28)	91.7	81.37		mg/L		89	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*468*	*S1+*	*70 - 130*
o-Terphenyl	*476*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-20438/3-A
Matrix: Water
Analysis Batch: 20435

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20438

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	92.0	73.49		mg/L		80	75 - 125	7	20
Diesel Range Organics (Over C10-C28)	92.0	78.43		mg/L		85	75 - 125	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*451*	*S1+*	*70 - 130*
o-Terphenyl	*459*	*S1+*	*70 - 130*

Lab Sample ID: 880-11718-F-1-A MS
Matrix: Water
Analysis Batch: 20435

Client Sample ID: 880-11718-F-1-A MS
Prep Type: Total/NA
Prep Batch: 20438

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	0.6792		90.4	96.08		mg/L		106	75 - 125
Diesel Range Organics (Over C10-C28)	0.5086		90.4	100.2		mg/L		111	75 - 125

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-11718-F-1-A MS
Matrix: Water
Analysis Batch: 20435

Client Sample ID: 880-11718-F-1-A MS
Prep Type: Total/NA
Prep Batch: 20438

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: 880-11718-F-1-B MSD
Matrix: Water
Analysis Batch: 20435

Client Sample ID: 880-11718-F-1-B MSD
Prep Type: Total/NA
Prep Batch: 20438

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	0.6792		90.6	90.60		mg/L		100	75 - 125	6	20
Diesel Range Organics (Over C10-C28)	0.5086		90.6	90.59		mg/L		100	75 - 125	10	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: MB 880-20527/1-A
Matrix: Water
Analysis Batch: 20580

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20527

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.904	U	4.57	0.904	mg/L		02/28/22 14:50	03/01/22 19:50	1
Diesel Range Organics (Over C10-C28)	<0.904	U	4.57	0.904	mg/L		02/28/22 14:50	03/01/22 19:50	1
Oil Range Organics (Over C28-C36)	<0.872	U	4.57	0.872	mg/L		02/28/22 14:50	03/01/22 19:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	02/28/22 14:50	03/01/22 19:50	1
o-Terphenyl	128		70 - 130	02/28/22 14:50	03/01/22 19:50	1

Lab Sample ID: LCS 880-20527/2-A
Matrix: Water
Analysis Batch: 20580

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20527

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	91.7	80.46		mg/L		88	75 - 125
Diesel Range Organics (Over C10-C28)	91.7	80.46		mg/L		88	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	94		70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-20527/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 20580 — **Prep Batch: 20527**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			92.0	79.70		mg/L		87	75 - 125	1	20
Diesel Range Organics (Over C10-C28)			92.0	82.50		mg/L		90	75 - 125	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-43703/51 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 43703

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			03/04/22 18:57	1

Lab Sample ID: MB 860-43703/79 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 43703

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			03/05/22 03:10	1

Lab Sample ID: LCS 860-43703/52 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 43703

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.958		mg/L		100	90 - 110		

Lab Sample ID: LCS 860-43703/80 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 43703

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.637		mg/L		96	90 - 110		

Lab Sample ID: LCSD 860-43703/53 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 43703

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.955		mg/L		100	90 - 110	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-43703/81
Matrix: Water
Analysis Batch: 43703

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.992		mg/L		100	90 - 110	4	20

Lab Sample ID: 880-11718-3 MS
Matrix: Water
Analysis Batch: 43703

Client Sample ID: MW-9-W-220224
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	208		10.0	217.0	4	mg/L		87	90 - 110

Lab Sample ID: 880-11718-3 MSD
Matrix: Water
Analysis Batch: 43703

Client Sample ID: MW-9-W-220224
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	208		10.0	217.2	4	mg/L		89	90 - 110	0	20

Lab Sample ID: 880-11718-4 MS
Matrix: Water
Analysis Batch: 43703

Client Sample ID: WW-7-W-220224
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	248		10.0	257.1	4	mg/L		90	90 - 110

Lab Sample ID: 880-11718-4 MSD
Matrix: Water
Analysis Batch: 43703

Client Sample ID: WW-7-W-220224
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	248		10.0	256.8	4	mg/L		87	90 - 110	0	20

Lab Sample ID: MB 860-44067/3
Matrix: Water
Analysis Batch: 44067

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			03/08/22 10:53	1

Lab Sample ID: LCS 860-44067/4
Matrix: Water
Analysis Batch: 44067

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			10.0	9.598		mg/L		96	90 - 110

Lab Sample ID: LCSD 860-44067/5
Matrix: Water
Analysis Batch: 44067

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.912		mg/L		99	90 - 110	3	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-43212/1-A
Matrix: Water
Analysis Batch: 43304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43212

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000246	U	0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 14:18	1
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 14:18	1
Iron	<0.0227	U	0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 14:18	1
Manganese	<0.000199	U	0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 14:18	1
Barium	<0.000484	U	0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 14:18	1

Lab Sample ID: LCS 860-43212/2-A
Matrix: Water
Analysis Batch: 43304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.09671		mg/L		97	80 - 120
Chromium	0.100	0.09529		mg/L		95	80 - 120
Iron	0.500	0.4610		mg/L		92	80 - 120
Manganese	0.100	0.09683		mg/L		97	80 - 120
Barium	0.100	0.09424		mg/L		94	80 - 120

Lab Sample ID: LCSD 860-43212/3-A
Matrix: Water
Analysis Batch: 43304

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43212

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.100	0.09688		mg/L		97	80 - 120	0	20
Chromium	0.100	0.09624		mg/L		96	80 - 120	1	20
Iron	0.500	0.4629		mg/L		93	80 - 120	0	20
Manganese	0.100	0.09702		mg/L		97	80 - 120	0	20
Barium	0.100	0.09505		mg/L		95	80 - 120	1	20

Lab Sample ID: MB 860-43213/1-A
Matrix: Water
Analysis Batch: 43304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000246	U	0.00400	0.000246	mg/L		03/01/22 09:25	03/01/22 16:23	1
Chromium	<0.000525	U	0.00400	0.000525	mg/L		03/01/22 09:25	03/01/22 16:23	1
Iron	<0.0227	U	0.100	0.0227	mg/L		03/01/22 09:25	03/01/22 16:23	1
Manganese	<0.000199	U	0.00200	0.000199	mg/L		03/01/22 09:25	03/01/22 16:23	1
Barium	<0.000484	U	0.00400	0.000484	mg/L		03/01/22 09:25	03/01/22 16:23	1

Lab Sample ID: LCS 860-43213/2-A
Matrix: Water
Analysis Batch: 43304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.09430		mg/L		94	80 - 120
Chromium	0.100	0.09601		mg/L		96	80 - 120
Iron	0.500	0.4642		mg/L		93	80 - 120
Manganese	0.100	0.09747		mg/L		97	80 - 120
Barium	0.100	0.08648		mg/L		86	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-43213/3-A
Matrix: Water
Analysis Batch: 43304

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43213

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic			0.100	0.09440		mg/L		94	80 - 120	0	20
Chromium			0.100	0.09578		mg/L		96	80 - 120	0	20
Iron			0.500	0.4595		mg/L		92	80 - 120	1	20
Manganese			0.100	0.09675		mg/L		97	80 - 120	1	20
Barium			0.100	0.08732		mg/L		87	80 - 120	1	20

Lab Sample ID: 880-11718-3 MS
Matrix: Water
Analysis Batch: 43304

Client Sample ID: MW-9-W-220224
Prep Type: Dissolved
Prep Batch: 43213

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic	0.00619		0.100	0.1029		mg/L		97	75 - 125		
Chromium	<0.000525	U	0.100	0.1008		mg/L		101	75 - 125		
Iron	0.0436	J	0.500	0.5214		mg/L		96	75 - 125		
Manganese	0.215		0.100	0.3161		mg/L		101	75 - 125		
Barium	6.57	E	0.100	6.725	E 4	mg/L		157	75 - 125		

Lab Sample ID: 880-11718-3 MSD
Matrix: Water
Analysis Batch: 43304

Client Sample ID: MW-9-W-220224
Prep Type: Dissolved
Prep Batch: 43213

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.00619		0.100	0.1025		mg/L		96	75 - 125	0	20
Chromium	<0.000525	U	0.100	0.09825		mg/L		98	75 - 125	3	20
Iron	0.0436	J	0.500	0.5076		mg/L		93	75 - 125	3	20
Manganese	0.215		0.100	0.3051		mg/L		90	75 - 125	4	20
Barium	6.57	E	0.100	6.707	E 4	mg/L		138	75 - 125	0	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 880-20316/3
Matrix: Water
Analysis Batch: 20316

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 08:05	1

Lab Sample ID: LCS 880-20316/4
Matrix: Water
Analysis Batch: 20316

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)			0.0400	0.04258		mg/L		106	85 - 115		

Lab Sample ID: LCSD 880-20316/5
Matrix: Water
Analysis Batch: 20316

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)			0.0400	0.04258		mg/L		106	85 - 115	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 880-20329/3
Matrix: Water
Analysis Batch: 20329

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 09:05	1

Lab Sample ID: LCS 880-20329/4
Matrix: Water
Analysis Batch: 20329

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	0.0400	0.04210		mg/L		105	85 - 115

Lab Sample ID: LCSD 880-20329/5
Matrix: Water
Analysis Batch: 20329

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	0.0400	0.04258		mg/L		106	85 - 115	1	20

Lab Sample ID: MB 880-20334/3
Matrix: Water
Analysis Batch: 20334

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.00273	U	0.0100	0.00273	mg/L			02/25/22 09:45	1

Lab Sample ID: LCS 880-20334/4
Matrix: Water
Analysis Batch: 20334

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	0.0400	0.04258		mg/L		106	85 - 115

Lab Sample ID: LCSD 880-20334/5
Matrix: Water
Analysis Batch: 20334

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	0.0400	0.04210		mg/L		105	85 - 115	1	20

Lab Sample ID: 880-11718-1 MS
Matrix: Water
Analysis Batch: 20316

Client Sample ID: MW-14-W-220224
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	<0.00273	U H	0.200	0.2021		mg/L		101	85 - 115

Lab Sample ID: 880-11718-1 MSD
Matrix: Water
Analysis Batch: 20316

Client Sample ID: MW-14-W-220224
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	<0.00273	U H	0.200	0.2021		mg/L		101	85 - 115	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: 880-11718-11 MS
Matrix: Water
Analysis Batch: 20329

Client Sample ID: MWD-15-W-220224
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)	<0.00273	U	0.200	0.2035		mg/L		99	85 - 115		

Lab Sample ID: 880-11718-11 MSD
Matrix: Water
Analysis Batch: 20329

Client Sample ID: MWD-15-W-220224
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	<0.00273	U	0.200	0.2035		mg/L		99	85 - 115	0	20

Lab Sample ID: 880-11718-21 MS
Matrix: Water
Analysis Batch: 20334

Client Sample ID: MWD-5-W-220224
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)	<0.00273	U	0.200	0.1884		mg/L		94	85 - 115		

Lab Sample ID: 880-11718-21 MSD
Matrix: Water
Analysis Batch: 20334

Client Sample ID: MWD-5-W-220224
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	<0.00273	U	0.200	0.1884		mg/L		94	85 - 115	0	20

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

Lab Sample ID: MB 830-777/1
Matrix: Water
Analysis Batch: 777

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			03/01/22 17:00	1

Lab Sample ID: LCS 830-777/2
Matrix: Water
Analysis Batch: 777

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	992.0		mg/L		99	90 - 110		

Lab Sample ID: LCSD 830-777/3
Matrix: Water
Analysis Batch: 777

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	993.0		mg/L		99	90 - 110	0	10

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

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

Lab Sample ID: 880-11718-12 DU
Matrix: Water
Analysis Batch: 777

Client Sample ID: MWD-1-W-220224
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1560			1568		mg/L				0.4	10

Lab Sample ID: MB 830-778/1
Matrix: Water
Analysis Batch: 778

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			03/01/22 17:00	1

Lab Sample ID: LCS 830-778/2
Matrix: Water
Analysis Batch: 778

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1001		mg/L		100	90 - 110		

Lab Sample ID: LCSD 830-778/3
Matrix: Water
Analysis Batch: 778

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1005		mg/L		101	90 - 110	0	10

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

GC VOA

Prep Batch: 20437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20437/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 20575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-1	MW-14-W-220224	Total/NA	Water	8021B	
880-11718-2	MW-30-W-220224	Total/NA	Water	8021B	
MB 880-20575/8	Method Blank	Total/NA	Water	8021B	
LCS 880-20575/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-20575/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Prep Batch: 20605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20605/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 20657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-3	MW-9-W-220224	Total/NA	Water	8021B	
MB 880-20437/5-A	Method Blank	Total/NA	Water	8021B	20437
MB 880-20657/64	Method Blank	Total/NA	Water	8021B	
LCS 880-20657/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-20657/35	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 20710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-4	WW-7-W-220224	Total/NA	Water	8021B	
880-11718-5	WW-2-W-220224	Total/NA	Water	8021B	
880-11718-6	MW-29-W-220224	Total/NA	Water	8021B	
880-11718-7	MW-8-W-220224	Total/NA	Water	8021B	
880-11718-8	MW-34-W-220224	Total/NA	Water	8021B	
880-11718-9	MWD-6-W-220224	Total/NA	Water	8021B	
880-11718-10	Dup03-W-220224	Total/NA	Water	8021B	
880-11718-11	MWD-15-W-220224	Total/NA	Water	8021B	
880-11718-12	MWD-1-W-220224	Total/NA	Water	8021B	
880-11718-13	MW-17-W-220224	Total/NA	Water	8021B	
880-11718-14	MWD-7-W-220224	Total/NA	Water	8021B	
880-11718-15	MWD-3-W-220224	Total/NA	Water	8021B	
880-11718-15	MWD-3-W-220224	Total/NA	Water	8021B	
880-11718-16	MWD-17-W-220224	Total/NA	Water	8021B	
880-11718-17	MW-22-W-220224	Total/NA	Water	8021B	
880-11718-18	RW-7-W-220224	Total/NA	Water	8021B	
880-11718-19	RW-6-W-220224	Total/NA	Water	8021B	
880-11718-20	MWD-12-W-220224	Total/NA	Water	8021B	
880-11718-21	MWD-5-W-220224	Total/NA	Water	8021B	
880-11718-21	MWD-5-W-220224	Total/NA	Water	8021B	
MB 880-20605/5-A	Method Blank	Total/NA	Water	8021B	20605
MB 880-20710/39	Method Blank	Total/NA	Water	8021B	
MB 880-20710/70	Method Blank	Total/NA	Water	8021B	
LCS 880-20710/34	Lab Control Sample	Total/NA	Water	8021B	
LCS 880-20710/65	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-20710/35	Lab Control Sample Dup	Total/NA	Water	8021B	
LCSD 880-20710/66	Lab Control Sample Dup	Total/NA	Water	8021B	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

GC VOA (Continued)

Analysis Batch: 20710 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-14 MS	MWD-7-W-220224	Total/NA	Water	8021B	
880-11718-14 MSD	MWD-7-W-220224	Total/NA	Water	8021B	

Analysis Batch: 20858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20858/8	Method Blank	Total/NA	Water	8021B	
LCS 880-20858/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-20858/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 21271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-1	MW-14-W-220224	Total/NA	Water	Total BTEX	
880-11718-2	MW-30-W-220224	Total/NA	Water	Total BTEX	
880-11718-3	MW-9-W-220224	Total/NA	Water	Total BTEX	
880-11718-4	WW-7-W-220224	Total/NA	Water	Total BTEX	
880-11718-5	WW-2-W-220224	Total/NA	Water	Total BTEX	
880-11718-6	MW-29-W-220224	Total/NA	Water	Total BTEX	
880-11718-7	MW-8-W-220224	Total/NA	Water	Total BTEX	
880-11718-8	MW-34-W-220224	Total/NA	Water	Total BTEX	
880-11718-9	MWD-6-W-220224	Total/NA	Water	Total BTEX	
880-11718-10	Dup03-W-220224	Total/NA	Water	Total BTEX	
880-11718-11	MWD-15-W-220224	Total/NA	Water	Total BTEX	
880-11718-12	MWD-1-W-220224	Total/NA	Water	Total BTEX	
880-11718-13	MW-17-W-220224	Total/NA	Water	Total BTEX	
880-11718-14	MWD-7-W-220224	Total/NA	Water	Total BTEX	
880-11718-15	MWD-3-W-220224	Total/NA	Water	Total BTEX	
880-11718-16	MWD-17-W-220224	Total/NA	Water	Total BTEX	
880-11718-17	MW-22-W-220224	Total/NA	Water	Total BTEX	
880-11718-18	RW-7-W-220224	Total/NA	Water	Total BTEX	
880-11718-19	RW-6-W-220224	Total/NA	Water	Total BTEX	
880-11718-20	MWD-12-W-220224	Total/NA	Water	Total BTEX	
880-11718-21	MWD-5-W-220224	Total/NA	Water	Total BTEX	

GC Semi VOA

Analysis Batch: 20435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-1	MW-14-W-220224	Total/NA	Water	8015B NM	20438
880-11718-3	MW-9-W-220224	Total/NA	Water	8015B NM	20438
880-11718-4	WW-7-W-220224	Total/NA	Water	8015B NM	20438
880-11718-5	WW-2-W-220224	Total/NA	Water	8015B NM	20438
880-11718-6	MW-29-W-220224	Total/NA	Water	8015B NM	20438
880-11718-7	MW-8-W-220224	Total/NA	Water	8015B NM	20438
880-11718-8	MW-34-W-220224	Total/NA	Water	8015B NM	20438
880-11718-9	MWD-6-W-220224	Total/NA	Water	8015B NM	20438
880-11718-10	Dup03-W-220224	Total/NA	Water	8015B NM	20438
880-11718-11	MWD-15-W-220224	Total/NA	Water	8015B NM	20438
880-11718-12	MWD-1-W-220224	Total/NA	Water	8015B NM	20438
880-11718-13	MW-17-W-220224	Total/NA	Water	8015B NM	20438
880-11718-14	MWD-7-W-220224	Total/NA	Water	8015B NM	20438
880-11718-15	MWD-3-W-220224	Total/NA	Water	8015B NM	20438

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

GC Semi VOA (Continued)

Analysis Batch: 20435 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-16	MWD-17-W-220224	Total/NA	Water	8015B NM	20438
880-11718-17	MW-22-W-220224	Total/NA	Water	8015B NM	20438
880-11718-18	RW-7-W-220224	Total/NA	Water	8015B NM	20438
880-11718-19	RW-6-W-220224	Total/NA	Water	8015B NM	20438
880-11718-20	MWD-12-W-220224	Total/NA	Water	8015B NM	20438
MB 880-20438/1-A	Method Blank	Total/NA	Water	8015B NM	20438
LCS 880-20438/2-A	Lab Control Sample	Total/NA	Water	8015B NM	20438
LCSD 880-20438/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	20438
880-11718-F-1-A MS	880-11718-F-1-A MS	Total/NA	Water	8015B NM	20438
880-11718-F-1-B MSD	880-11718-F-1-B MSD	Total/NA	Water	8015B NM	20438

Prep Batch: 20438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-1	MW-14-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-3	MW-9-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-4	WW-7-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-5	WW-2-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-6	MW-29-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-7	MW-8-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-8	MW-34-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-9	MWD-6-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-10	Dup03-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-11	MWD-15-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-12	MWD-1-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-13	MW-17-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-14	MWD-7-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-15	MWD-3-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-16	MWD-17-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-17	MW-22-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-18	RW-7-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-19	RW-6-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-20	MWD-12-W-220224	Total/NA	Water	8015NM Aq Prep	
MB 880-20438/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 880-20438/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 880-20438/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
880-11718-F-1-A MS	880-11718-F-1-A MS	Total/NA	Water	8015NM Aq Prep	
880-11718-F-1-B MSD	880-11718-F-1-B MSD	Total/NA	Water	8015NM Aq Prep	

Prep Batch: 20527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-2	MW-30-W-220224	Total/NA	Water	8015NM Aq Prep	
880-11718-21	MWD-5-W-220224	Total/NA	Water	8015NM Aq Prep	
MB 880-20527/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 880-20527/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 880-20527/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 20580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-2	MW-30-W-220224	Total/NA	Water	8015B NM	20527
880-11718-21	MWD-5-W-220224	Total/NA	Water	8015B NM	20527
MB 880-20527/1-A	Method Blank	Total/NA	Water	8015B NM	20527

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

GC Semi VOA (Continued)

Analysis Batch: 20580 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-20527/2-A	Lab Control Sample	Total/NA	Water	8015B NM	20527
LCSD 880-20527/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	20527

Analysis Batch: 20614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-1	MW-14-W-220224	Total/NA	Water	8015 NM	
880-11718-2	MW-30-W-220224	Total/NA	Water	8015 NM	
880-11718-3	MW-9-W-220224	Total/NA	Water	8015 NM	
880-11718-4	WW-7-W-220224	Total/NA	Water	8015 NM	
880-11718-5	WW-2-W-220224	Total/NA	Water	8015 NM	
880-11718-6	MW-29-W-220224	Total/NA	Water	8015 NM	
880-11718-7	MW-8-W-220224	Total/NA	Water	8015 NM	
880-11718-8	MW-34-W-220224	Total/NA	Water	8015 NM	
880-11718-9	MWD-6-W-220224	Total/NA	Water	8015 NM	
880-11718-10	Dup03-W-220224	Total/NA	Water	8015 NM	
880-11718-11	MWD-15-W-220224	Total/NA	Water	8015 NM	
880-11718-12	MWD-1-W-220224	Total/NA	Water	8015 NM	
880-11718-13	MW-17-W-220224	Total/NA	Water	8015 NM	
880-11718-14	MWD-7-W-220224	Total/NA	Water	8015 NM	
880-11718-15	MWD-3-W-220224	Total/NA	Water	8015 NM	
880-11718-16	MWD-17-W-220224	Total/NA	Water	8015 NM	
880-11718-17	MW-22-W-220224	Total/NA	Water	8015 NM	
880-11718-18	RW-7-W-220224	Total/NA	Water	8015 NM	
880-11718-19	RW-6-W-220224	Total/NA	Water	8015 NM	
880-11718-20	MWD-12-W-220224	Total/NA	Water	8015 NM	
880-11718-21	MWD-5-W-220224	Total/NA	Water	8015 NM	

HPLC/IC

Analysis Batch: 43703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-1 - DL	MW-14-W-220224	Total/NA	Water	300.0	
880-11718-2 - DL	MW-30-W-220224	Total/NA	Water	300.0	
880-11718-3	MW-9-W-220224	Total/NA	Water	300.0	
880-11718-4	WW-7-W-220224	Total/NA	Water	300.0	
880-11718-6 - DL	MW-29-W-220224	Total/NA	Water	300.0	
880-11718-7 - DL	MW-8-W-220224	Total/NA	Water	300.0	
880-11718-8 - DL	MW-34-W-220224	Total/NA	Water	300.0	
880-11718-9	MWD-6-W-220224	Total/NA	Water	300.0	
880-11718-10 - DL	Dup03-W-220224	Total/NA	Water	300.0	
880-11718-11 - DL	MWD-15-W-220224	Total/NA	Water	300.0	
880-11718-12 - DL	MWD-1-W-220224	Total/NA	Water	300.0	
880-11718-13 - DL	MW-17-W-220224	Total/NA	Water	300.0	
880-11718-14 - DL	MWD-7-W-220224	Total/NA	Water	300.0	
880-11718-15 - DL	MWD-3-W-220224	Total/NA	Water	300.0	
880-11718-16 - DL	MWD-17-W-220224	Total/NA	Water	300.0	
880-11718-17 - DL	MW-22-W-220224	Total/NA	Water	300.0	
880-11718-18 - DL	RW-7-W-220224	Total/NA	Water	300.0	
880-11718-19 - DL	RW-6-W-220224	Total/NA	Water	300.0	
880-11718-20 - DL	MWD-12-W-220224	Total/NA	Water	300.0	
880-11718-21 - DL	MWD-5-W-220224	Total/NA	Water	300.0	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

HPLC/IC (Continued)

Analysis Batch: 43703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-43703/51	Method Blank	Total/NA	Water	300.0	
MB 860-43703/79	Method Blank	Total/NA	Water	300.0	
LCS 860-43703/52	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-43703/80	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-43703/53	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-43703/81	Lab Control Sample Dup	Total/NA	Water	300.0	
880-11718-3 MS	MW-9-W-220224	Total/NA	Water	300.0	
880-11718-3 MSD	MW-9-W-220224	Total/NA	Water	300.0	
880-11718-4 MS	WW-7-W-220224	Total/NA	Water	300.0	
880-11718-4 MSD	WW-7-W-220224	Total/NA	Water	300.0	

Analysis Batch: 44067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-5 - DL	WW-2-W-220224	Total/NA	Water	300.0	
MB 860-44067/3	Method Blank	Total/NA	Water	300.0	
LCS 860-44067/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-44067/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 43212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-1	MW-14-W-220224	Dissolved	Water	3010A	
880-11718-2	MW-30-W-220224	Dissolved	Water	3010A	
MB 860-43212/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-43212/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-43212/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Prep Batch: 43213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-3	MW-9-W-220224	Dissolved	Water	3010A	
880-11718-4	WW-7-W-220224	Dissolved	Water	3010A	
880-11718-5	WW-2-W-220224	Dissolved	Water	3010A	
880-11718-6	MW-29-W-220224	Dissolved	Water	3010A	
880-11718-7	MW-8-W-220224	Dissolved	Water	3010A	
880-11718-8	MW-34-W-220224	Dissolved	Water	3010A	
880-11718-9	MWD-6-W-220224	Dissolved	Water	3010A	
880-11718-10	Dup03-W-220224	Dissolved	Water	3010A	
880-11718-11	MWD-15-W-220224	Dissolved	Water	3010A	
880-11718-12	MWD-1-W-220224	Dissolved	Water	3010A	
880-11718-13	MW-17-W-220224	Dissolved	Water	3010A	
880-11718-14	MWD-7-W-220224	Dissolved	Water	3010A	
880-11718-15	MWD-3-W-220224	Dissolved	Water	3010A	
880-11718-16	MWD-17-W-220224	Dissolved	Water	3010A	
880-11718-17	MW-22-W-220224	Dissolved	Water	3010A	
880-11718-18	RW-7-W-220224	Dissolved	Water	3010A	
880-11718-19	RW-6-W-220224	Dissolved	Water	3010A	
880-11718-20	MWD-12-W-220224	Dissolved	Water	3010A	
880-11718-21	MWD-5-W-220224	Dissolved	Water	3010A	
MB 860-43213/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-43213/2-A	Lab Control Sample	Total/NA	Water	3010A	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Metals (Continued)

Prep Batch: 43213 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-43213/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
880-11718-3 MS	MW-9-W-220224	Dissolved	Water	3010A	
880-11718-3 MSD	MW-9-W-220224	Dissolved	Water	3010A	

Analysis Batch: 43304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-1	MW-14-W-220224	Dissolved	Water	6020A	43212
880-11718-2	MW-30-W-220224	Dissolved	Water	6020A	43212
880-11718-3	MW-9-W-220224	Dissolved	Water	6020A	43213
880-11718-4	WW-7-W-220224	Dissolved	Water	6020A	43213
880-11718-5	WW-2-W-220224	Dissolved	Water	6020A	43213
880-11718-6	MW-29-W-220224	Dissolved	Water	6020A	43213
880-11718-7	MW-8-W-220224	Dissolved	Water	6020A	43213
880-11718-8	MW-34-W-220224	Dissolved	Water	6020A	43213
880-11718-9	MWD-6-W-220224	Dissolved	Water	6020A	43213
880-11718-10	Dup03-W-220224	Dissolved	Water	6020A	43213
880-11718-11	MWD-15-W-220224	Dissolved	Water	6020A	43213
880-11718-12	MWD-1-W-220224	Dissolved	Water	6020A	43213
880-11718-13	MW-17-W-220224	Dissolved	Water	6020A	43213
880-11718-14	MWD-7-W-220224	Dissolved	Water	6020A	43213
880-11718-14	MWD-7-W-220224	Dissolved	Water	6020A	43213
880-11718-15	MWD-3-W-220224	Dissolved	Water	6020A	43213
880-11718-15	MWD-3-W-220224	Dissolved	Water	6020A	43213
880-11718-16	MWD-17-W-220224	Dissolved	Water	6020A	43213
880-11718-16	MWD-17-W-220224	Dissolved	Water	6020A	43213
880-11718-17	MW-22-W-220224	Dissolved	Water	6020A	43213
880-11718-18	RW-7-W-220224	Dissolved	Water	6020A	43213
880-11718-19	RW-6-W-220224	Dissolved	Water	6020A	43213
880-11718-20	MWD-12-W-220224	Dissolved	Water	6020A	43213
880-11718-21	MWD-5-W-220224	Dissolved	Water	6020A	43213
MB 860-43212/1-A	Method Blank	Total/NA	Water	6020A	43212
MB 860-43213/1-A	Method Blank	Total/NA	Water	6020A	43213
LCS 860-43212/2-A	Lab Control Sample	Total/NA	Water	6020A	43212
LCS 860-43213/2-A	Lab Control Sample	Total/NA	Water	6020A	43213
LCSD 860-43212/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	43212
LCSD 860-43213/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	43213
880-11718-3 MS	MW-9-W-220224	Dissolved	Water	6020A	43213
880-11718-3 MSD	MW-9-W-220224	Dissolved	Water	6020A	43213

Analysis Batch: 43513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-14	MWD-7-W-220224	Dissolved	Water	6020A	43213

General Chemistry

Analysis Batch: 777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-1	MW-14-W-220224	Total/NA	Water	SM 2540C	
880-11718-2	MW-30-W-220224	Total/NA	Water	SM 2540C	
880-11718-4	WW-7-W-220224	Total/NA	Water	SM 2540C	
880-11718-6	MW-29-W-220224	Total/NA	Water	SM 2540C	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

General Chemistry (Continued)

Analysis Batch: 777 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-7	MW-8-W-220224	Total/NA	Water	SM 2540C	
880-11718-10	Dup03-W-220224	Total/NA	Water	SM 2540C	
880-11718-12	MWD-1-W-220224	Total/NA	Water	SM 2540C	
880-11718-13	MW-17-W-220224	Total/NA	Water	SM 2540C	
880-11718-14	MWD-7-W-220224	Total/NA	Water	SM 2540C	
880-11718-15	MWD-3-W-220224	Total/NA	Water	SM 2540C	
880-11718-16	MWD-17-W-220224	Total/NA	Water	SM 2540C	
880-11718-19	RW-6-W-220224	Total/NA	Water	SM 2540C	
880-11718-20	MWD-12-W-220224	Total/NA	Water	SM 2540C	
MB 830-777/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 830-777/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 830-777/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-11718-12 DU	MWD-1-W-220224	Total/NA	Water	SM 2540C	

Analysis Batch: 778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-3	MW-9-W-220224	Total/NA	Water	SM 2540C	
880-11718-5	WW-2-W-220224	Total/NA	Water	SM 2540C	
880-11718-8	MW-34-W-220224	Total/NA	Water	SM 2540C	
880-11718-9	MWD-6-W-220224	Total/NA	Water	SM 2540C	
880-11718-11	MWD-15-W-220224	Total/NA	Water	SM 2540C	
880-11718-17	MW-22-W-220224	Total/NA	Water	SM 2540C	
880-11718-18	RW-7-W-220224	Total/NA	Water	SM 2540C	
880-11718-21	MWD-5-W-220224	Total/NA	Water	SM 2540C	
MB 830-778/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 830-778/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 830-778/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 20316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-1	MW-14-W-220224	Dissolved	Water	7196A	
880-11718-2	MW-30-W-220224	Dissolved	Water	7196A	
880-11718-3	MW-9-W-220224	Dissolved	Water	7196A	
880-11718-4	WW-7-W-220224	Dissolved	Water	7196A	
880-11718-5	WW-2-W-220224	Dissolved	Water	7196A	
880-11718-6	MW-29-W-220224	Dissolved	Water	7196A	
880-11718-7	MW-8-W-220224	Dissolved	Water	7196A	
880-11718-8	MW-34-W-220224	Dissolved	Water	7196A	
880-11718-9	MWD-6-W-220224	Dissolved	Water	7196A	
880-11718-10	Dup03-W-220224	Dissolved	Water	7196A	
MB 880-20316/3	Method Blank	Total/NA	Water	7196A	
LCS 880-20316/4	Lab Control Sample	Total/NA	Water	7196A	
LCSD 880-20316/5	Lab Control Sample Dup	Total/NA	Water	7196A	
880-11718-1 MS	MW-14-W-220224	Dissolved	Water	7196A	
880-11718-1 MSD	MW-14-W-220224	Dissolved	Water	7196A	

Analysis Batch: 20329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-11	MWD-15-W-220224	Dissolved	Water	7196A	
880-11718-12	MWD-1-W-220224	Dissolved	Water	7196A	
880-11718-13	MW-17-W-220224	Dissolved	Water	7196A	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

General Chemistry (Continued)

Analysis Batch: 20329 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-14	MWD-7-W-220224	Dissolved	Water	7196A	
880-11718-15	MWD-3-W-220224	Dissolved	Water	7196A	
880-11718-16	MWD-17-W-220224	Dissolved	Water	7196A	
880-11718-17	MW-22-W-220224	Dissolved	Water	7196A	
880-11718-18	RW-7-W-220224	Dissolved	Water	7196A	
880-11718-19	RW-6-W-220224	Dissolved	Water	7196A	
880-11718-20	MWD-12-W-220224	Dissolved	Water	7196A	
MB 880-20329/3	Method Blank	Total/NA	Water	7196A	
LCS 880-20329/4	Lab Control Sample	Total/NA	Water	7196A	
LCSD 880-20329/5	Lab Control Sample Dup	Total/NA	Water	7196A	
880-11718-11 MS	MWD-15-W-220224	Dissolved	Water	7196A	
880-11718-11 MSD	MWD-15-W-220224	Dissolved	Water	7196A	

Analysis Batch: 20334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11718-21	MWD-5-W-220224	Dissolved	Water	7196A	
MB 880-20334/3	Method Blank	Total/NA	Water	7196A	
LCS 880-20334/4	Lab Control Sample	Total/NA	Water	7196A	
LCSD 880-20334/5	Lab Control Sample Dup	Total/NA	Water	7196A	
880-11718-21 MS	MWD-5-W-220224	Dissolved	Water	7196A	
880-11718-21 MSD	MWD-5-W-220224	Dissolved	Water	7196A	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MW-14-W-220224

Date Collected: 02/24/22 07:52
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20575	03/01/22 19:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.2 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 14:28	AJ	EET MID
Total/NA	Analysis	300.0	DL	10			43703	03/04/22 22:22	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43212	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 15:51	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20316	02/25/22 08:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	777	03/01/22 17:00	DH	EET EP

Client Sample ID: MW-30-W-220224

Date Collected: 02/24/22 08:29
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20575	03/01/22 20:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.5 mL	3 mL	20527	02/28/22 14:50	DM	EET MID
Total/NA	Analysis	8015B NM		1			20580	03/02/22 04:01	AJ	EET MID
Total/NA	Analysis	300.0	DL	10			43703	03/04/22 22:34	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43212	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 15:55	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20316	02/25/22 08:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	777	03/01/22 17:00	DH	EET EP

Client Sample ID: MW-9-W-220224

Date Collected: 02/24/22 09:12
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20657	03/03/22 02:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.4 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 15:52	AJ	EET MID
Total/NA	Analysis	300.0		1			43703	03/04/22 22:46	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 16:33	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20316	02/25/22 08:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	778	03/01/22 17:00	DH	EET EP

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: WW-7-W-220224
Date Collected: 02/24/22 09:39
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 21:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.4 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 16:12	AJ	EET MID
Total/NA	Analysis	300.0		1			43703	03/04/22 23:46	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 16:55	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20316	02/25/22 08:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	777	03/01/22 17:00	DH	EET EP

Client Sample ID: WW-2-W-220224
Date Collected: 02/24/22 10:16
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 21:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.1 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 16:33	AJ	EET MID
Total/NA	Analysis	300.0	DL	10			44067	03/08/22 11:41	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 16:59	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20316	02/25/22 08:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	778	03/01/22 17:00	DH	EET EP

Client Sample ID: MW-29-W-220224
Date Collected: 02/24/22 10:56
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/04/22 06:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.3 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 16:53	AJ	EET MID
Total/NA	Analysis	300.0	DL	10			43703	03/05/22 00:34	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 17:02	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20316	02/25/22 08:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	777	03/01/22 17:00	DH	EET EP

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MW-8-W-220224
Date Collected: 02/24/22 11:29
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/04/22 02:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.1 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 17:14	AJ	EET MID
Total/NA	Analysis	300.0	DL	10			43703	03/05/22 00:46	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 17:05	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20316	02/25/22 08:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	1000 mL	777	03/01/22 17:00	DH	EET EP

Client Sample ID: MW-34-W-220224
Date Collected: 02/24/22 12:09
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/04/22 04:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.2 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 17:36	AJ	EET MID
Total/NA	Analysis	300.0	DL	10			43703	03/05/22 00:58	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 17:08	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20316	02/25/22 08:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	778	03/01/22 17:00	DH	EET EP

Client Sample ID: MWD-6-W-220224
Date Collected: 02/24/22 12:57
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/04/22 04:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.1 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 17:57	AJ	EET MID
Total/NA	Analysis	300.0		1			43703	03/05/22 01:10	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 17:11	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20316	02/25/22 08:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	778	03/01/22 17:00	DH	EET EP

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: Dup03-W-220224
Date Collected: 02/24/22 00:00
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/04/22 05:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.6 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 18:18	AJ	EET MID
Total/NA	Analysis	300.0	DL	10			43703	03/05/22 01:22	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 17:15	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20316	02/25/22 08:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	777	03/01/22 17:00	DH	EET EP

Client Sample ID: MWD-15-W-220224
Date Collected: 02/24/22 09:35
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/04/22 05:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.6 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 19:00	AJ	EET MID
Total/NA	Analysis	300.0	DL	10			43703	03/05/22 01:34	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 17:18	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20329	02/25/22 09:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	1000 mL	778	03/01/22 17:00	DH	EET EP

Client Sample ID: MWD-1-W-220224
Date Collected: 02/24/22 10:08
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/04/22 03:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.1 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 19:22	AJ	EET MID
Total/NA	Analysis	300.0	DL	10			43703	03/05/22 02:10	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 17:21	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20329	02/25/22 09:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	777	03/01/22 17:00	DH	EET EP

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MW-17-W-220224

Lab Sample ID: 880-11718-13
Matrix: Water
Date Collected: 02/24/22 10:45
Date Received: 02/24/22 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/04/22 03:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.1 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 19:43	AJ	EET MID
Total/NA	Analysis	300.0	DL	10			43703	03/05/22 02:22	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 17:24	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20329	02/25/22 09:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	1000 mL	777	03/01/22 17:00	DH	EET EP

Client Sample ID: MWD-7-W-220224

Lab Sample ID: 880-11718-14
Matrix: Water
Date Collected: 02/24/22 11:10
Date Received: 02/24/22 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 12:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 20:04	AJ	EET MID
Total/NA	Analysis	300.0	DL	100			43703	03/05/22 02:34	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 17:34	SHZ	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		10			43304	03/01/22 18:18	SHZ	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		10			43513	03/02/22 13:45	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20329	02/25/22 09:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	10 mL	1000 mL	777	03/01/22 17:00	DH	EET EP

Client Sample ID: MWD-3-W-220224

Lab Sample ID: 880-11718-15
Matrix: Water
Date Collected: 02/24/22 11:45
Date Received: 02/24/22 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 13:53	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	20710	03/04/22 07:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.4 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 20:25	AJ	EET MID
Total/NA	Analysis	300.0	DL	100			43703	03/05/22 03:46	WP	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MWD-3-W-220224
Date Collected: 02/24/22 11:45
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 17:37	SHZ	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		10			43304	03/01/22 18:21	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20329	02/25/22 09:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	5 mL	1000 mL	777	03/01/22 17:00	DH	EET EP

Client Sample ID: MWD-17-W-220224
Date Collected: 02/24/22 12:45
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 14:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.4 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 20:46	AJ	EET MID
Total/NA	Analysis	300.0	DL	100			43703	03/05/22 03:58	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 17:40	SHZ	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		10			43304	03/01/22 18:25	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20329	02/25/22 09:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	10 mL	1000 mL	777	03/01/22 17:00	DH	EET EP

Client Sample ID: MW-22-W-220224
Date Collected: 02/24/22 12:08
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 14:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.5 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 21:07	AJ	EET MID
Total/NA	Analysis	300.0	DL	10			43703	03/05/22 04:10	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 17:43	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20329	02/25/22 09:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	10 mL	1000 mL	778	03/01/22 17:00	DH	EET EP

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: RW-7-W-220224
Date Collected: 02/24/22 13:20
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 12:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.5 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 21:29	AJ	EET MID
Total/NA	Analysis	300.0	DL	10			43703	03/05/22 04:22	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 17:47	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20329	02/25/22 09:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	10 mL	1000 mL	778	03/01/22 17:00	DH	EET EP

Client Sample ID: RW-6-W-220224
Date Collected: 02/24/22 13:48
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 15:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.7 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 21:51	AJ	EET MID
Total/NA	Analysis	300.0	DL	10			43703	03/05/22 04:34	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 17:50	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20329	02/25/22 09:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	1000 mL	777	03/01/22 17:00	DH	EET EP

Client Sample ID: MWD-12-W-220224
Date Collected: 02/24/22 14:40
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 15:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.5 mL	3 mL	20438	02/28/22 10:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			20435	02/28/22 22:14	AJ	EET MID
Total/NA	Analysis	300.0	DL	10			43703	03/05/22 04:46	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 17:53	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20329	02/25/22 09:05	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	1000 mL	777	03/01/22 17:00	DH	EET EP

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Client Sample ID: MWD-5-W-220224

Date Collected: 02/24/22 13:35
Date Received: 02/24/22 17:20

Lab Sample ID: 880-11718-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 16:06	MNR	EET MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	20710	03/04/22 08:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			21271	03/09/22 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			20614	03/01/22 13:41	AJ	EET MID
Total/NA	Prep	8015NM Aq Prep			33.7 mL	3 mL	20527	02/28/22 14:50	DM	EET MID
Total/NA	Analysis	8015B NM		1			20580	03/02/22 04:22	AJ	EET MID
Total/NA	Analysis	300.0	DL	10			43703	03/05/22 04:58	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	43213	03/01/22 09:25	MD	EET HOU
Dissolved	Analysis	6020A		1			43304	03/01/22 17:56	SHZ	EET HOU
Dissolved	Analysis	7196A		1	100 mL	100 mL	20334	02/25/22 09:45	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	1000 mL	778	03/01/22 17:00	DH	EET EP

Laboratory References:

EET EP = Eurofins El Paso, 200 East Sunset Rd., Suite E, El Paso, TX 79922, TEL (915)585-3443
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
Total BTEX		Water	Total BTEX

Laboratory: Eurofins El Paso

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704221-22-20	04-30-22

Laboratory: Eurofins Houston

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-22-48	06-30-22

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET HOU
6020A	Metals (ICP/MS)	SW846	EET HOU
7196A	Chromium, Hexavalent	SW846	EET MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET EP
3010A	Preparation, Total Metals	SW846	EET HOU
5030B	Purge and Trap	SW846	EET MID
8015NM Aq Prep	Microextraction	SW846	EET MID

Protocol References:

EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"
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 EP = Eurofins El Paso, 200 East Sunset Rd., Suite E, El Paso, TX 79922, TEL (915)585-3443
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project-S.Eunice

Job ID: 880-11718-1
SDG: 30049612

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-11718-1	MW-14-W-220224	Water	02/24/22 07:52	02/24/22 17:20
880-11718-2	MW-30-W-220224	Water	02/24/22 08:29	02/24/22 17:20
880-11718-3	MW-9-W-220224	Water	02/24/22 09:12	02/24/22 17:20
880-11718-4	WW-7-W-220224	Water	02/24/22 09:39	02/24/22 17:20
880-11718-5	WW-2-W-220224	Water	02/24/22 10:16	02/24/22 17:20
880-11718-6	MW-29-W-220224	Water	02/24/22 10:56	02/24/22 17:20
880-11718-7	MW-8-W-220224	Water	02/24/22 11:29	02/24/22 17:20
880-11718-8	MW-34-W-220224	Water	02/24/22 12:09	02/24/22 17:20
880-11718-9	MWD-6-W-220224	Water	02/24/22 12:57	02/24/22 17:20
880-11718-10	Dup03-W-220224	Water	02/24/22 00:00	02/24/22 17:20
880-11718-11	MWD-15-W-220224	Water	02/24/22 09:35	02/24/22 17:20
880-11718-12	MWD-1-W-220224	Water	02/24/22 10:08	02/24/22 17:20
880-11718-13	MW-17-W-220224	Water	02/24/22 10:45	02/24/22 17:20
880-11718-14	MWD-7-W-220224	Water	02/24/22 11:10	02/24/22 17:20
880-11718-15	MWD-3-W-220224	Water	02/24/22 11:45	02/24/22 17:20
880-11718-16	MWD-17-W-220224	Water	02/24/22 12:45	02/24/22 17:20
880-11718-17	MW-22-W-220224	Water	02/24/22 12:08	02/24/22 17:20
880-11718-18	RW-7-W-220224	Water	02/24/22 13:20	02/24/22 17:20
880-11718-19	RW-6-W-220224	Water	02/24/22 13:48	02/24/22 17:20
880-11718-20	MWD-12-W-220224	Water	02/24/22 14:40	02/24/22 17:20
880-11718-21	MWD-5-W-220224	Water	02/24/22 13:35	02/24/22 17:20

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Chain of Custody

XENCO LABORATORIES
Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenc

Work Or

880-11718 Chain of Custody

2/24/2023 (Rev. 2)

Project Manager:	Rebecca Andresen	Bill to: (if different)	
Company Name:	ARCADIS	Company Name:	
Address:	1004 N. Big Spring St.	Address:	
City, State ZIP:	Midland, TX. 79701	City, State ZIP:	
Phone:	303-471-3477 Email:	andrew.demarco@arcadis.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: New Mexico
Reporting:Level II ☒ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☒ ADaPT ☐ Other:

Project Name:	Eunice Project- S. Eunice	Turn Around	
Project Number:	30049612	Routine ☐	
P.O. Number:		Rush:	
Sampler's Name:	Jerry Longwell/Daniel McGee	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	(Yes) No
Temperature (°C):	1.0/-0.9	Thermometer ID	
Received Intact:	(Yes) No	IR8	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (SW8015B)	Hex Chrome (SW7196A)	Dissolved Metals (SW6020_DIS): Chromium, Arsenic & Barium)	TDS (SM2540C)	Chlorides (EPA 300.0)
MW-4-W-220224	W	02/24/22	0752		9	X	X	X	X	X	X
MW-30-W-220224	W	02/24/22	0825		9	X	X	X	X	X	X
MW-2-W-220224	W	02/24/22	0912		9	X	X	X	X	X	X
MW-7-W-220224	W	02/24/22	0938		9	X	X	X	X	X	X
MW-2-W-220224	W	02/24/22	1016		9	X	X	X	X	X	X
MW-29-W-220224	W	02/24/22	1056		9	X	X	X	X	X	X
MW-8-W-220224	W	02/24/22	1129		9	X	X	X	X	X	X
MW-34-W-220224	W	02/24/22	1207		9	X	X	X	X	X	X
MW-6-W-220224	W	02/24/22	1257		9	X	X	X	X	X	X
DUP-3-W-220224	W	02/24/22			9	X	X	X	X	X	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2-24-22 / 1710	2		
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

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Received by OCD: 3/13/2024 8:36:42 PM

Released to Imaging: 4/30/2024 10:08:36 AM

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Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Work Order No: 11718

www.xenco.com Page 2 of 3

Project Manager:	Rebecca Andresen	Bill to: (if different)	
Company Name:	ARCADIS	Company Name:	
Address:	1004 N. Big Spring St.	Address:	
City, State ZIP:	Midland, TX. 79701	City, State ZIP:	
Phone:	303-471-3477	Email:	andrew.demarco@arcadis.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: New Mexico
Reporting:Level II [X] Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD [X] ADaPT ☐ Other:

Project Name:	Eunice Project- S. Eunice	Turn Around	
Project Number:	30049612	Routine ☐	
P.O. Number:		Rush:	
Sampler's Name:	Jerry Longwell/Daniel McGee	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	(Yes) No	
Temperature (°C):	1.0/0.9	Thermometer ID	IR 8	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.1	
Sample Custody Seals:	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (SW8015B)	Hex Chrome (SW7196A)	Dissolved Metals (SW6020_DIS): Chromium, Arsenic & Barium)	TDS (SM2540C)	Chlorides (EPA 300.0)
MWD-15-W-220224	W	2-24-22	0935	—	9	X	X	X	X	X	X
MWD-1-W-220224	W	2-24-22	1008	—	9	X	X	X	X	X	X
MWD-17-W-220224	W	2-24-22	1045	—	9	X	X	X	X	X	X
MWD-7-W-220224	W	2-24-22	1110	—	9	X	X	X	X	X	X
MWD-3-W-220224	W	2-24-22	1145	—	9	X	X	X	X	X	X
MWD-17-W-220224	W	2-24-22	1215	—	9	X	X	X	X	X	X
MW-22-W-220224	W	2-24-22	1208	—	9	X	X	X	X	X	X
RW-7-W-220224	W	2-24-22	1320	—	9	X	X	X	X	X	X
RW-6-W-220224	W	2-24-22	1348	—	9	X	X	X	X	X	X
MWD-12-220224	W	2-24-22	1440	—	9	X	X	X	X	X	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		2-24-22/1710	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

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Chain of Custody

Work Order No: 11718

XENCO LABORATORIES
Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Project Manager:	Rebecca Andresen	Bill to: (if different)	
Company Name:	ARCADIS	Company Name:	
Address:	1004 N. Big Spring St.	Address:	
City, State ZIP:	Midland, TX. 79701	City, State ZIP:	
Phone:	303-471-3477	Email:	andrew.demarco@arcadis.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: New Mexico
Reporting: Level II [X] Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD [X] ADaPT ☐ Other:

Project Name:	Eunice Project- S. Eunice	Turn Around	
Project Number:	30049612	Routine ☐	
P.O. Number:		Rush:	
Sampler's Name:	Jerry Longwell/Daniel McGee	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	(Yes) No	
Temperature (°C):	1.0 / 0.9	Thermometer ID		
Received Intact:	(Yes) No	IR 8		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (SW8015B)	Hex Chrome (SW7196A)	Dissolved Metals (SW6020_DIS): Chromium, Arsenic & Barium)	TDS (SM2540C)	Chlorides (EPA 300.0)
MW D-5-W-220224	W	2/24/22	1335		8	X	X	X	X	X	X

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		2-24-22 / 1740	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 3/13/2024 8:36:42 PM
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Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-3885.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: john.builes@eurofinset.com	State of Origin: Texas	Page: Page 1 of 3
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 880-11718-1
Address: 200 East Sunset Rd., Suite E,	Due Date Requested: 3/2/2022			
City: El Paso	TAT Requested (days):			
State, Zip: TX, 79922				
Phone: 915-585-3443(Tel)	PO #:			
Email:	WO #:			
Project Name: Eunice Project-S.Eunice	Project #: 88000209			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-4-W-220224 (880-11718-1)	2/24/22	07:52 Central		Water			X	1	
MW-30-W-220224 (880-11718-2)	2/24/22	08:29 Central		Water			X	1	
MW-9-W-220224 (880-11718-3)	2/24/22	09:12 Central		Water			X	1	
WW-7-W-220224 (880-11718-4)	2/24/22	09:39 Central		Water			X	1	
WW-2-W-220224 (880-11718-5)	2/24/22	10:16 Central		Water			X	1	
MW-29-W-220224 (880-11718-6)	2/24/22	10:56 Central		Water			X	1	
MW-8-W-220224 (880-11718-7)	2/24/22	11:29 Central		Water			X	1	
MW-34-W-220224 (880-11718-8)	2/24/22	12:09 Central		Water			X	1	
MWD-6-W-220224 (880-11718-9)	2/24/22	12:57 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by	Date/Time: 02-28-22 10:30	Company: EPSO
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:	

Ver: 06/08/2021

Received by OCD: 3/13/2024 8:36:42 PM
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Released to Imaging: 4/30/2024 10:08:36 AM

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-3885.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: john.builes@eurofinset.com	State of Origin: Texas	Page: Page 2 of 3
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 880-11718-1
Address: 200 East Sunset Rd., Suite E,	Due Date Requested: 3/2/2022			
City: El Paso	TAT Requested (days):			
State, Zip: TX, 79922				
Phone: 915-585-3443(Tel)	PO #:			
Email:	WO #:			
Project Name: Eunice Project-S.Eunice	Project #: 88000209			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd	Total Number of containers	Special Instructions/Note:
Dup03-W-220224 (880-11718-10)	2/24/22	Central		Water			X		
MWD-15-W-220224 (880-11718-11)	2/24/22	09:35 Central		Water			X		
MWD-1-W-220224 (880-11718-12)	2/24/22	10:08 Central		Water			X		
MW-17-W-220224 (880-11718-13)	2/24/22	10:45 Central		Water			X		
MWD-7-W-220224 (880-11718-14)	2/24/22	11:10 Central		Water			X		
MWD-3-W-220224 (880-11718-15)	2/24/22	11:45 Central		Water			X		
MWD-17-W-220224 (880-11718-16)	2/24/22	12:45 Central		Water			X		
MW-22-W-220224 (880-11718-17)	2/24/22	12:08 Central		Water			X		
RW-7-W-220224 (880-11718-18)	2/24/22	13:20 Central		Water			X		

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Katerin Rodriguez				2-28-22 10:30	ELPCSO
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

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Released to Imaging: 4/30/2024 10:08:36 AM

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Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Temp: 2.4 IR ID:HOU-323
C/F:+0.2
Corrected Temp: 2.6

Chain of Custody Record

880-11718 Chain of Custody

Eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Builes, John	
Client Contact: Shipping/Receiving	Phone:	E-Mail: john.builes@eurofinset.com	Texas

Company:	Accreditations Required (See note):	Job #:
Eurofins Environment Testing South Centr	NELAP Texas	880-11718-1

Address:	Due Date Requested:	Analysis Requested	Preservation Codes:
4145 Greenbriar Dr	3/2/2022		A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other:
City: Stafford	TAT Requested (days):		
State, Zip: TX, 77477			
Phone: 281-240-4200(Tel)	PO #:		
Email:	WO #:		
Project Name: Eunice Project-S.Eunice	Project #: 88000209		
Site:	SSOW#:		

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/FIELD_FLTRD (MOD) Custom List	300_ORGFM_28D/ Chloride	Total Number of containers	Special Instructions/Note:
MW-4-W-220224 (880-11718-1)	2/24/22	07:52 Central		Water				X	X	2	
MW-30-W-220224 (880-11718-2)	2/24/22	08:29 Central		Water				X	X	2	
MW-9-W-220224 (880-11718-3)	2/24/22	09:12 Central		Water				X	X	2	
WW-7-W-220224 (880-11718-4)	2/24/22	09:39 Central		Water				X	X	2	
WW-2-W-220224 (880-11718-5)	2/24/22	10:16 Central		Water				X	X	2	
MW-29-W-220224 (880-11718-6)	2/24/22	10:56 Central		Water				X	X	2	
MW-8-W-220224 (880-11718-7)	2/24/22	11:29 Central		Water				X	X	2	
MW-34-W-220224 (880-11718-8)	2/24/22	12:09 Central		Water				X	X	2	
MWD-6-W-220224 (880-11718-9)	2/24/22	12:57 Central		Water				X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Adrian Rodriguez			Sandra Lopez	2/26/22 1227	Xenco
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Received by OCD: 3/13/2024 8:36:42 PM

Released to Imaging: 4/30/2024 10:08:36 AM

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Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone: 432-704-5440

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Builes John	Carrier Tracking No(s):	COC No: 880-3884.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: john.builes@eurofinset com	State of Origin: Texas	Page: Page 2 of 3
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 880-11718-1
Address: 4145 Greenbriar Dr	Due Date Requested: 3/2/2022			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Eunice Project-S.Eunice	Project #: 88000209			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	6020A/FIELD_FLTRD (MOD) Custom List	300_ORGFM_28D/ Chloride	Special Instructions/Note:
Dup03-W-220224 (880-11718-10)	2/24/22	Central		Water	X	X	
MWD-15-W-220224 (880-11718-11)	2/24/22	09:35 Central		Water	X	X	
MWD-1-W-220224 (880-11718-12)	2/24/22	10:08 Central		Water	X	X	
MW-17-W-220224 (880-11718-13)	2/24/22	10:45 Central		Water	X	X	
MWD-7-W-220224 (880-11718-14)	2/24/22	11 10 Central		Water	X	X	
MWD-3-W-220224 (880-11718-15)	2/24/22	11:45 Central		Water	X	X	
MWD-17-W-220224 (880-11718-16)	2/24/22	12:45 Central		Water	X	X	
MW-22-W-220224 (880-11718-17)	2/24/22	12:08 Central		Water	X	X	
RW-7-W-220224 (880-11718-18)	2/24/22	13:20 Central		Water	X	X	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]			[signature]	2/26/22 1227	Xenco
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver 06/08/2021

Received by OCD: 3/13/2024 8:36:42 PM
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2/24/2023 (Rev. 2)
Released to Imaging: 4/30/2024 10:08:36 AM

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Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone: 432-704-5440

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-3884.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: john.builes@eurofinset.com	State of Origin: Texas	Page: Page 3 of 3
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 880-11718-1
Address: 4145 Greenbriar Dr	Due Date Requested: 3/2/2022			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Eunice Project-S.Eunice	Project #: 88000209			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/FIELD_FLTRD (MOD) Custom List	300_ORGFM_28D/ Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
RW-6-W-220224 (880-11718-19)	2/24/22	13:48 Central		Water			X	X	2	
MWD-12-W-220224 (880-11718-20)	2/24/22	14:40 Central		Water			X	X	2	
MWD-5-W-220224 (880-11718-21)	2/24/22	13:35 Central		Water			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Patricia Rodriguez				2/26/22 1227	Xenco
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Received by OCD: 3/13/2024 8:36:42 PM

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2/24/2023 (Rev. 2)

Released to Imaging: 4/30/2024 10:08:36 AM

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Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Temp: 2.4 IR ID:HOU-323
C/F+0.2
Corrected Temp: 2.6

Chain of Custody Record

880-11718 Chain of Custody

fins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Builes, John	1.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: john builes@eurofinset.com	State of Origin: Texas — of 3
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas	Job #: 880-11718-1
Address: 4145 Greenbriar Dr	Due Date Requested: 3/2/2022	Analysis Requested	Preservation Codes:
City: Stafford	TAT Requested (days):		A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)
State, Zip: TX, 77477			
Phone: 281-240-4200(Tel)	PO #:		Other:
Email:	WO #:		
Project Name: Eunice Project-S.Eunice	Project #: 88000209		
Site:	SSOW#:		

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/FIELD_FLTRD (MOD) Custom List	300_ORGFM_28D/ Chloride	Total Number of Containers	Special Instructions/Note:
			Preservation Code:							
MW-4-W-220224 (880-11718-1)	2/24/22	07:52 Central		Water			X	X	2	
MW-30-W-220224 (880-11718-2)	2/24/22	08:29 Central		Water			X	X	2	
MW-9-W-220224 (880-11718-3)	2/24/22	09:12 Central		Water			X	X	2	
WW-7-W-220224 (880-11718-4)	2/24/22	09:39 Central		Water			X	X	2	
WW-2-W-220224 (880-11718-5)	2/24/22	10:16 Central		Water			X	X	2	
MW-29-W-220224 (880-11718-6)	2/24/22	10:56 Central		Water			X	X	2	
MW-8-W-220224 (880-11718-7)	2/24/22	11:29 Central		Water			X	X	2	
MW-34-W-220224 (880-11718-8)	2/24/22	12:09 Central		Water			X	X	2	
MWD-6-W-220224 (880-11718-9)	2/24/22	12.57 Central		Water			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Adrian Rodriguez			Sandra Lopez	2/26/22 1227	Xenco
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Received by OCD: 3/13/2024 8:36:42 PM

Released to Imaging: 4/30/2024 10:08:36 AM

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Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone: 432-704-5440

Temp: 2.4 IR ID:HOU-323
C/F:+0.2
Corrected Temp: 2.6

Chain of Custody Record

880-11718 Chain of Custody

fins Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Builes, John	1.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: john builes@eurofinset.com	Texas	of 3
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas	Job #: 880-11718-1
Address: 4145 Greenbriar Dr	Due Date Requested: 3/2/2022		
City: Stafford	TAT Requested (days):		
State, Zip: TX, 77477			
Phone: 281-240-4200(Tel)	PO #:		
Email:	WO #:		
Project Name: Eunice Project-S.Eunice	Project #: 88000209		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)
Other

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/FIELD_FLTRD (MOD) Custom List	300_ORGFM_28D/ Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-4-W-220224 (880-11718-1)	2/24/22	07:52 Central		Water			X	X	2	
MW-30-W-220224 (880-11718-2)	2/24/22	08:29 Central		Water			X	X	2	
MW-9-W-220224 (880-11718-3)	2/24/22	09:12 Central		Water			X	X	2	
WW-7-W-220224 (880-11718-4)	2/24/22	09:39 Central		Water			X	X	2	
WW-2-W-220224 (880-11718-5)	2/24/22	10:16 Central		Water			X	X	2	
MW-29-W-220224 (880-11718-6)	2/24/22	10:56 Central		Water			X	X	2	
MW-8-W-220224 (880-11718-7)	2/24/22	11:29 Central		Water			X	X	2	
MW-34-W-220224 (880-11718-8)	2/24/22	12:09 Central		Water			X	X	2	
MWD-6-W-220224 (880-11718-9)	2/24/22	12:57 Central		Water			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Patricia Rodriguez			Sandra Lopez	2/26/22 1227	Xenco
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Received by OCD: 3/13/2024 8:36:42 PM

Released to Imaging: 4/30/2024 10:08:36 AM

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 880-11718-1
SDG Number: 30049612

Login Number: 11718
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 880-11718-1
SDG Number: 30049612

Login Number: 11718
List Number: 3
Creator: Aparicio, Niria

List Source: Eurofins El Paso
List Creation: 02/28/22 11:11 AM

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 880-11718-1
SDG Number: 30049612

Login Number: 11718
List Number: 2
Creator: Torres, Sandra

List Source: Eurofins Houston
List Creation: 02/26/22 02:56 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Andrew DeMarco
ARCADIS U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 3/15/2023 3:18:30 PM

JOB DESCRIPTION

Eunice Project - South Eunice

JOB NUMBER

880-25343-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 4/30/2024 10:08:56 AM

my EOL

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
3/15/2023 3:18:30 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Laboratory Job ID: 880-25343-1

Table of Contents

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
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.
¤	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)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Job ID: 880-25343-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-25343-1

Receipt
The samples were received on 3/1/2023 6:08 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-48623 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 860-92862 and analytical batch 860-92785 was outside the upper control limits.

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

HPLC/IC
Method 300_ORGFM_28D: The method blank for analytical batch 860-93213 contained Chloride above the method detection limit (MDL) . Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-93213 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFM_28D: The method blank for analytical batch 860-93441 contained Chloride above the method detection limit (MDL) . Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

Metals
Method 6020A: The following samples were diluted due to the nature of the sample matrix: MW-16-W-230301 (880-25343-2) and MW-36-W-230301 (880-25343-3). Elevated reporting limits (RLs) are provided.

Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-34-W-230301 (880-25343-5), MWD-6-W-230301 (880-25343-6), MW-9-W-230301 (880-25343-8), WW-7-W-230301 (880-25343-9), WW-2-W-230301 (880-25343-10), MW-29-W-230301 (880-25343-12), MW-37-W-230301 (880-25343-16), MW-32-W-230301 (880-25343-18), MWD-5-W-230301 (880-25343-19) and DUP-2-W-230301 (880-25343-21). Elevated reporting limits (RLs) are provided.

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

General Chemistry
Method 7196A: Sample read as 0.004484 mg/L, but did not change color. Yellow color indicating an iron interferent. Sample reported as 0.MW-34-W-230301 (880-25343-5)

Method 7196A: Sample had reading but did not change color. Yellow color indicating an iron interferent. Sample reported as 0.880-25343-a-11 - .0063 mg/L880-25343-a-12 - .0049 mg/L880-25343-a-14 - .0044 mg/L880-25343-a-16 - .0030 mg/L880-25343-a-18 -

Released to Imaging: 4/30/2024 10:08:36 AM

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Job ID: 880-25343-1 (Continued)

Laboratory: Eurofins Midland (Continued)

.0087 mg/L

Method 7196A: Sample had reading but did not change color. Yellow color indicating an iron interferent. Sample reported as 0.880-25343-a-21 - .0068 mg/L

Method 7196A: Holding flag due to no sampling time DUP-1-W-230301 (880-25343-20) and DUP-2-W-230301 (880-25343-21).

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

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-15-W-230301 **Lab Sample ID: 880-25343-1**
Date Collected: 03/01/23 07:48 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 05:30	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 05:30	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 05:30	1
m-Xylene & p-Xylene	**0.00179**	**J**	0.00400	0.000629	mg/L			03/15/23 05:30	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 05:30	1
Xylenes, Total	**0.00179**	**J**	0.00400	0.000642	mg/L			03/15/23 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*03/15/23 05:30*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*		*03/15/23 05:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00179**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.941	U	4.76	0.941	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.941	U	4.76	0.941	mg/L		03/09/23 15:58	03/10/23 18:48	1
Diesel Range Organics (Over C10-C28)	<0.941	U	4.76	0.941	mg/L		03/09/23 15:58	03/10/23 18:48	1
OII Range Organics (Over C28-C36)	<0.908	U	4.76	0.908	mg/L		03/09/23 15:58	03/10/23 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 15:58*	*03/10/23 18:48*	*1*
o-Terphenyl	*110*		*70 - 135*	*03/09/23 15:58*	*03/10/23 18:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1440**	**B**	5.00	2.00	mg/L			03/09/23 06:09	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0121**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 22:35	1
Barium	**0.0463**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 22:35	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 22:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4280**		40.0	40.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-16-W-230301
Lab Sample ID: 880-25343-2
Date Collected: 03/01/23 08:19
Matrix: Water
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 05:57	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 05:57	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 05:57	1
m-Xylene & p-Xylene	**0.00160**	**J**	0.00400	0.000629	mg/L			03/15/23 05:57	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 05:57	1
Xylenes, Total	**0.00160**	**J**	0.00400	0.000642	mg/L			03/15/23 05:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*03/15/23 05:57*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*		*03/15/23 05:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00160**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.915	U	4.63	0.915	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.915	U	4.63	0.915	mg/L		03/09/23 15:58	03/10/23 19:08	1
Diesel Range Organics (Over C10-C28)	<0.915	U	4.63	0.915	mg/L		03/09/23 15:58	03/10/23 19:08	1
OII Range Organics (Over C28-C36)	<0.883	U	4.63	0.883	mg/L		03/09/23 15:58	03/10/23 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 135*	*03/09/23 15:58*	*03/10/23 19:08*	*1*
o-Terphenyl	*110*		*70 - 135*	*03/09/23 15:58*	*03/10/23 19:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1790**	**B**	5.00	2.00	mg/L			03/09/23 06:33	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0129**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 22:56	1
Barium	**0.0478**	**J**	0.0800	0.0268	mg/L		03/07/23 08:30	03/07/23 23:50	20
Chromium	**0.0979**		0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 22:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4840**		40.0	40.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.0843**		0.0100	0.00270	mg/L			03/02/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-36-W-230301 **Lab Sample ID: 880-25343-3**
Date Collected: 03/01/23 08:48 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 06:23	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 06:23	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 06:23	1
m-Xylene & p-Xylene	**0.00159**	**J**	0.00400	0.000629	mg/L			03/15/23 06:23	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 06:23	1
Xylenes, Total	**0.00159**	**J**	0.00400	0.000642	mg/L			03/15/23 06:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*03/15/23 06:23*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*		*03/15/23 06:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00159**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.950	U	4.81	0.950	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.950	U	4.81	0.950	mg/L		03/09/23 15:58	03/10/23 19:28	1
Diesel Range Organics (Over C10-C28)	<0.950	U	4.81	0.950	mg/L		03/09/23 15:58	03/10/23 19:28	1
OII Range Organics (Over C28-C36)	<0.917	U	4.81	0.917	mg/L		03/09/23 15:58	03/10/23 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 135*	*03/09/23 15:58*	*03/10/23 19:28*	*1*
o-Terphenyl	*107*		*70 - 135*	*03/09/23 15:58*	*03/10/23 19:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**434**	**B**	0.500	0.200	mg/L			03/09/23 06:44	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00903**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 22:59	1
Barium	**0.119**		0.0800	0.0268	mg/L		03/07/23 08:30	03/07/23 23:52	20
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 22:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1310**		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-35-W-230301 **Lab Sample ID: 880-25343-4**
Date Collected: 03/01/23 09:08 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 06:48	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 06:48	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 06:48	1
m-Xylene & p-Xylene	**0.00160**	**J**	0.00400	0.000629	mg/L			03/15/23 06:48	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 06:48	1
Xylenes, Total	**0.00160**	**J**	0.00400	0.000642	mg/L			03/15/23 06:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*03/15/23 06:48*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*		*03/15/23 06:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00160**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.893	U	4.52	0.893	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.893	U	4.52	0.893	mg/L		03/09/23 15:58	03/10/23 19:48	1
Diesel Range Organics (Over C10-C28)	<0.893	U	4.52	0.893	mg/L		03/09/23 15:58	03/10/23 19:48	1
OII Range Organics (Over C28-C36)	<0.862	U	4.52	0.862	mg/L		03/09/23 15:58	03/10/23 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 15:58*	*03/10/23 19:48*	*1*
o-Terphenyl	*113*		*70 - 135*	*03/09/23 15:58*	*03/10/23 19:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**139**	**B**	0.500	0.200	mg/L			03/09/23 03:22	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00901**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:01	1
Barium	**0.106**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 23:01	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**934**		10.0	10.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-34-W-230301 **Lab Sample ID: 880-25343-5**
Date Collected: 03/01/23 09:22 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 07:15	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 07:15	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 07:15	1
m-Xylene & p-Xylene	**0.00161**	**J**	0.00400	0.000629	mg/L			03/15/23 07:15	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 07:15	1
Xylenes, Total	**0.00161**	**J**	0.00400	0.000642	mg/L			03/15/23 07:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/15/23 07:15*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*		*03/15/23 07:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00161**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**0.992**	**J**	4.98	0.985	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**0.992**	**J**	4.98	0.985	mg/L		03/09/23 15:58	03/10/23 20:07	1
Diesel Range Organics (Over C10-C28)	<0.985	U	4.98	0.985	mg/L		03/09/23 15:58	03/10/23 20:07	1
OII Range Organics (Over C28-C36)	<0.950	U	4.98	0.950	mg/L		03/09/23 15:58	03/10/23 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 135*	*03/09/23 15:58*	*03/10/23 20:07*	*1*
o-Terphenyl	*89*		*70 - 135*	*03/09/23 15:58*	*03/10/23 20:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**239**	**B**	0.500	0.200	mg/L			03/09/23 07:32	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000939**	**J**	0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:03	1
Barium	**4.69**		0.0800	0.0268	mg/L		03/07/23 08:30	03/08/23 13:03	20
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1620**		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-6-W-230301
Lab Sample ID: 880-25343-6
Date Collected: 03/01/23 09:50
Matrix: Water
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00115**	**J *1**	0.00200	0.000408	mg/L			03/15/23 07:42	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 07:42	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 07:42	1
m-Xylene & p-Xylene	**0.00159**	**J**	0.00400	0.000629	mg/L			03/15/23 07:42	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 07:42	1
Xylenes, Total	**0.00159**	**J**	0.00400	0.000642	mg/L			03/15/23 07:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*03/15/23 07:42*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*		*03/15/23 07:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00274**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.923	U	4.67	0.923	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.923	U	4.67	0.923	mg/L		03/09/23 15:58	03/10/23 20:47	1
Diesel Range Organics (Over C10-C28)	<0.923	U	4.67	0.923	mg/L		03/09/23 15:58	03/10/23 20:47	1
OII Range Organics (Over C28-C36)	<0.891	U	4.67	0.891	mg/L		03/09/23 15:58	03/10/23 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 15:58*	*03/10/23 20:47*	*1*
o-Terphenyl	*116*		*70 - 135*	*03/09/23 15:58*	*03/10/23 20:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**	**B**	0.500	0.200	mg/L			03/09/23 03:58	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00255**	**J**	0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:06	1
Barium	**0.832**		0.0400	0.0134	mg/L		03/07/23 08:30	03/08/23 13:08	10
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1170**		10.0	10.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-30-W-230301 **Lab Sample ID: 880-25343-7**
Date Collected: 03/01/23 10:05 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 08:09	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 08:09	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 08:09	1
m-Xylene & p-Xylene	**0.00159**	**J**	0.00400	0.000629	mg/L			03/15/23 08:09	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 08:09	1
Xylenes, Total	**0.00159**	**J**	0.00400	0.000642	mg/L			03/15/23 08:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*03/15/23 08:09*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*		*03/15/23 08:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00159**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.859	U	4.35	0.859	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.859	U	4.35	0.859	mg/L		03/09/23 15:58	03/10/23 21:06	1
Diesel Range Organics (Over C10-C28)	<0.859	U	4.35	0.859	mg/L		03/09/23 15:58	03/10/23 21:06	1
OII Range Organics (Over C28-C36)	<0.829	U	4.35	0.829	mg/L		03/09/23 15:58	03/10/23 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 15:58*	*03/10/23 21:06*	*1*
o-Terphenyl	*110*		*70 - 135*	*03/09/23 15:58*	*03/10/23 21:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**276**	**B**	0.500	0.200	mg/L			03/09/23 04:10	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00830**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:08	1
Barium	**0.328**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 23:08	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1320**		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-9-W-230301 **Lab Sample ID: 880-25343-8**
Date Collected: 03/01/23 10:22 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 08:41	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 08:41	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 08:41	1
m-Xylene & p-Xylene	**0.00159**	**J**	0.00400	0.000629	mg/L			03/15/23 08:41	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 08:41	1
Xylenes, Total	**0.00159**	**J**	0.00400	0.000642	mg/L			03/15/23 08:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*03/15/23 08:41*	*1*
1,4-Difluorobenzene (Surr)	*8*	*S1-*	*70 - 130*		*03/15/23 08:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00159**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1.05**	**J**	4.69	0.926	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.05**	**J**	4.69	0.926	mg/L		03/09/23 15:58	03/10/23 21:26	1
Diesel Range Organics (Over C10-C28)	<0.926	U	4.69	0.926	mg/L		03/09/23 15:58	03/10/23 21:26	1
OII Range Organics (Over C28-C36)	<0.894	U	4.69	0.894	mg/L		03/09/23 15:58	03/10/23 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 135*	*03/09/23 15:58*	*03/10/23 21:26*	*1*
o-Terphenyl	*106*		*70 - 135*	*03/09/23 15:58*	*03/10/23 21:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**165**	**B**	0.500	0.200	mg/L			03/09/23 04:22	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0107**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:10	1
Barium	**8.89**		0.400	0.134	mg/L		03/07/23 08:30	03/08/23 13:10	100
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1140**		10.0	10.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: WW-7-W-230301
Lab Sample ID: 880-25343-9
Date Collected: 03/01/23 10:35
Matrix: Water
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 09:11	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 09:11	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 09:11	1
m-Xylene & p-Xylene	**0.00160**	**J**	0.00400	0.000629	mg/L			03/15/23 09:11	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 09:11	1
Xylenes, Total	**0.00160**	**J**	0.00400	0.000642	mg/L			03/15/23 09:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/15/23 09:11*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*03/15/23 09:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00160**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.895	U	4.53	0.895	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.895	U	4.53	0.895	mg/L		03/09/23 15:58	03/10/23 21:46	1
Diesel Range Organics (Over C10-C28)	<0.895	U	4.53	0.895	mg/L		03/09/23 15:58	03/10/23 21:46	1
OII Range Organics (Over C28-C36)	<0.864	U	4.53	0.864	mg/L		03/09/23 15:58	03/10/23 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 135*	*03/09/23 15:58*	*03/10/23 21:46*	*1*
o-Terphenyl	*114*		*70 - 135*	*03/09/23 15:58*	*03/10/23 21:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**252**	**B**	0.500	0.200	mg/L			03/09/23 04:34	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.000764**	**J**	0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:13	1
Barium	**0.641**		0.0400	0.0134	mg/L		03/07/23 08:30	03/08/23 13:22	10
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**715**		10.0	10.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: WW-2-W-230301 **Lab Sample ID: 880-25343-10**
Date Collected: 03/01/23 10:50 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 09:37	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 09:37	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 09:37	1
m-Xylene & p-Xylene	**0.00159**	**J**	0.00400	0.000629	mg/L			03/15/23 09:37	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 09:37	1
Xylenes, Total	**0.00159**	**J**	0.00400	0.000642	mg/L			03/15/23 09:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/15/23 09:37*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*		*03/15/23 09:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00159**	**J**	0.00400	0.000657	mg/L			03/15/23 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.877	U	4.44	0.877	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.877	U	4.44	0.877	mg/L		03/09/23 15:58	03/10/23 22:05	1
Diesel Range Organics (Over C10-C28)	<0.877	U	4.44	0.877	mg/L		03/09/23 15:58	03/10/23 22:05	1
OII Range Organics (Over C28-C36)	<0.846	U	4.44	0.846	mg/L		03/09/23 15:58	03/10/23 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 135*	*03/09/23 15:58*	*03/10/23 22:05*	*1*
o-Terphenyl	*111*		*70 - 135*	*03/09/23 15:58*	*03/10/23 22:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**721**	**B**	5.00	2.00	mg/L			03/09/23 08:08	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00137**	**J**	0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:15	1
Barium	**3.64**		0.0800	0.0268	mg/L		03/07/23 08:30	03/08/23 13:24	20
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1390**		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-8-W-230301
Lab Sample ID: 880-25343-11
Date Collected: 03/01/23 12:28
Matrix: Water
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000435**	**J**	0.00200	0.000408	mg/L			03/15/23 12:52	1
Toluene	**0.000637**	**J**	0.00200	0.000367	mg/L			03/15/23 12:52	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 12:52	1
m-Xylene & p-Xylene	**0.000744**	**J**	0.00400	0.000629	mg/L			03/15/23 12:52	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			03/15/23 12:52	1
Xylenes, Total	**0.000744**	**J**	0.00400	0.000642	mg/L			03/15/23 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*03/15/23 12:52*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*		*03/15/23 12:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00182**	**J**	0.00400	0.000657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.862	U	4.36	0.862	mg/L			03/07/23 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.862	U	4.36	0.862	mg/L		03/09/23 15:58	03/10/23 22:25	1
Diesel Range Organics (Over C10-C28)	<0.862	U	4.36	0.862	mg/L		03/09/23 15:58	03/10/23 22:25	1
OII Range Organics (Over C28-C36)	<0.832	U	4.36	0.832	mg/L		03/09/23 15:58	03/10/23 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 135*	*03/09/23 15:58*	*03/10/23 22:25*	*1*
o-Terphenyl	*101*		*70 - 135*	*03/09/23 15:58*	*03/10/23 22:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**776**	**B**	5.00	2.00	mg/L			03/09/23 08:32	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0327**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:22	1
Barium	**0.0803**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 23:22	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**2560**		40.0	40.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-29-W-230301 **Lab Sample ID: 880-25343-12**
Date Collected: 03/01/23 12:44 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0432		0.00200	0.000408	mg/L			03/15/23 13:12	1
Toluene	0.000396	J	0.00200	0.000367	mg/L			03/15/23 13:12	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 13:12	1
m-Xylene & p-Xylene	0.000711	J	0.00400	0.000629	mg/L			03/15/23 13:12	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			03/15/23 13:12	1
Xylenes, Total	0.000711	J	0.00400	0.000642	mg/L			03/15/23 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*03/15/23 13:12*	*1*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*		*03/15/23 13:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0443		0.00400	0.000657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3.54	J	4.92	0.972	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3.54	J	4.92	0.972	mg/L		03/09/23 15:58	03/10/23 22:44	1
Diesel Range Organics (Over C10-C28)	<0.972	U	4.92	0.972	mg/L		03/09/23 15:58	03/10/23 22:44	1
OII Range Organics (Over C28-C36)	<0.938	U	4.92	0.938	mg/L		03/09/23 15:58	03/10/23 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 15:58*	*03/10/23 22:44*	*1*
o-Terphenyl	*99*		*70 - 135*	*03/09/23 15:58*	*03/10/23 22:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	312	B	0.500	0.200	mg/L			03/09/23 08:44	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00262	J	0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:24	1
Barium	8.61		0.400	0.134	mg/L		03/07/23 08:30	03/08/23 13:29	100
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1370		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-13-W-230301
Lab Sample ID: 880-25343-13
Date Collected: 03/01/23 13:03
Matrix: Water
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000436**	**J**	0.00200	0.000408	mg/L			03/15/23 13:33	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 13:33	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 13:33	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 13:33	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			03/15/23 13:33	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*		*03/15/23 13:33*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*		*03/15/23 13:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.895	U	4.53	0.895	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.895	U	4.53	0.895	mg/L		03/09/23 15:58	03/10/23 23:04	1
Diesel Range Organics (Over C10-C28)	<0.895	U	4.53	0.895	mg/L		03/09/23 15:58	03/10/23 23:04	1
OII Range Organics (Over C28-C36)	<0.864	U	4.53	0.864	mg/L		03/09/23 15:58	03/10/23 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 135*	*03/09/23 15:58*	*03/10/23 23:04*	*1*
o-Terphenyl	*99*		*70 - 135*	*03/09/23 15:58*	*03/10/23 23:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**325**	**B**	0.500	0.200	mg/L			03/09/23 05:09	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0159**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:26	1
Barium	**0.115**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 23:26	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1120**		10.0	10.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-31-W-230301
Lab Sample ID: 880-25343-14
Date Collected: 03/01/23 13:19
Matrix: Water
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000622**	**J**	0.00200	0.000408	mg/L			03/15/23 13:53	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 13:53	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 13:53	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 13:53	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			03/15/23 13:53	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*03/15/23 13:53*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*		*03/15/23 13:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.857	U	4.34	0.857	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.857	U	4.34	0.857	mg/L		03/09/23 15:58	03/10/23 23:23	1
Diesel Range Organics (Over C10-C28)	<0.857	U	4.34	0.857	mg/L		03/09/23 15:58	03/10/23 23:23	1
OII Range Organics (Over C28-C36)	<0.827	U	4.34	0.827	mg/L		03/09/23 15:58	03/10/23 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 135*	*03/09/23 15:58*	*03/10/23 23:23*	*1*
o-Terphenyl	*102*		*70 - 135*	*03/09/23 15:58*	*03/10/23 23:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**442**	**B**	0.500	0.200	mg/L			03/09/23 10:43	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0524**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:29	1
Barium	**0.347**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 23:29	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1590**		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-14-W-230301
Lab Sample ID: 880-25343-15
Date Collected: 03/01/23 13:38
Matrix: Water
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 14:14	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 14:14	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 14:14	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 14:14	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			03/15/23 14:14	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*03/15/23 14:14*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*		*03/15/23 14:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.844	U	4.27	0.844	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.844	U	4.27	0.844	mg/L		03/09/23 15:58	03/10/23 23:43	1
Diesel Range Organics (Over C10-C28)	<0.844	U	4.27	0.844	mg/L		03/09/23 15:58	03/10/23 23:43	1
OII Range Organics (Over C28-C36)	<0.815	U	4.27	0.815	mg/L		03/09/23 15:58	03/10/23 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 15:58*	*03/10/23 23:43*	*1*
o-Terphenyl	*106*		*70 - 135*	*03/09/23 15:58*	*03/10/23 23:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**468**	**B**	0.500	0.200	mg/L			03/09/23 11:30	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0102**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:31	1
Barium	**0.104**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 23:31	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1710**		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-37-W-230301
Lab Sample ID: 880-25343-16
Date Collected: 03/01/23 14:03
Matrix: Water
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 14:34	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 14:34	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 14:34	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 14:34	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			03/15/23 14:34	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/15/23 14:34*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*		*03/15/23 14:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.956	U	4.84	0.956	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.956	U	4.84	0.956	mg/L		03/09/23 15:58	03/11/23 00:22	1
Diesel Range Organics (Over C10-C28)	<0.956	U	4.84	0.956	mg/L		03/09/23 15:58	03/11/23 00:22	1
OII Range Organics (Over C28-C36)	<0.923	U	4.84	0.923	mg/L		03/09/23 15:58	03/11/23 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 135*	*03/09/23 15:58*	*03/11/23 00:22*	*1*
o-Terphenyl	*101*		*70 - 135*	*03/09/23 15:58*	*03/11/23 00:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**326**	**B**	0.500	0.200	mg/L			03/09/23 05:21	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00864**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:33	1
Barium	**0.615**		0.0400	0.0134	mg/L		03/07/23 08:30	03/08/23 13:34	10
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1140**		10.0	10.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-38-W-230301
Lab Sample ID: 880-25343-17
Date Collected: 03/01/23 14:23
Matrix: Water
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 14:55	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 14:55	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 14:55	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 14:55	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			03/15/23 14:55	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*03/15/23 14:55*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*		*03/15/23 14:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.975	U	4.93	0.975	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.975	U	4.93	0.975	mg/L		03/09/23 15:58	03/11/23 00:42	1
Diesel Range Organics (Over C10-C28)	<0.975	U	4.93	0.975	mg/L		03/09/23 15:58	03/11/23 00:42	1
OII Range Organics (Over C28-C36)	<0.941	U	4.93	0.941	mg/L		03/09/23 15:58	03/11/23 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 135*	*03/09/23 15:58*	*03/11/23 00:42*	*1*
o-Terphenyl	*104*		*70 - 135*	*03/09/23 15:58*	*03/11/23 00:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1030**	**B**	5.00	2.00	mg/L			03/09/23 12:06	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00699**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:36	1
Barium	**0.0948**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 23:36	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**2730**		40.0	40.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-32-W-230301 **Lab Sample ID: 880-25343-18**
Date Collected: 03/01/23 14:45 **Matrix: Water**
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.400**		0.00200	0.000408	mg/L			03/15/23 15:15	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 15:15	1
Ethylbenzene	**0.000798**	**J**	0.00200	0.000657	mg/L			03/15/23 15:15	1
m-Xylene & p-Xylene	**0.00171**	**J**	0.00400	0.000629	mg/L			03/15/23 15:15	1
o-Xylene	**0.00155**	**J *+**	0.00200	0.000642	mg/L			03/15/23 15:15	1
Xylenes, Total	**0.00326**	**J**	0.00400	0.000642	mg/L			03/15/23 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*03/15/23 15:15*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*		*03/15/23 15:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.404**		0.00400	0.000657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1.58**	**J**	4.62	0.912	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.58**	**J**	4.62	0.912	mg/L		03/09/23 15:58	03/11/23 01:01	1
Diesel Range Organics (Over C10-C28)	<0.912	U	4.62	0.912	mg/L		03/09/23 15:58	03/11/23 01:01	1
OII Range Organics (Over C28-C36)	<0.880	U	4.62	0.880	mg/L		03/09/23 15:58	03/11/23 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 135*	*03/09/23 15:58*	*03/11/23 01:01*	*1*
o-Terphenyl	*103*		*70 - 135*	*03/09/23 15:58*	*03/11/23 01:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**869**	**B**	5.00	2.00	mg/L			03/09/23 12:30	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0529**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:38	1
Barium	**2.71**		0.0800	0.0268	mg/L		03/07/23 08:30	03/08/23 13:36	20
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**2940**		40.0	40.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25343-1

Client Sample ID: MWD-5-W-230301

Date Collected: 03/01/23 14:58
Date Received: 03/01/23 18:08

Lab Sample ID: 880-25343-19

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.35**		0.0200	0.00408	mg/L			03/15/23 15:36	10
Toluene	<0.00367	U	0.0200	0.00367	mg/L			03/15/23 15:36	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			03/15/23 15:36	10
m-Xylene & p-Xylene	<0.00629	U	0.0400	0.00629	mg/L			03/15/23 15:36	10
o-Xylene	<0.00642	U *+	0.0200	0.00642	mg/L			03/15/23 15:36	10
Xylenes, Total	<0.00642	U	0.0400	0.00642	mg/L			03/15/23 15:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*03/15/23 15:36*	*10*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*		*03/15/23 15:36*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**3.35**		0.0400	0.00657	mg/L			03/15/23 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**12.9**		4.90	0.969	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**8.89**		4.90	0.969	mg/L		03/09/23 15:58	03/11/23 01:21	1
Diesel Range Organics (Over C10-C28)	**4.00**	**J**	4.90	0.969	mg/L		03/09/23 15:58	03/11/23 01:21	1
OII Range Organics (Over C28-C36)	<0.935	U	4.90	0.935	mg/L		03/09/23 15:58	03/11/23 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 15:58*	*03/11/23 01:21*	*1*
o-Terphenyl	*94*		*70 - 135*	*03/09/23 15:58*	*03/11/23 01:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**573**	**B**	5.00	2.00	mg/L			03/09/23 12:54	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0129**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:40	1
Barium	**8.06**		0.400	0.134	mg/L		03/07/23 08:30	03/08/23 13:39	100
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**2180**		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 09:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: DUP-1-W-230301
Lab Sample ID: 880-25343-20
Date Collected: 03/01/23 00:00
Matrix: Water
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 11:22	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 11:22	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 11:22	1
m-Xylene & p-Xylene	**0.00168**	**J**	0.00400	0.000629	mg/L			03/15/23 11:22	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 11:22	1
Xylenes, Total	**0.00168**	**J**	0.00400	0.000642	mg/L			03/15/23 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*03/15/23 11:22*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*		*03/15/23 11:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00168**	**J**	0.00400	0.000657	mg/L			03/15/23 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.912	U	4.62	0.912	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.912	U	4.62	0.912	mg/L		03/07/23 15:08	03/07/23 20:39	1
Diesel Range Organics (Over C10-C28)	<0.912	U	4.62	0.912	mg/L		03/07/23 15:08	03/07/23 20:39	1
OII Range Organics (Over C28-C36)	<0.880	U	4.62	0.880	mg/L		03/07/23 15:08	03/07/23 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 135*	*03/07/23 15:08*	*03/07/23 20:39*	*1*
o-Terphenyl	*99*		*70 - 135*	*03/07/23 15:08*	*03/07/23 20:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1400**	**B**	5.00	2.00	mg/L			03/09/23 13:17	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0118**		0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 23:43	1
Barium	**0.0469**		0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 23:43	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 23:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4230**		40.0	40.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U H	0.0100	0.00270	mg/L			03/02/23 09:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: DUP-2-W-230301
Lab Sample ID: 880-25343-21
Date Collected: 03/01/23 00:00
Matrix: Water
Date Received: 03/01/23 18:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00355**	**F1**	0.00200	0.000408	mg/L			03/15/23 05:51	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 05:51	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 05:51	1
m-Xylene & p-Xylene	<0.000629	U F1	0.00400	0.000629	mg/L			03/15/23 05:51	1
o-Xylene	**0.000901**	**J F1 *+**	0.00200	0.000642	mg/L			03/15/23 05:51	1
Xylenes, Total	**0.000901**	**J F1**	0.00400	0.000642	mg/L			03/15/23 05:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*03/15/23 05:51*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*		*03/15/23 05:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00445**		0.00400	0.000657	mg/L			03/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2.50**	**J**	4.56	0.901	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.36**	**J**	4.56	0.901	mg/L		03/07/23 15:08	03/07/23 20:58	1
Diesel Range Organics (Over C10-C28)	**1.14**	**J**	4.56	0.901	mg/L		03/07/23 15:08	03/07/23 20:58	1
OII Range Organics (Over C28-C36)	<0.869	U	4.56	0.869	mg/L		03/07/23 15:08	03/07/23 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 135*	*03/07/23 15:08*	*03/07/23 20:58*	*1*
o-Terphenyl	*114*		*70 - 135*	*03/07/23 15:08*	*03/07/23 20:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**242**	**B**	0.500	0.200	mg/L			03/09/23 20:08	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00106**	**J**	0.00400	0.000290	mg/L		03/07/23 10:00	03/07/23 21:05	1
Barium	**4.86**		0.200	0.0671	mg/L		03/07/23 10:00	03/08/23 12:58	50
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 10:00	03/07/23 21:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1530**		20.0	20.0	mg/L			03/07/23 09:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U H	0.0100	0.00270	mg/L			03/02/23 09:00	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-25343-1	MW-15-W-230301	110	89
880-25343-1 MS	MW-15-W-230301	104	107
880-25343-1 MSD	MW-15-W-230301	106	107
880-25343-2	MW-16-W-230301	104	86
880-25343-3	MW-36-W-230301	104	76
880-25343-4	MW-35-W-230301	105	91
880-25343-5	MW-34-W-230301	103	93
880-25343-6	MWD-6-W-230301	99	94
880-25343-7	MW-30-W-230301	110	97
880-25343-8	MW-9-W-230301	104	8 S1-
880-25343-9	WW-7-W-230301	101	98
880-25343-10	WW-2-W-230301	103	91
880-25343-11	MW-8-W-230301	81	77
880-25343-12	MW-29-W-230301	88	128
880-25343-13	MW-13-W-230301	79	73
880-25343-14	MW-31-W-230301	88	80
880-25343-15	MW-14-W-230301	82	80
880-25343-16	MW-37-W-230301	108	78
880-25343-17	MW-38-W-230301	84	71
880-25343-18	MW-32-W-230301	119	125
880-25343-19	MWD-5-W-230301	82	120
880-25343-20	DUP-1-W-230301	98	90
880-25343-21	DUP-2-W-230301	99	114
880-25343-21 MS	DUP-2-W-230301	141 S1+	139 S1+
880-25343-21 MSD	DUP-2-W-230301	141 S1+	135 S1+
LCS 880-48575/34	Lab Control Sample	97	104
LCS 880-48623/34	Lab Control Sample	141 S1+	97
LCSD 880-48575/35	Lab Control Sample Dup	107	112
LCSD 880-48623/35	Lab Control Sample Dup	129	98
MB 880-48335/5-A	Method Blank	61 S1-	89
MB 880-48336/5-A	Method Blank	90	84
MB 880-48575/39	Method Blank	65 S1-	89
MB 880-48623/39	Method Blank	85	82

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
880-25343-1	MW-15-W-230301	101	110
880-25343-2	MW-16-W-230301	99	110
880-25343-3	MW-36-W-230301	100	107
880-25343-4	MW-35-W-230301	101	113
880-25343-5	MW-34-W-230301	92	89
880-25343-6	MWD-6-W-230301	101	116

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)										
880-25343-7	MW-30-W-230301	101	110										
880-25343-8	MW-9-W-230301	99	106										
880-25343-9	WW-7-W-230301	105	114										
880-25343-10	WW-2-W-230301	103	111										
880-25343-11	MW-8-W-230301	100	101										
880-25343-12	MW-29-W-230301	101	99										
880-25343-13	MW-13-W-230301	102	99										
880-25343-14	MW-31-W-230301	100	102										
880-25343-15	MW-14-W-230301	101	106										
880-25343-16	MW-37-W-230301	99	101										
880-25343-17	MW-38-W-230301	102	104										
880-25343-18	MW-32-W-230301	99	103										
880-25343-19	MWD-5-W-230301	101	94										
880-25343-20	DUP-1-W-230301	87	99										
880-25343-21	DUP-2-W-230301	97	114										
LCS 860-92862/2-A	Lab Control Sample	109	128										
LCS 860-93478/2-A	Lab Control Sample	118	128										
LCSD 860-92862/3-A	Lab Control Sample Dup	93	130										
LCSD 860-93478/3-A	Lab Control Sample Dup	108	121										
MB 860-92862/1-A	Method Blank	130	167 S1+										
MB 860-93478/1-A	Method Blank	118	120										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48335/5-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 48575 **Prep Batch: 48335**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/10/23 14:49	03/14/23 15:26	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/10/23 14:49	03/14/23 15:26	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/10/23 14:49	03/14/23 15:26	1
m-Xylene & p-Xylene	0.001585	J	0.00400	0.000629	mg/L		03/10/23 14:49	03/14/23 15:26	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/10/23 14:49	03/14/23 15:26	1
Xylenes, Total	0.001585	J	0.00400	0.000642	mg/L		03/10/23 14:49	03/14/23 15:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*03/10/23 14:49*	*03/14/23 15:26*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/10/23 14:49*	*03/14/23 15:26*	*1*

Lab Sample ID: MB 880-48336/5-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 48623 **Prep Batch: 48336**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/10/23 14:51	03/14/23 18:57	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/10/23 14:51	03/14/23 18:57	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/10/23 14:51	03/14/23 18:57	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		03/10/23 14:51	03/14/23 18:57	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/10/23 14:51	03/14/23 18:57	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		03/10/23 14:51	03/14/23 18:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*03/10/23 14:51*	*03/14/23 18:57*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*03/10/23 14:51*	*03/14/23 18:57*	*1*

Lab Sample ID: MB 880-48575/39 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 48575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 05:03	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 05:03	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 05:03	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 05:03	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 05:03	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 05:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*		*03/15/23 05:03*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*		*03/15/23 05:03*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25343-1

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

Lab Sample ID: LCS 880-48575/34
Matrix: Water
Analysis Batch: 48575

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08598		mg/L		86	70 - 130		
Toluene			0.100	0.07419		mg/L		74	70 - 130		
Ethylbenzene			0.100	0.08449		mg/L		84	70 - 130		
m-Xylene & p-Xylene			0.200	0.1756		mg/L		88	70 - 130		
o-Xylene			0.100	0.08688		mg/L		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-48575/35
Matrix: Water
Analysis Batch: 48575

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1079	*1	mg/L		108	70 - 130	23	20
Toluene			0.100	0.08788		mg/L		88	70 - 130	17	20
Ethylbenzene			0.100	0.09453		mg/L		95	70 - 130	11	20
m-Xylene & p-Xylene			0.200	0.1962		mg/L		98	70 - 130	11	20
o-Xylene			0.100	0.09739		mg/L		97	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-25343-1 MS
Matrix: Water
Analysis Batch: 48575

Client Sample ID: MW-15-W-230301
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.000408	U *1	0.100	0.09977		mg/L		100	70 - 130		
Toluene	<0.000367	U	0.100	0.08759		mg/L		88	70 - 130		
Ethylbenzene	<0.000657	U	0.100	0.09541		mg/L		95	70 - 130		
m-Xylene & p-Xylene	0.00179	J	0.200	0.1996		mg/L		99	70 - 130		
o-Xylene	<0.000642	U	0.100	0.09877		mg/L		99	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-25343-1 MSD
Matrix: Water
Analysis Batch: 48575

Client Sample ID: MW-15-W-230301
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000408	U *1	0.100	0.08705		mg/L		87	70 - 130	14	25
Toluene	<0.000367	U	0.100	0.07918		mg/L		79	70 - 130	10	25
Ethylbenzene	<0.000657	U	0.100	0.08624		mg/L		86	70 - 130	10	25

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

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

Lab Sample ID: 880-25343-1 MSD **Client Sample ID: MW-15-W-230301**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 48575

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.00179	J	0.200	0.1786		mg/L		88	70 - 130	11	25
o-Xylene	<0.000642	U	0.100	0.08812		mg/L		88	70 - 130	11	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 880-48623/39 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 48623

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 05:29	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 05:29	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 05:29	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 05:29	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 05:29	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 05:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*03/15/23 05:29*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*		*03/15/23 05:29*	*1*

Lab Sample ID: LCS 880-48623/34 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 48623

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09500		mg/L		95	70 - 130		
Toluene			0.100	0.09421		mg/L		94	70 - 130		
Ethylbenzene			0.100	0.1143		mg/L		114	70 - 130		
m-Xylene & p-Xylene			0.200	0.2590		mg/L		129	70 - 130		
o-Xylene			0.100	0.1308	*+	mg/L		131	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-48623/35 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 48623

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1047		mg/L		105	70 - 130	10	20
Toluene			0.100	0.09768		mg/L		98	70 - 130	4	20
Ethylbenzene			0.100	0.1134		mg/L		113	70 - 130	1	20
m-Xylene & p-Xylene			0.200	0.2494		mg/L		125	70 - 130	4	20
o-Xylene			0.100	0.1250		mg/L		125	70 - 130	5	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-25343-21 MS **Client Sample ID: DUP-2-W-230301**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 48623

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00355	F1	0.100	0.1632	F1	mg/L		160	70 - 130
Toluene	<0.000367	U	0.100	0.1041		mg/L		104	70 - 130
Ethylbenzene	<0.000657	U	0.100	0.1234		mg/L		123	70 - 130
m-Xylene & p-Xylene	<0.000629	U F1	0.200	0.2782	F1	mg/L		139	70 - 130
o-Xylene	0.000901	J F1 *+	0.100	0.1396	F1	mg/L		139	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130
1,4-Difluorobenzene (Surr)	139	S1+	70 - 130

Lab Sample ID: 880-25343-21 MSD **Client Sample ID: DUP-2-W-230301**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 48623

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.00355	F1	0.100	0.1588	F1	mg/L		155	70 - 130	3	25
Toluene	<0.000367	U	0.100	0.1049		mg/L		105	70 - 130	1	25
Ethylbenzene	<0.000657	U	0.100	0.1249		mg/L		125	70 - 130	1	25
m-Xylene & p-Xylene	<0.000629	U F1	0.200	0.2845	F1	mg/L		142	70 - 130	2	25
o-Xylene	0.000901	J F1 *+	0.100	0.1441	F1	mg/L		143	70 - 130	3	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130
1,4-Difluorobenzene (Surr)	135	S1+	70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-92862/1-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 92785 **Prep Batch: 92862**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		03/06/23 16:28	03/06/23 19:28	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		03/06/23 16:28	03/06/23 19:28	1
OII Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		03/06/23 16:28	03/06/23 19:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 135	03/06/23 16:28	03/06/23 19:28	1
o-Terphenyl	167	S1+	70 - 135	03/06/23 16:28	03/06/23 19:28	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 860-92862/2-A **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 92785 **Prep Batch: 92862**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			99.8	121.3		mg/L		122	70 - 135		
Diesel Range Organics (Over C10-C28)			100	118.4		mg/L		118	70 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	109		70 - 135
o-Terphenyl	128		70 - 135

Lab Sample ID: LCSD 860-92862/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 92785 **Prep Batch: 92862**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			99.8	122.7		mg/L		123	70 - 135	1	35
Diesel Range Organics (Over C10-C28)			100	122.4		mg/L		122	70 - 135	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	93		70 - 135
o-Terphenyl	130		70 - 135

Lab Sample ID: MB 860-93478/1-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93570 **Prep Batch: 93478**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		03/09/23 15:58	03/10/23 13:50	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		03/09/23 15:58	03/10/23 13:50	1
OII Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		03/09/23 15:58	03/10/23 13:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 135	03/09/23 15:58	03/10/23 13:50	1
o-Terphenyl	120		70 - 135	03/09/23 15:58	03/10/23 13:50	1

Lab Sample ID: LCS 860-93478/2-A **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93570 **Prep Batch: 93478**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			99.8	124.2		mg/L		124	70 - 135		
Diesel Range Organics (Over C10-C28)			100	115.5		mg/L		116	70 - 135		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 860-93478/2-A **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93570 **Prep Batch: 93478**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	118		70 - 135
o-Terphenyl	128		70 - 135

Lab Sample ID: LCSD 860-93478/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93570 **Prep Batch: 93478**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			99.8	112.9		mg/L		113	70 - 135	10	35
Diesel Range Organics (Over C10-C28)			100	107.7		mg/L		108	70 - 135	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	108		70 - 135
o-Terphenyl	121		70 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-93213/3 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.2017	J	0.500	0.200	mg/L			03/08/23 14:30	1

Lab Sample ID: MB 860-93213/59 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.2107	J	0.500	0.200	mg/L			03/09/23 02:46	1

Lab Sample ID: LCS 860-93213/60 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93213

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.828		mg/L		98	90 - 110		

Lab Sample ID: LCSD 860-93213/61 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93213

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.832		mg/L		98	90 - 110	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25343-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-93213/7
Matrix: Water
Analysis Batch: 93213

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.5600		mg/L		112	50 - 150		

Lab Sample ID: 880-25343-4 MS
Matrix: Water
Analysis Batch: 93213

Client Sample ID: MW-35-W-230301
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	139	B	10.0	145.2	4	mg/L		59	90 - 110		

Lab Sample ID: 880-25343-4 MSD
Matrix: Water
Analysis Batch: 93213

Client Sample ID: MW-35-W-230301
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	139	B	10.0	145.3	4	mg/L		61	90 - 110	0	20

Lab Sample ID: 880-25343-16 MS
Matrix: Water
Analysis Batch: 93213

Client Sample ID: MW-37-W-230301
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	326	B	10.0	332.4	4	mg/L		65	90 - 110		

Lab Sample ID: 880-25343-16 MSD
Matrix: Water
Analysis Batch: 93213

Client Sample ID: MW-37-W-230301
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	326	B	10.0	333.3	4	mg/L		74	90 - 110	0	20

Lab Sample ID: MB 860-93441/3
Matrix: Water
Analysis Batch: 93441

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.2038	J	0.500	0.200	mg/L			03/09/23 14:48	1

Lab Sample ID: LCS 860-93441/4
Matrix: Water
Analysis Batch: 93441

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.681		mg/L		97	90 - 110		

Lab Sample ID: LCSD 860-93441/5
Matrix: Water
Analysis Batch: 93441

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.663		mg/L		97	90 - 110	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25343-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LLCS 860-93441/7
Matrix: Water
Analysis Batch: 93441

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.5502		mg/L		110	50 - 150

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-92939/1-A
Matrix: Water
Analysis Batch: 93179

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000290	U	0.00400	0.000290	mg/L		03/07/23 08:30	03/07/23 22:28	1
Barium	<0.00134	U	0.00400	0.00134	mg/L		03/07/23 08:30	03/07/23 22:28	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 08:30	03/07/23 22:28	1

Lab Sample ID: LCS 860-92939/2-A
Matrix: Water
Analysis Batch: 93179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.1038		mg/L		104	80 - 120
Barium	0.100	0.1051		mg/L		105	80 - 120
Chromium	0.100	0.1052		mg/L		105	80 - 120

Lab Sample ID: LCSD 860-92939/3-A
Matrix: Water
Analysis Batch: 93179

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92939

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.100	0.1034		mg/L		103	80 - 120	0	20
Barium	0.100	0.1040		mg/L		104	80 - 120	1	20
Chromium	0.100	0.1035		mg/L		104	80 - 120	2	20

Lab Sample ID: MB 860-92960/1-A
Matrix: Water
Analysis Batch: 93179

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92960

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000290	U	0.00400	0.000290	mg/L		03/07/23 10:00	03/07/23 20:37	1
Barium	<0.00134	U	0.00400	0.00134	mg/L		03/07/23 10:00	03/07/23 20:37	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/07/23 10:00	03/07/23 20:37	1

Lab Sample ID: LCS 860-92960/2-A
Matrix: Water
Analysis Batch: 93179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.1048		mg/L		105	80 - 120
Barium	0.100	0.1053		mg/L		105	80 - 120
Chromium	0.100	0.1047		mg/L		105	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-92960/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 93179 — **Prep Batch: 92960**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic			0.100	0.1043		mg/L		104	80 - 120	0	20
Barium			0.100	0.1038		mg/L		104	80 - 120	1	20
Chromium			0.100	0.1047		mg/L		105	80 - 120	0	20

Lab Sample ID: 880-25343-1 MS — **Client Sample ID: MW-15-W-230301**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 93179 — **Prep Batch: 92939**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic	0.0121		0.100	0.1124		mg/L		100	75 - 125		
Barium	0.0463		0.100	0.1573		mg/L		111	75 - 125		
Chromium	<0.000560	U	0.100	0.1052		mg/L		105	75 - 125		

Lab Sample ID: 880-25343-1 MSD — **Client Sample ID: MW-15-W-230301**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 93179 — **Prep Batch: 92939**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0121		0.100	0.1150		mg/L		103	75 - 125	2	20
Barium	0.0463		0.100	0.1576		mg/L		111	75 - 125	0	20
Chromium	<0.000560	U	0.100	0.1044		mg/L		104	75 - 125	1	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 880-47952/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 47952

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 07:30	1

Lab Sample ID: LCS 880-47952/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 47952

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)			0.0400	0.04389		mg/L		110	85 - 115		

Lab Sample ID: LCSD 880-47952/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 47952

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)			0.0400	0.04389		mg/L		110	85 - 115	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25343-1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: MB 880-47959/3
Matrix: Water
Analysis Batch: 47959

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 08:00	1

Lab Sample ID: LCS 880-47959/4
Matrix: Water
Analysis Batch: 47959

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	0.0400	0.03867		mg/L		97	85 - 115

Lab Sample ID: LCSD 880-47959/5
Matrix: Water
Analysis Batch: 47959

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	0.0400	0.03867		mg/L		97	85 - 115	0	20

Lab Sample ID: MB 880-47961/3
Matrix: Water
Analysis Batch: 47961

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.00270	U	0.0100	0.00270	mg/L			03/02/23 09:00	1

Lab Sample ID: LCS 880-47961/4
Matrix: Water
Analysis Batch: 47961

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	0.0400	0.04484		mg/L		112	85 - 115

Lab Sample ID: LCSD 880-47961/5
Matrix: Water
Analysis Batch: 47961

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	0.0400	0.04484		mg/L		112	85 - 115	0	20

Lab Sample ID: 880-25343-9 MS
Matrix: Water
Analysis Batch: 47959

Client Sample ID: WW-7-W-230301
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	<0.00270	U	0.200	0.1759		mg/L		88	85 - 115

Lab Sample ID: 880-25343-9 MSD
Matrix: Water
Analysis Batch: 47959

Client Sample ID: WW-7-W-230301
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	<0.00270	U	0.200	0.1759		mg/L		88	85 - 115	0	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: 880-25343-19 MS **Client Sample ID: MWD-5-W-230301**
Matrix: Water **Prep Type: Dissolved**
Analysis Batch: 47961

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	<0.00270	U	0.200	0.1735		mg/L		87	85 - 115

Lab Sample ID: 880-25343-19 MSD **Client Sample ID: MWD-5-W-230301**
Matrix: Water **Prep Type: Dissolved**
Analysis Batch: 47961

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	<0.00270	U	0.200	0.1735		mg/L		87	85 - 115	0	20

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

Lab Sample ID: MB 860-92977/1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 92977

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00	mg/L			03/07/23 09:00	1

Lab Sample ID: LCS 860-92977/2 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 92977

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	931.0		mg/L		93	80 - 120

Lab Sample ID: LCSD 860-92977/3 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 92977

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	928.0		mg/L		93	80 - 120	0	10

Lab Sample ID: LLCS 860-92977/4 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 92977

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	<5.00	U	mg/L		86	50 - 150

Lab Sample ID: 880-25343-1 DU **Client Sample ID: MW-15-W-230301**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 92977

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	4280		4216		mg/L		1	10

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

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

Lab Sample ID: 880-25343-2 DU **Client Sample ID: MW-16-W-230301**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 92977

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	4840		4520		mg/L		7	10

Lab Sample ID: MB 860-92979/1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 92979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00	mg/L			03/07/23 09:00	1

Lab Sample ID: LCS 860-92979/2 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 92979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	902.0		mg/L		90	80 - 120

Lab Sample ID: LCSD 860-92979/3 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 92979

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	893.0		mg/L		89	80 - 120	1	10

Lab Sample ID: LLCS 860-92979/4 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 92979

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	<5.00	U	mg/L		97	50 - 150

Lab Sample ID: 880-25343-21 DU **Client Sample ID: DUP-2-W-230301**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 92979

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1530		1560		mg/L		2	10

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

GC VOA

Prep Batch: 48335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48335/5-A	Method Blank	Total/NA	Water	5035	

Prep Batch: 48336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48336/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 48575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-1	MW-15-W-230301	Total/NA	Water	8021B	
880-25343-2	MW-16-W-230301	Total/NA	Water	8021B	
880-25343-3	MW-36-W-230301	Total/NA	Water	8021B	
880-25343-4	MW-35-W-230301	Total/NA	Water	8021B	
880-25343-5	MW-34-W-230301	Total/NA	Water	8021B	
880-25343-6	MWD-6-W-230301	Total/NA	Water	8021B	
880-25343-7	MW-30-W-230301	Total/NA	Water	8021B	
880-25343-8	MW-9-W-230301	Total/NA	Water	8021B	
880-25343-9	WW-7-W-230301	Total/NA	Water	8021B	
880-25343-10	WW-2-W-230301	Total/NA	Water	8021B	
880-25343-20	DUP-1-W-230301	Total/NA	Water	8021B	
MB 880-48335/5-A	Method Blank	Total/NA	Water	8021B	48335
MB 880-48575/39	Method Blank	Total/NA	Water	8021B	
LCS 880-48575/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-48575/35	Lab Control Sample Dup	Total/NA	Water	8021B	
880-25343-1 MS	MW-15-W-230301	Total/NA	Water	8021B	
880-25343-1 MSD	MW-15-W-230301	Total/NA	Water	8021B	

Analysis Batch: 48623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-11	MW-8-W-230301	Total/NA	Water	8021B	
880-25343-12	MW-29-W-230301	Total/NA	Water	8021B	
880-25343-13	MW-13-W-230301	Total/NA	Water	8021B	
880-25343-14	MW-31-W-230301	Total/NA	Water	8021B	
880-25343-15	MW-14-W-230301	Total/NA	Water	8021B	
880-25343-16	MW-37-W-230301	Total/NA	Water	8021B	
880-25343-17	MW-38-W-230301	Total/NA	Water	8021B	
880-25343-18	MW-32-W-230301	Total/NA	Water	8021B	
880-25343-19	MWD-5-W-230301	Total/NA	Water	8021B	
880-25343-21	DUP-2-W-230301	Total/NA	Water	8021B	
MB 880-48336/5-A	Method Blank	Total/NA	Water	8021B	48336
MB 880-48623/39	Method Blank	Total/NA	Water	8021B	
LCS 880-48623/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-48623/35	Lab Control Sample Dup	Total/NA	Water	8021B	
880-25343-21 MS	DUP-2-W-230301	Total/NA	Water	8021B	
880-25343-21 MSD	DUP-2-W-230301	Total/NA	Water	8021B	

Analysis Batch: 48667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-1	MW-15-W-230301	Total/NA	Water	Total BTEX	
880-25343-2	MW-16-W-230301	Total/NA	Water	Total BTEX	
880-25343-3	MW-36-W-230301	Total/NA	Water	Total BTEX	
880-25343-4	MW-35-W-230301	Total/NA	Water	Total BTEX	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

GC VOA (Continued)

Analysis Batch: 48667 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-5	MW-34-W-230301	Total/NA	Water	Total BTEX	
880-25343-6	MWD-6-W-230301	Total/NA	Water	Total BTEX	
880-25343-7	MW-30-W-230301	Total/NA	Water	Total BTEX	
880-25343-8	MW-9-W-230301	Total/NA	Water	Total BTEX	
880-25343-9	WW-7-W-230301	Total/NA	Water	Total BTEX	
880-25343-10	WW-2-W-230301	Total/NA	Water	Total BTEX	
880-25343-11	MW-8-W-230301	Total/NA	Water	Total BTEX	
880-25343-12	MW-29-W-230301	Total/NA	Water	Total BTEX	
880-25343-13	MW-13-W-230301	Total/NA	Water	Total BTEX	
880-25343-14	MW-31-W-230301	Total/NA	Water	Total BTEX	
880-25343-15	MW-14-W-230301	Total/NA	Water	Total BTEX	
880-25343-16	MW-37-W-230301	Total/NA	Water	Total BTEX	
880-25343-17	MW-38-W-230301	Total/NA	Water	Total BTEX	
880-25343-18	MW-32-W-230301	Total/NA	Water	Total BTEX	
880-25343-19	MWD-5-W-230301	Total/NA	Water	Total BTEX	
880-25343-20	DUP-1-W-230301	Total/NA	Water	Total BTEX	
880-25343-21	DUP-2-W-230301	Total/NA	Water	Total BTEX	

GC Semi VOA

Analysis Batch: 80443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-1	MW-15-W-230301	Total/NA	Water	8015 NM	
880-25343-2	MW-16-W-230301	Total/NA	Water	8015 NM	
880-25343-3	MW-36-W-230301	Total/NA	Water	8015 NM	
880-25343-4	MW-35-W-230301	Total/NA	Water	8015 NM	
880-25343-5	MW-34-W-230301	Total/NA	Water	8015 NM	
880-25343-6	MWD-6-W-230301	Total/NA	Water	8015 NM	
880-25343-7	MW-30-W-230301	Total/NA	Water	8015 NM	
880-25343-8	MW-9-W-230301	Total/NA	Water	8015 NM	
880-25343-9	WW-7-W-230301	Total/NA	Water	8015 NM	
880-25343-10	WW-2-W-230301	Total/NA	Water	8015 NM	
880-25343-11	MW-8-W-230301	Total/NA	Water	8015 NM	
880-25343-12	MW-29-W-230301	Total/NA	Water	8015 NM	
880-25343-13	MW-13-W-230301	Total/NA	Water	8015 NM	
880-25343-14	MW-31-W-230301	Total/NA	Water	8015 NM	
880-25343-15	MW-14-W-230301	Total/NA	Water	8015 NM	
880-25343-16	MW-37-W-230301	Total/NA	Water	8015 NM	
880-25343-17	MW-38-W-230301	Total/NA	Water	8015 NM	
880-25343-18	MW-32-W-230301	Total/NA	Water	8015 NM	
880-25343-19	MWD-5-W-230301	Total/NA	Water	8015 NM	
880-25343-20	DUP-1-W-230301	Total/NA	Water	8015 NM	
880-25343-21	DUP-2-W-230301	Total/NA	Water	8015 NM	

Analysis Batch: 92785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-92862/1-A	Method Blank	Total/NA	Water	8015B NM	92862
LCS 860-92862/2-A	Lab Control Sample	Total/NA	Water	8015B NM	92862
LCSD 860-92862/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	92862

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

GC Semi VOA

Prep Batch: 92862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-20	DUP-1-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-21	DUP-2-W-230301	Total/NA	Water	8015NM Aq Prep	
MB 860-92862/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-92862/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-92862/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 93075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-20	DUP-1-W-230301	Total/NA	Water	8015B NM	92862
880-25343-21	DUP-2-W-230301	Total/NA	Water	8015B NM	92862

Prep Batch: 93478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-1	MW-15-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-2	MW-16-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-3	MW-36-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-4	MW-35-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-5	MW-34-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-6	MWD-6-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-7	MW-30-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-8	MW-9-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-9	WW-7-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-10	WW-2-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-11	MW-8-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-12	MW-29-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-13	MW-13-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-14	MW-31-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-15	MW-14-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-16	MW-37-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-17	MW-38-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-18	MW-32-W-230301	Total/NA	Water	8015NM Aq Prep	
880-25343-19	MWD-5-W-230301	Total/NA	Water	8015NM Aq Prep	
MB 860-93478/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-93478/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-93478/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 93570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-1	MW-15-W-230301	Total/NA	Water	8015B NM	93478
880-25343-2	MW-16-W-230301	Total/NA	Water	8015B NM	93478
880-25343-3	MW-36-W-230301	Total/NA	Water	8015B NM	93478
880-25343-4	MW-35-W-230301	Total/NA	Water	8015B NM	93478
880-25343-5	MW-34-W-230301	Total/NA	Water	8015B NM	93478
880-25343-6	MWD-6-W-230301	Total/NA	Water	8015B NM	93478
880-25343-7	MW-30-W-230301	Total/NA	Water	8015B NM	93478
880-25343-8	MW-9-W-230301	Total/NA	Water	8015B NM	93478
880-25343-9	WW-7-W-230301	Total/NA	Water	8015B NM	93478
880-25343-10	WW-2-W-230301	Total/NA	Water	8015B NM	93478
880-25343-11	MW-8-W-230301	Total/NA	Water	8015B NM	93478
880-25343-12	MW-29-W-230301	Total/NA	Water	8015B NM	93478
880-25343-13	MW-13-W-230301	Total/NA	Water	8015B NM	93478

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

GC Semi VOA (Continued)

Analysis Batch: 93570 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-14	MW-31-W-230301	Total/NA	Water	8015B NM	93478
880-25343-15	MW-14-W-230301	Total/NA	Water	8015B NM	93478
880-25343-16	MW-37-W-230301	Total/NA	Water	8015B NM	93478
880-25343-17	MW-38-W-230301	Total/NA	Water	8015B NM	93478
880-25343-18	MW-32-W-230301	Total/NA	Water	8015B NM	93478
880-25343-19	MWD-5-W-230301	Total/NA	Water	8015B NM	93478
MB 860-93478/1-A	Method Blank	Total/NA	Water	8015B NM	93478
LCS 860-93478/2-A	Lab Control Sample	Total/NA	Water	8015B NM	93478
LCSD 860-93478/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	93478

HPLC/IC

Analysis Batch: 93213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-1	MW-15-W-230301	Total/NA	Water	300.0	
880-25343-2	MW-16-W-230301	Total/NA	Water	300.0	
880-25343-3	MW-36-W-230301	Total/NA	Water	300.0	
880-25343-4	MW-35-W-230301	Total/NA	Water	300.0	
880-25343-5	MW-34-W-230301	Total/NA	Water	300.0	
880-25343-6	MWD-6-W-230301	Total/NA	Water	300.0	
880-25343-7	MW-30-W-230301	Total/NA	Water	300.0	
880-25343-8	MW-9-W-230301	Total/NA	Water	300.0	
880-25343-9	WW-7-W-230301	Total/NA	Water	300.0	
880-25343-10	WW-2-W-230301	Total/NA	Water	300.0	
880-25343-11	MW-8-W-230301	Total/NA	Water	300.0	
880-25343-12	MW-29-W-230301	Total/NA	Water	300.0	
880-25343-13	MW-13-W-230301	Total/NA	Water	300.0	
880-25343-14	MW-31-W-230301	Total/NA	Water	300.0	
880-25343-15	MW-14-W-230301	Total/NA	Water	300.0	
880-25343-16	MW-37-W-230301	Total/NA	Water	300.0	
880-25343-17	MW-38-W-230301	Total/NA	Water	300.0	
880-25343-18	MW-32-W-230301	Total/NA	Water	300.0	
880-25343-19	MWD-5-W-230301	Total/NA	Water	300.0	
880-25343-20	DUP-1-W-230301	Total/NA	Water	300.0	
MB 860-93213/3	Method Blank	Total/NA	Water	300.0	
MB 860-93213/59	Method Blank	Total/NA	Water	300.0	
LCS 860-93213/60	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-93213/61	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-93213/7	Lab Control Sample	Total/NA	Water	300.0	
880-25343-4 MS	MW-35-W-230301	Total/NA	Water	300.0	
880-25343-4 MSD	MW-35-W-230301	Total/NA	Water	300.0	
880-25343-16 MS	MW-37-W-230301	Total/NA	Water	300.0	
880-25343-16 MSD	MW-37-W-230301	Total/NA	Water	300.0	

Analysis Batch: 93441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-21	DUP-2-W-230301	Total/NA	Water	300.0	
MB 860-93441/3	Method Blank	Total/NA	Water	300.0	
LCS 860-93441/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-93441/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-93441/7	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Metals

Prep Batch: 92939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-1	MW-15-W-230301	Dissolved	Water	3010A	
880-25343-2	MW-16-W-230301	Dissolved	Water	3010A	
880-25343-3	MW-36-W-230301	Dissolved	Water	3010A	
880-25343-4	MW-35-W-230301	Dissolved	Water	3010A	
880-25343-5	MW-34-W-230301	Dissolved	Water	3010A	
880-25343-6	MWD-6-W-230301	Dissolved	Water	3010A	
880-25343-7	MW-30-W-230301	Dissolved	Water	3010A	
880-25343-8	MW-9-W-230301	Dissolved	Water	3010A	
880-25343-9	WW-7-W-230301	Dissolved	Water	3010A	
880-25343-10	WW-2-W-230301	Dissolved	Water	3010A	
880-25343-11	MW-8-W-230301	Dissolved	Water	3010A	
880-25343-12	MW-29-W-230301	Dissolved	Water	3010A	
880-25343-13	MW-13-W-230301	Dissolved	Water	3010A	
880-25343-14	MW-31-W-230301	Dissolved	Water	3010A	
880-25343-15	MW-14-W-230301	Dissolved	Water	3010A	
880-25343-16	MW-37-W-230301	Dissolved	Water	3010A	
880-25343-17	MW-38-W-230301	Dissolved	Water	3010A	
880-25343-18	MW-32-W-230301	Dissolved	Water	3010A	
880-25343-19	MWD-5-W-230301	Dissolved	Water	3010A	
880-25343-20	DUP-1-W-230301	Dissolved	Water	3010A	
MB 860-92939/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-92939/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-92939/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
880-25343-1 MS	MW-15-W-230301	Dissolved	Water	3010A	
880-25343-1 MSD	MW-15-W-230301	Dissolved	Water	3010A	

Prep Batch: 92960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-21	DUP-2-W-230301	Dissolved	Water	3010A	
MB 860-92960/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-92960/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-92960/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 93179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-1	MW-15-W-230301	Dissolved	Water	6020A	92939
880-25343-2	MW-16-W-230301	Dissolved	Water	6020A	92939
880-25343-2	MW-16-W-230301	Dissolved	Water	6020A	92939
880-25343-3	MW-36-W-230301	Dissolved	Water	6020A	92939
880-25343-3	MW-36-W-230301	Dissolved	Water	6020A	92939
880-25343-4	MW-35-W-230301	Dissolved	Water	6020A	92939
880-25343-5	MW-34-W-230301	Dissolved	Water	6020A	92939
880-25343-6	MWD-6-W-230301	Dissolved	Water	6020A	92939
880-25343-7	MW-30-W-230301	Dissolved	Water	6020A	92939
880-25343-8	MW-9-W-230301	Dissolved	Water	6020A	92939
880-25343-9	WW-7-W-230301	Dissolved	Water	6020A	92939
880-25343-10	WW-2-W-230301	Dissolved	Water	6020A	92939
880-25343-11	MW-8-W-230301	Dissolved	Water	6020A	92939
880-25343-12	MW-29-W-230301	Dissolved	Water	6020A	92939
880-25343-13	MW-13-W-230301	Dissolved	Water	6020A	92939
880-25343-14	MW-31-W-230301	Dissolved	Water	6020A	92939

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Metals (Continued)

Analysis Batch: 93179 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-15	MW-14-W-230301	Dissolved	Water	6020A	92939
880-25343-16	MW-37-W-230301	Dissolved	Water	6020A	92939
880-25343-17	MW-38-W-230301	Dissolved	Water	6020A	92939
880-25343-18	MW-32-W-230301	Dissolved	Water	6020A	92939
880-25343-19	MWD-5-W-230301	Dissolved	Water	6020A	92939
880-25343-20	DUP-1-W-230301	Dissolved	Water	6020A	92939
880-25343-21	DUP-2-W-230301	Dissolved	Water	6020A	92960
MB 860-92939/1-A	Method Blank	Total/NA	Water	6020A	92939
MB 860-92960/1-A	Method Blank	Total/NA	Water	6020A	92960
LCS 860-92939/2-A	Lab Control Sample	Total/NA	Water	6020A	92939
LCS 860-92960/2-A	Lab Control Sample	Total/NA	Water	6020A	92960
LCSD 860-92939/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	92939
LCSD 860-92960/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	92960
880-25343-1 MS	MW-15-W-230301	Dissolved	Water	6020A	92939
880-25343-1 MSD	MW-15-W-230301	Dissolved	Water	6020A	92939

Analysis Batch: 93217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-5	MW-34-W-230301	Dissolved	Water	6020A	92939
880-25343-6	MWD-6-W-230301	Dissolved	Water	6020A	92939
880-25343-8	MW-9-W-230301	Dissolved	Water	6020A	92939
880-25343-9	WW-7-W-230301	Dissolved	Water	6020A	92939
880-25343-10	WW-2-W-230301	Dissolved	Water	6020A	92939
880-25343-12	MW-29-W-230301	Dissolved	Water	6020A	92939
880-25343-16	MW-37-W-230301	Dissolved	Water	6020A	92939
880-25343-18	MW-32-W-230301	Dissolved	Water	6020A	92939
880-25343-19	MWD-5-W-230301	Dissolved	Water	6020A	92939
880-25343-21	DUP-2-W-230301	Dissolved	Water	6020A	92960

General Chemistry

Analysis Batch: 47952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-1	MW-15-W-230301	Dissolved	Water	7196A	
880-25343-2	MW-16-W-230301	Dissolved	Water	7196A	
880-25343-3	MW-36-W-230301	Dissolved	Water	7196A	
880-25343-4	MW-35-W-230301	Dissolved	Water	7196A	
880-25343-5	MW-34-W-230301	Dissolved	Water	7196A	
880-25343-6	MWD-6-W-230301	Dissolved	Water	7196A	
880-25343-7	MW-30-W-230301	Dissolved	Water	7196A	
880-25343-8	MW-9-W-230301	Dissolved	Water	7196A	
MB 880-47952/3	Method Blank	Total/NA	Water	7196A	
LCS 880-47952/4	Lab Control Sample	Total/NA	Water	7196A	
LCSD 880-47952/5	Lab Control Sample Dup	Total/NA	Water	7196A	

Analysis Batch: 47959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-9	WW-7-W-230301	Dissolved	Water	7196A	
880-25343-10	WW-2-W-230301	Dissolved	Water	7196A	
880-25343-11	MW-8-W-230301	Dissolved	Water	7196A	
880-25343-12	MW-29-W-230301	Dissolved	Water	7196A	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

General Chemistry (Continued)

Analysis Batch: 47959 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-13	MW-13-W-230301	Dissolved	Water	7196A	
880-25343-14	MW-31-W-230301	Dissolved	Water	7196A	
880-25343-15	MW-14-W-230301	Dissolved	Water	7196A	
880-25343-16	MW-37-W-230301	Dissolved	Water	7196A	
880-25343-17	MW-38-W-230301	Dissolved	Water	7196A	
880-25343-18	MW-32-W-230301	Dissolved	Water	7196A	
MB 880-47959/3	Method Blank	Total/NA	Water	7196A	
LCS 880-47959/4	Lab Control Sample	Total/NA	Water	7196A	
LCSD 880-47959/5	Lab Control Sample Dup	Total/NA	Water	7196A	
880-25343-9 MS	WW-7-W-230301	Dissolved	Water	7196A	
880-25343-9 MSD	WW-7-W-230301	Dissolved	Water	7196A	

Analysis Batch: 47961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-19	MWD-5-W-230301	Dissolved	Water	7196A	
880-25343-20	DUP-1-W-230301	Dissolved	Water	7196A	
880-25343-21	DUP-2-W-230301	Dissolved	Water	7196A	
MB 880-47961/3	Method Blank	Total/NA	Water	7196A	
LCS 880-47961/4	Lab Control Sample	Total/NA	Water	7196A	
LCSD 880-47961/5	Lab Control Sample Dup	Total/NA	Water	7196A	
880-25343-19 MS	MWD-5-W-230301	Dissolved	Water	7196A	
880-25343-19 MSD	MWD-5-W-230301	Dissolved	Water	7196A	

Analysis Batch: 92977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-1	MW-15-W-230301	Total/NA	Water	SM 2540C	
880-25343-2	MW-16-W-230301	Total/NA	Water	SM 2540C	
880-25343-3	MW-36-W-230301	Total/NA	Water	SM 2540C	
880-25343-4	MW-35-W-230301	Total/NA	Water	SM 2540C	
880-25343-5	MW-34-W-230301	Total/NA	Water	SM 2540C	
880-25343-6	MWD-6-W-230301	Total/NA	Water	SM 2540C	
880-25343-7	MW-30-W-230301	Total/NA	Water	SM 2540C	
880-25343-8	MW-9-W-230301	Total/NA	Water	SM 2540C	
880-25343-9	WW-7-W-230301	Total/NA	Water	SM 2540C	
880-25343-10	WW-2-W-230301	Total/NA	Water	SM 2540C	
880-25343-11	MW-8-W-230301	Total/NA	Water	SM 2540C	
880-25343-12	MW-29-W-230301	Total/NA	Water	SM 2540C	
880-25343-13	MW-13-W-230301	Total/NA	Water	SM 2540C	
880-25343-14	MW-31-W-230301	Total/NA	Water	SM 2540C	
880-25343-15	MW-14-W-230301	Total/NA	Water	SM 2540C	
880-25343-16	MW-37-W-230301	Total/NA	Water	SM 2540C	
880-25343-17	MW-38-W-230301	Total/NA	Water	SM 2540C	
880-25343-18	MW-32-W-230301	Total/NA	Water	SM 2540C	
880-25343-19	MWD-5-W-230301	Total/NA	Water	SM 2540C	
880-25343-20	DUP-1-W-230301	Total/NA	Water	SM 2540C	
MB 860-92977/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-92977/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-92977/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-92977/4	Lab Control Sample	Total/NA	Water	SM 2540C	
880-25343-1 DU	MW-15-W-230301	Total/NA	Water	SM 2540C	
880-25343-2 DU	MW-16-W-230301	Total/NA	Water	SM 2540C	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

General Chemistry

Analysis Batch: 92979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-21	DUP-2-W-230301	Total/NA	Water	SM 2540C	
MB 860-92979/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-92979/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-92979/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-92979/4	Lab Control Sample	Total/NA	Water	SM 2540C	
880-25343-21 DU	DUP-2-W-230301	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-15-W-230301
Lab Sample ID: 880-25343-1
Date Collected: 03/01/23 07:48
Matrix: Water
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 05:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 12:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/07/23 16:06	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.5 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 18:48	SAR	EET HOU
Total/NA	Analysis	300.0		10			93213	03/09/23 06:09	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 22:35	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47952	03/02/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Client Sample ID: MW-16-W-230301
Lab Sample ID: 880-25343-2
Date Collected: 03/01/23 08:19
Matrix: Water
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 05:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 12:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/07/23 16:06	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.4 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 19:08	SAR	EET HOU
Total/NA	Analysis	300.0		10			93213	03/09/23 06:33	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 22:56	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		20			93179	03/07/23 23:50	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47952	03/02/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Client Sample ID: MW-36-W-230301
Lab Sample ID: 880-25343-3
Date Collected: 03/01/23 08:48
Matrix: Water
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 06:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 12:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/07/23 16:06	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.2 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 19:28	SAR	EET HOU
Total/NA	Analysis	300.0		1			93213	03/09/23 06:44	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 22:59	DP	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-36-W-230301 Lab Sample ID: 880-25343-3

Date Collected: 03/01/23 08:48 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		20			93179	03/07/23 23:52	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47952	03/02/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Client Sample ID: MW-35-W-230301 Lab Sample ID: 880-25343-4

Date Collected: 03/01/23 09:08 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 06:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 12:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/07/23 16:06	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			33.2 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 19:48	SAR	EET HOU
Total/NA	Analysis	300.0		1			93213	03/09/23 03:22	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 23:01	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47952	03/02/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Client Sample ID: MW-34-W-230301 Lab Sample ID: 880-25343-5

Date Collected: 03/01/23 09:22 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 07:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 12:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/07/23 16:06	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			30.1 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 20:07	SAR	EET HOU
Total/NA	Analysis	300.0		1			93213	03/09/23 07:32	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 23:03	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		20			93217	03/08/23 13:03	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47952	03/02/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-6-W-230301 Lab Sample ID: 880-25343-6

Date Collected: 03/01/23 09:50 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 07:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 12:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/07/23 16:06	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.1 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 20:47	SAR	EET HOU
Total/NA	Analysis	300.0		1			93213	03/09/23 03:58	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 23:06	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		10			93217	03/08/23 13:08	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47952	03/02/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Client Sample ID: MW-30-W-230301 Lab Sample ID: 880-25343-7

Date Collected: 03/01/23 10:05 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 08:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 12:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/07/23 16:06	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			34.5 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 21:06	SAR	EET HOU
Total/NA	Analysis	300.0		1			93213	03/09/23 04:10	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 23:08	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47952	03/02/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Client Sample ID: MW-9-W-230301 Lab Sample ID: 880-25343-8

Date Collected: 03/01/23 10:22 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 08:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 12:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/07/23 16:06	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 21:26	SAR	EET HOU
Total/NA	Analysis	300.0		1			93213	03/09/23 04:22	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 23:10	DP	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-9-W-230301 Lab Sample ID: 880-25343-8

Date Collected: 03/01/23 10:22 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		100			93217	03/08/23 13:10	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47952	03/02/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Client Sample ID: WW-7-W-230301 Lab Sample ID: 880-25343-9

Date Collected: 03/01/23 10:35 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 09:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 12:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/07/23 16:06	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			33.1 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 21:46	SAR	EET HOU
Total/NA	Analysis	300.0		1			93213	03/09/23 04:34	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 23:13	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		10			93217	03/08/23 13:22	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47959	03/02/23 08:00	CH	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Client Sample ID: WW-2-W-230301 Lab Sample ID: 880-25343-10

Date Collected: 03/01/23 10:50 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 09:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 12:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/07/23 16:06	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			33.8 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 22:05	SAR	EET HOU
Total/NA	Analysis	300.0		10			93213	03/09/23 08:08	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 23:15	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		20			93217	03/08/23 13:24	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47959	03/02/23 08:00	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-8-W-230301 Lab Sample ID: 880-25343-11

Date Collected: 03/01/23 12:28 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 12:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 16:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/07/23 16:06	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			34.4 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 22:25	SAR	EET HOU
Total/NA	Analysis	300.0		10			93213	03/09/23 08:32	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 23:22	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47959	03/02/23 08:00	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Client Sample ID: MW-29-W-230301 Lab Sample ID: 880-25343-12

Date Collected: 03/01/23 12:44 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 13:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 16:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:12	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			30.5 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 22:44	SAR	EET HOU
Total/NA	Analysis	300.0		1			93213	03/09/23 08:44	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 23:24	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		100			93217	03/08/23 13:29	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47959	03/02/23 08:00	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Client Sample ID: MW-13-W-230301 Lab Sample ID: 880-25343-13

Date Collected: 03/01/23 13:03 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 13:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 16:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:12	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			33.1 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 23:04	SAR	EET HOU
Total/NA	Analysis	300.0		1			93213	03/09/23 05:09	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 23:26	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47959	03/02/23 08:00	CH	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-13-W-230301 Lab Sample ID: 880-25343-13

Date Collected: 03/01/23 13:03 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Client Sample ID: MW-31-W-230301 Lab Sample ID: 880-25343-14

Date Collected: 03/01/23 13:19 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 13:53	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 16:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:12	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			34.6 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 23:23	SAR	EET HOU
Total/NA	Analysis	300.0		1			93213	03/09/23 10:43	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 23:29	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47959	03/02/23 08:00	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Client Sample ID: MW-14-W-230301 Lab Sample ID: 880-25343-15

Date Collected: 03/01/23 13:38 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 14:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 16:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:12	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			35.1 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 23:43	SAR	EET HOU
Total/NA	Analysis	300.0		1			93213	03/09/23 11:30	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 23:31	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47959	03/02/23 08:00	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Client Sample ID: MW-37-W-230301 Lab Sample ID: 880-25343-16

Date Collected: 03/01/23 14:03 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 14:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 16:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:12	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			31 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/11/23 00:22	SAR	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-37-W-230301 Lab Sample ID: 880-25343-16

Date Collected: 03/01/23 14:03 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			93213	03/09/23 05:21	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 23:33	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		10			93217	03/08/23 13:34	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47959	03/02/23 08:00	CH	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Client Sample ID: MW-38-W-230301 Lab Sample ID: 880-25343-17

Date Collected: 03/01/23 14:23 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 14:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 16:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:12	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			30.4 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/11/23 00:42	SAR	EET HOU
Total/NA	Analysis	300.0		10			93213	03/09/23 12:06	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 23:36	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47959	03/02/23 08:00	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Client Sample ID: MW-32-W-230301 Lab Sample ID: 880-25343-18

Date Collected: 03/01/23 14:45 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 15:15	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 16:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:12	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.5 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/11/23 01:01	SAR	EET HOU
Total/NA	Analysis	300.0		10			93213	03/09/23 12:30	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 23:38	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		20			93217	03/08/23 13:36	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47959	03/02/23 08:00	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-5-W-230301 Lab Sample ID: 880-25343-19

Date Collected: 03/01/23 14:58 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	5 mL	5 mL	48623	03/15/23 15:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 16:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:12	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			30.6 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/11/23 01:21	SAR	EET HOU
Total/NA	Analysis	300.0		10			93213	03/09/23 12:54	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 23:40	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		100			93217	03/08/23 13:39	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47961	03/02/23 09:00	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Client Sample ID: DUP-1-W-230301 Lab Sample ID: 880-25343-20

Date Collected: 03/01/23 00:00 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 11:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 16:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:12	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.5 mL	3 mL	92862	03/07/23 15:08	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93075	03/07/23 20:39	T1S	EET HOU
Total/NA	Analysis	300.0		10			93213	03/09/23 13:17	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92939	03/07/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 23:43	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47961	03/02/23 09:00	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	92977	03/07/23 09:00	HN	EET HOU

Client Sample ID: DUP-2-W-230301 Lab Sample ID: 880-25343-21

Date Collected: 03/01/23 00:00 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 05:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48667	03/15/23 12:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:12	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.9 mL	3 mL	92862	03/07/23 15:08	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93075	03/07/23 20:58	T1S	EET HOU
Total/NA	Analysis	300.0		1			93441	03/09/23 20:08	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92960	03/07/23 10:00	MD	EET HOU
Dissolved	Analysis	6020A		1			93179	03/07/23 21:05	DP	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: DUP-2-W-230301 Lab Sample ID: 880-25343-21

Date Collected: 03/01/23 00:00 **Matrix: Water**
Date Received: 03/01/23 18:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3010A			50 mL	50 mL	92960	03/07/23 10:00	MD	EET HOU
Dissolved	Analysis	6020A		50			93217	03/08/23 12:58	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	47961	03/02/23 09:00	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	92979	03/07/23 09:00	HN	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	03-13-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	OII Range Organics (Over C28-C36)

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25343-1
Project/Site: Eunice Project - South Eunice

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
6020A	Metals (ICP/MS)	SW846	EET HOU
7196A	Chromium, Hexavalent	SW846	EET MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU
5030B	Purge and Trap	SW846	EET MID
8015NM Aq Prep	Microextraction	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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 HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25343-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25343-1	MW-15-W-230301	Water	03/01/23 07:48	03/01/23 18:08
880-25343-2	MW-16-W-230301	Water	03/01/23 08:19	03/01/23 18:08
880-25343-3	MW-36-W-230301	Water	03/01/23 08:48	03/01/23 18:08
880-25343-4	MW-35-W-230301	Water	03/01/23 09:08	03/01/23 18:08
880-25343-5	MW-34-W-230301	Water	03/01/23 09:22	03/01/23 18:08
880-25343-6	MWD-6-W-230301	Water	03/01/23 09:50	03/01/23 18:08
880-25343-7	MW-30-W-230301	Water	03/01/23 10:05	03/01/23 18:08
880-25343-8	MW-9-W-230301	Water	03/01/23 10:22	03/01/23 18:08
880-25343-9	WW-7-W-230301	Water	03/01/23 10:35	03/01/23 18:08
880-25343-10	WW-2-W-230301	Water	03/01/23 10:50	03/01/23 18:08
880-25343-11	MW-8-W-230301	Water	03/01/23 12:28	03/01/23 18:08
880-25343-12	MW-29-W-230301	Water	03/01/23 12:44	03/01/23 18:08
880-25343-13	MW-13-W-230301	Water	03/01/23 13:03	03/01/23 18:08
880-25343-14	MW-31-W-230301	Water	03/01/23 13:19	03/01/23 18:08
880-25343-15	MW-14-W-230301	Water	03/01/23 13:38	03/01/23 18:08
880-25343-16	MW-37-W-230301	Water	03/01/23 14:03	03/01/23 18:08
880-25343-17	MW-38-W-230301	Water	03/01/23 14:23	03/01/23 18:08
880-25343-18	MW-32-W-230301	Water	03/01/23 14:45	03/01/23 18:08
880-25343-19	MWD-5-W-230301	Water	03/01/23 14:58	03/01/23 18:08
880-25343-20	DUP-1-W-230301	Water	03/01/23 00:00	03/01/23 18:08
880-25343-21	DUP-2-W-230301	Water	03/01/23 00:00	03/01/23 18:08

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Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com Page 1 of 3

Work Order No: _____

Project Manager:	Rebecca Andresen	Bill to: (if different)	
Company Name:	ARCADIS	Company Name:	
Address:	1004 N Big Spring St.	Address:	
City, State ZIP:	Midland, TX. 79701	City, State ZIP:	
Phone:	303-471-2477 Email:	andrew demarco@arcadis.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: New Mexico
Reporting Level II ☐ Level III ☒ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☒ ADaPT ☐ Other

Project Name:	Eunice Project-N Eunice	Turn Around	
Project Number:	30109021	Routine	☒
P.O. Number:		Rush	
Sampler's Name:	Jerry Longwell/Daniel McGee	Due Date	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C)		Thermometer ID		
Received Intact.	Yes No			
Cooler Custody Seals.	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

880-25343 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (SW8015B)	Hex Chrome (SW7196A)	Dissolved Metals (SW6020_DIS) Aresenic, Maganese, Iron & Chromium	TDS (SM2540C)	Chlorides (EPA 300 0)
MW-15-W-230301	W	03/01/23	0748		8	X	X	X	X	X	X
MW-16W-230301	W	03/01/23	0819		8	X	X	X	X	X	X
MW-36-W-230301	W	03/01/23	0848		8	X	X	X	X	X	X
MW-35-W-230301	W	03/01/23	0908		8	X	X	X	X	X	X
MW-34-W-230301	W	03/01/23	0922		8	X	X	X	X	X	X
MW-6-W-230301	W	03/01/23	0950		8	X	X	X	X	X	X
MW-10-W-230301	W	03/01/23	1005		8	X	X	X	X	X	X
MW-9-W-230301	W	03/01/23	1022		8	X	X	X	X	X	X
MW-7-W-230301	W	03/01/23	1035		8	X	X	X	X	X	X
MW-2-W-230301	W	03/01/23	1050		8	X	X	X	X	X	X

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

All Samples Collected In MST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		03/01/23 1800	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

Received by OCD: 3/13/2024 8:36:42 PM

Released to Imaging: 4/30/2024 10:08:36 AM

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3/15/2023

Chain of Custody

XENCO LABORATORIES

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com

Work Order No: 25343

Page 2 of 3

Project Manager:	Rebecca Andresen	Bill to: (if different)	
Company Name:	ARCADIS	Company Name:	
Address:	1004 N. Big Spring St.	Address:	
City, State ZIP:	Midland, TX. 79701	City, State ZIP	
Phone:	303-471-2477 Email:	andrew demarco@arcadis com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC Superfund ☐
State of Project: New Mexico
Reporting Level II ☒ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☒ ADaPT ☐ Other

Project Name:	Eunice Project-N Eunice	Turn Around	
Project Number:	30109021	Routine	✓
P.O. Number:		Rush	
Sampler's Name:	Jerry Longwell/Daniel McGee	Due Date	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C)	3.9/3.6	Thermometer ID	IR8	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor	-0.3	
Sample Custody Seals.	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (SW8015B)	Hex Chrome (SW7196A)	Dissolved Metals (SW6020_DIS) Aresenic, Maganese, Iron & Chromium	TDS (SM2540C)	Chlorides (EPA 300 0)
MW-8-W-230301	W	03/01/23	1228		8	X	X	X	X	X	X
MW-25-W-230301	W	03/01/23	1244		8	X	X	X	X	X	X
MW-13-W-230301	W	03/01/23	1303		8	X	X	X	X	X	X
MW-31-W-230301	W	03/01/23	1319		8	X	X	X	X	X	X
MW-14-W-230301	W	03/01/23	1338		8	X	X	X	X	X	X
MW-37-W-230301	W	03/01/23	1403		8	X	X	X	X	X	X
MW-34-W-230301	W	03/01/23	1423		6	X	X	X	X	X	X
MW-32-W-230301	W	03/01/23	1445		8	X	X	X	X	X	X
MWD-5-W-230301	W	03/01/23	1458		8	X	X	X	X	X	X
DUP1-W-230301	W	03/01/23	—		8	X	X	X	X	X	X

Work Order Notes

TAT starts the day recevied by the lab if received by 4.30pm

Sample Comments

All Samples Collected In MST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by. (Signature)	Received by: (Signature)	Date/Time
1		03/01/23 1900	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

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Received by OCD: 3/13/2024 8:36:42 PM

Released to Imaging: 4/30/2024 10:08:36 AM

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Chain of Custody

XENCO LABORATORIES

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www.xenco.com Page 3 of 3

Work Order No: _____

Project Manager	Rebecca Andresen	Bill to: (if different)	
Company Name:	ARCADIS	Company Name:	
Address:	1004 N. Big Spring St.	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP	
Phone:	303-471-2477 Email	andrew.demarco@arcadis.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: New Mexico
Reporting Level II ☒ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☒ ADaPT ☐ Other

Project Name:	Eunice Project-N Eunice	Turn Around	
Project Number:	30109021	Routine	☒
P.O. Number:		Rush	
Sampler's Name:	Jerry Longwell/Daniel McGee	Due Date	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C)		Thermometer ID		
Received Intact.	Yes No			
Cooler Custody Seals.	Yes No N/A	Correction Factor		
Sample Custody Seals:	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (SW8015B)	Hex Chrome (SW7196A)	Dissolved Metals (SW6020_DIS): Aresenic, Maganese, Iron & Chromium	TDS (SM2540C)	Chlorides (EPA 300 0)
DUP-2.W-230301	W	03/01/23	—		8	X	X	X	X	X	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab if received by 4.30pm

Sample Comments

All Samples Collected Ec MSF

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by (Signature)	Received by: (Signature)	Date/Time
1			03/01/23 1950	2		
3				4		
5				6		

Revised Date 051418 Rev 2018.1

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Received by OCD: 3/13/2024 8:36:42 PM

Released to Imaging: 4/30/2024 10:08:36 AM

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 880-25343-1

Login Number: 25343 **List Source: Eurofins Midland**
List Number: 1
Creator: Kramer, Jessica

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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 880-25343-1

Login Number: 25343 **List Source: Eurofins Houston**
List Number: 2 **List Creation: 03/06/23 02:48 PM**
Creator: Canadilla, Surelis

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Andrew DeMarco
ARCADIS U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 3/15/2023 4:18:42 PM

JOB DESCRIPTION

Eunice Project - South Eunice

JOB NUMBER

880-25396-1

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
3/15/2023 4:18:42 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Laboratory Job ID: 880-25396-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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.
¤	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

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Job ID: 880-25396-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-25396-1

Receipt
The samples were received on 3/2/2023 4:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 860-92862 and analytical batch 860-92785 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside the upper control limit: MWD-7-W-230302 (880-25396-9) and MWD-8-W-230302 (880-25396-12). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC
Method 300_ORGFM_28D: The method blank for analytical batch 860-93441 contained Chloride above the method detection limit (MDL) . Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MWD-12-W-230302 (880-25396-1), RW-6-W-230302 (880-25396-4), MW-17-W-230302 (880-25396-10), MWD-2-W-230302 (880-25396-13) and MWD-4-W-230302 (880-25396-14). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-22-W-230302 (880-25396-7). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MWD-13-W-230302 (880-25396-3), MWD-17-W-230302 (880-25396-6) and MWD-7-W-230302 (880-25396-9). Elevated reporting limits (RLs) are provided.

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

Metals
Method 6020A: The following samples were diluted due to the nature of the sample matrix: MWD-12-W-230302 (880-25396-1), MWD-13-W-230302 (880-25396-3), RW-6-W-230302 (880-25396-4), RW-7-W-230302 (880-25396-5), MWD-17-W-230302 (880-25396-6), MW-22-W-230302 (880-25396-7), MWD-3-W-230302 (880-25396-8) and MWD-7-W-230302 (880-25396-9). Elevated reporting limits (RLs) are provided.

Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: MWD-12-W-230302 (880-25396-1), RW-6-W-230302 (880-25396-4), MW-22-W-230302 (880-25396-7), MWD-3-W-230302 (880-25396-8) and MWD-7-W-230302 (880-25396-9). Elevated reporting limits (RLs) are provided.

Method 6020A: The following samples were diluted due to the nature of the sample matrix: MWD-13-W-230302 (880-25396-3), RW-7-W-230302 (880-25396-5) and MWD-17-W-230302 (880-25396-6). Elevated reporting limits (RLs) are provided.

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

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Job ID: 880-25396-1 (Continued)

Laboratory: Eurofins Midland (Continued)

General Chemistry

Method 7196A: Sample had reading but did not change color. Yellow color indicating an iron interferent. Sample reported as 0.880-25396-A-4- .0059 mg/L880-25396-A-7- .0054 mg/L880-25396-A-8- .0097 mg/L

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

Released to Imaging: 4/30/2024 10:08:36 AM

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-12-W-230302 **Lab Sample ID: 880-25396-1**
Date Collected: 03/02/23 07:51 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0140	*- *1	0.00200	0.000408	mg/L			03/03/23 17:02	1
Toluene	0.000451	J *- *1	0.00200	0.000367	mg/L			03/03/23 17:02	1
Ethylbenzene	0.0482	*- *1	0.00200	0.000657	mg/L			03/03/23 17:02	1
m-Xylene & p-Xylene	0.00529	*- *+ *1	0.00400	0.000629	mg/L			03/03/23 17:02	1
o-Xylene	0.00527	*- *+ *1	0.00200	0.000642	mg/L			03/03/23 17:02	1
Xylenes, Total	0.0106	*- *+ *1	0.00400	0.000642	mg/L			03/03/23 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*		*03/03/23 17:02*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*		*03/03/23 17:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0732		0.00400	0.000657	mg/L			03/06/23 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2.63	J	4.48	0.885	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	0.927	J	4.48	0.885	mg/L		03/07/23 15:08	03/07/23 21:18	1
Diesel Range Organics (Over C10-C28)	1.70	J	4.48	0.885	mg/L		03/07/23 15:08	03/07/23 21:18	1
OII Range Organics (Over C28-C36)	<0.854	U	4.48	0.854	mg/L		03/07/23 15:08	03/07/23 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 135*	*03/07/23 15:08*	*03/07/23 21:18*	*1*
o-Terphenyl	*108*		*70 - 135*	*03/07/23 15:08*	*03/07/23 21:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1770	B	5.00	2.00	mg/L			03/09/23 22:55	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0416		0.0200	0.00145	mg/L		03/06/23 08:30	03/07/23 18:22	5
Barium	0.320		0.0400	0.0134	mg/L		03/06/23 08:30	03/08/23 17:25	10
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 08:30	03/07/23 18:22	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	4560		40.0	40.0	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-4-W-230302 **Lab Sample ID: 880-25396-2**
Date Collected: 03/02/23 08:11 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1	0.00200	0.000408	mg/L			03/03/23 17:23	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			03/03/23 17:23	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			03/03/23 17:23	1
m-Xylene & p-Xylene	<0.000629	U *- *+ *1	0.00400	0.000629	mg/L			03/03/23 17:23	1
o-Xylene	<0.000642	U *- *+ *1	0.00200	0.000642	mg/L			03/03/23 17:23	1
Xylenes, Total	<0.000642	U *- *+ *1	0.00400	0.000642	mg/L			03/03/23 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*03/03/23 17:23*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*		*03/03/23 17:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/06/23 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.941	U	4.76	0.941	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.941	U	4.76	0.941	mg/L		03/07/23 15:08	03/07/23 21:38	1
Diesel Range Organics (Over C10-C28)	<0.941	U	4.76	0.941	mg/L		03/07/23 15:08	03/07/23 21:38	1
OII Range Organics (Over C28-C36)	<0.908	U	4.76	0.908	mg/L		03/07/23 15:08	03/07/23 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 135*	*03/07/23 15:08*	*03/07/23 21:38*	*1*
o-Terphenyl	*113*		*70 - 135*	*03/07/23 15:08*	*03/07/23 21:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.4**	**B**	0.500	0.200	mg/L			03/09/23 22:32	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0127**		0.00400	0.000290	mg/L		03/06/23 08:30	03/06/23 19:11	1
Barium	**0.0821**		0.00400	0.00134	mg/L		03/06/23 08:30	03/06/23 19:11	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 08:30	03/06/23 19:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1600**		20.0	20.0	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-13-W-230302
Lab Sample ID: 880-25396-3
Date Collected: 03/02/23 08:27
Matrix: Water
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1	0.00200	0.000408	mg/L			03/03/23 18:46	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			03/03/23 18:46	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			03/03/23 18:46	1
m-Xylene & p-Xylene	<0.000629	U *- *+ *1	0.00400	0.000629	mg/L			03/03/23 18:46	1
o-Xylene	<0.000642	U *- *+ *1	0.00200	0.000642	mg/L			03/03/23 18:46	1
Xylenes, Total	<0.000642	U *- *+ *1	0.00400	0.000642	mg/L			03/03/23 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*03/03/23 18:46*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*		*03/03/23 18:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/06/23 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.859	U	4.35	0.859	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.859	U	4.35	0.859	mg/L		03/07/23 15:08	03/08/23 02:31	1
Diesel Range Organics (Over C10-C28)	<0.859	U	4.35	0.859	mg/L		03/07/23 15:08	03/08/23 02:31	1
OII Range Organics (Over C28-C36)	<0.829	U	4.35	0.829	mg/L		03/07/23 15:08	03/08/23 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 135*	*03/07/23 15:08*	*03/08/23 02:31*	*1*
o-Terphenyl	*101*		*70 - 135*	*03/07/23 15:08*	*03/08/23 02:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5360**		50.0	20.0	mg/L			03/13/23 17:58	100

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0401**		0.0200	0.00145	mg/L		03/06/23 08:30	03/07/23 18:25	5
Barium	**0.128**		0.0400	0.0134	mg/L		03/06/23 08:30	03/08/23 17:27	10
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 08:30	03/07/23 18:25	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**10200**		100	100	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: RW-6-W-230302

Lab Sample ID: 880-25396-4

Date Collected: 03/02/23 08:48

Matrix: Water

Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0318**		0.0200	0.00408	mg/L			03/15/23 08:40	10
Toluene	<0.00367	U	0.0200	0.00367	mg/L			03/15/23 08:40	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			03/15/23 08:40	10
m-Xylene & p-Xylene	<0.00629	U	0.0400	0.00629	mg/L			03/15/23 08:40	10
o-Xylene	<0.00642	U *+	0.0200	0.00642	mg/L			03/15/23 08:40	10
Xylenes, Total	<0.00642	U	0.0400	0.00642	mg/L			03/15/23 08:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*03/15/23 08:40*	*10*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*		*03/15/23 08:40*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0318**	**J**	0.0400	0.00657	mg/L			03/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2.95**	**J**	4.45	0.880	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.64**	**J**	4.45	0.880	mg/L		03/07/23 15:08	03/07/23 21:57	1
Diesel Range Organics (Over C10-C28)	**1.31**	**J**	4.45	0.880	mg/L		03/07/23 15:08	03/07/23 21:57	1
OII Range Organics (Over C28-C36)	<0.849	U	4.45	0.849	mg/L		03/07/23 15:08	03/07/23 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 135*	*03/07/23 15:08*	*03/07/23 21:57*	*1*
o-Terphenyl	*108*		*70 - 135*	*03/07/23 15:08*	*03/07/23 21:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1130**	**B**	5.00	2.00	mg/L			03/09/23 23:19	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00517**	**J**	0.0200	0.00145	mg/L		03/06/23 08:30	03/07/23 18:27	5
Barium	**1.86**		0.0800	0.0268	mg/L		03/06/23 08:30	03/08/23 17:37	20
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 08:30	03/07/23 18:27	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3050**		40.0	40.0	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: RW-7-W-230302
Lab Sample ID: 880-25396-5
Date Collected: 03/02/23 09:04
Matrix: Water
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1	0.00200	0.000408	mg/L			03/03/23 19:06	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			03/03/23 19:06	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			03/03/23 19:06	1
m-Xylene & p-Xylene	<0.000629	U *- *+ *1	0.00400	0.000629	mg/L			03/03/23 19:06	1
o-Xylene	<0.000642	U *- *+ *1	0.00200	0.000642	mg/L			03/03/23 19:06	1
Xylenes, Total	<0.000642	U *- *+ *1	0.00400	0.000642	mg/L			03/03/23 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*03/03/23 19:06*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*		*03/03/23 19:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/06/23 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.898	U	4.55	0.898	mg/L			03/08/23 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.898	U	4.55	0.898	mg/L		03/07/23 15:08	03/08/23 12:49	1
Diesel Range Organics (Over C10-C28)	<0.898	U	4.55	0.898	mg/L		03/07/23 15:08	03/08/23 12:49	1
OII Range Organics (Over C28-C36)	<0.867	U	4.55	0.867	mg/L		03/07/23 15:08	03/08/23 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 135*	*03/07/23 15:08*	*03/08/23 12:49*	*1*
o-Terphenyl	*107*		*70 - 135*	*03/07/23 15:08*	*03/08/23 12:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4390**	**B**	5.00	2.00	mg/L			03/09/23 23:43	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00880**	**J**	0.0200	0.00145	mg/L		03/06/23 08:30	03/07/23 18:30	5
Barium	**0.0921**		0.0400	0.0134	mg/L		03/06/23 08:30	03/08/23 17:39	10
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 08:30	03/07/23 18:30	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**10400**		100	100	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-17-W-230302 **Lab Sample ID: 880-25396-6**
Date Collected: 03/02/23 09:20 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0115**	**J**	0.0200	0.00408	mg/L			03/15/23 09:11	10
Toluene	<0.00367	U	0.0200	0.00367	mg/L			03/15/23 09:11	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			03/15/23 09:11	10
m-Xylene & p-Xylene	<0.00629	U	0.0400	0.00629	mg/L			03/15/23 09:11	10
o-Xylene	<0.00642	U *+	0.0200	0.00642	mg/L			03/15/23 09:11	10
Xylenes, Total	<0.00642	U	0.0400	0.00642	mg/L			03/15/23 09:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*03/15/23 09:11*	*10*
1,4-Difluorobenzene (Surr)	*67*	*S1-*	*70 - 130*		*03/15/23 09:11*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0115**	**J**	0.0400	0.00657	mg/L			03/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.909	U	4.60	0.909	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.909	U	4.60	0.909	mg/L		03/07/23 15:08	03/07/23 22:37	1
Diesel Range Organics (Over C10-C28)	<0.909	U	4.60	0.909	mg/L		03/07/23 15:08	03/07/23 22:37	1
OII Range Organics (Over C28-C36)	<0.877	U	4.60	0.877	mg/L		03/07/23 15:08	03/07/23 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 135*	*03/07/23 15:08*	*03/07/23 22:37*	*1*
o-Terphenyl	*114*		*70 - 135*	*03/07/23 15:08*	*03/07/23 22:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5510**		50.0	20.0	mg/L			03/13/23 18:10	100

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0995**		0.0200	0.00145	mg/L		03/06/23 08:30	03/07/23 18:32	5
Barium	**0.351**		0.0400	0.0134	mg/L		03/06/23 08:30	03/08/23 17:42	10
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 08:30	03/07/23 18:32	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**11200**		100	100	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-22-W-230302

Lab Sample ID: 880-25396-7

Date Collected: 03/02/23 09:32

Matrix: Water

Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00408	U	0.0200	0.00408	mg/L			03/15/23 09:32	10
Toluene	<0.00367	U	0.0200	0.00367	mg/L			03/15/23 09:32	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			03/15/23 09:32	10
m-Xylene & p-Xylene	<0.00629	U	0.0400	0.00629	mg/L			03/15/23 09:32	10
o-Xylene	<0.00642	U *+	0.0200	0.00642	mg/L			03/15/23 09:32	10
Xylenes, Total	<0.00642	U	0.0400	0.00642	mg/L			03/15/23 09:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*		*03/15/23 09:32*	*10*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*		*03/15/23 09:32*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00657	U	0.0400	0.00657	mg/L			03/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1.07**	**J**	5.02	0.991	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.991	U	5.02	0.991	mg/L		03/07/23 15:08	03/07/23 22:57	1
Diesel Range Organics (Over C10-C28)	**1.07**	**J**	5.02	0.991	mg/L		03/07/23 15:08	03/07/23 22:57	1
OII Range Organics (Over C28-C36)	<0.957	U	5.02	0.957	mg/L		03/07/23 15:08	03/07/23 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 135*	*03/07/23 15:08*	*03/07/23 22:57*	*1*
o-Terphenyl	*101*		*70 - 135*	*03/07/23 15:08*	*03/07/23 22:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5740**		50.0	20.0	mg/L			03/11/23 03:25	100

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0506**		0.0200	0.00145	mg/L		03/06/23 08:30	03/07/23 18:35	5
Barium	**1.60**		0.0400	0.0134	mg/L		03/06/23 08:30	03/08/23 17:44	10
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 08:30	03/07/23 18:35	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**10900**		100	100	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-3-W-230302 **Lab Sample ID: 880-25396-8**
Date Collected: 03/02/23 09:44 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.81**		0.0400	0.00816	mg/L			03/15/23 16:55	20
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 07:33	1
Ethylbenzene	**0.00164**	**J**	0.00200	0.000657	mg/L			03/15/23 07:33	1
m-Xylene & p-Xylene	**0.000800**	**J**	0.00400	0.000629	mg/L			03/15/23 07:33	1
o-Xylene	**0.00199**	**J *+**	0.00200	0.000642	mg/L			03/15/23 07:33	1
Xylenes, Total	**0.00279**	**J**	0.00400	0.000642	mg/L			03/15/23 07:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*		*03/15/23 07:33*	*1*
1,4-Difluorobenzene (Surr)	*251*	*S1+*	*70 - 130*		*03/15/23 07:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.81**		0.00400	0.000657	mg/L			03/15/23 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3.02**	**J**	4.62	0.912	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**3.02**	**J**	4.62	0.912	mg/L		03/07/23 15:08	03/07/23 23:16	1
Diesel Range Organics (Over C10-C28)	<0.912	U	4.62	0.912	mg/L		03/07/23 15:08	03/07/23 23:16	1
OII Range Organics (Over C28-C36)	<0.880	U	4.62	0.880	mg/L		03/07/23 15:08	03/07/23 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 135*	*03/07/23 15:08*	*03/07/23 23:16*	*1*
o-Terphenyl	*109*		*70 - 135*	*03/07/23 15:08*	*03/07/23 23:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18400**	**B**	50.0	20.0	mg/L			03/10/23 00:43	100

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0543**		0.0200	0.00145	mg/L		03/06/23 08:30	03/07/23 18:37	5
Barium	**13.1**		0.200	0.0671	mg/L		03/06/23 08:30	03/08/23 17:46	50
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 08:30	03/07/23 18:37	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**33900**		200	200	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-7-W-230302 **Lab Sample ID: 880-25396-9**
Date Collected: 03/02/23 09:59 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1	0.00200	0.000408	mg/L			03/03/23 19:27	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			03/03/23 19:27	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			03/03/23 19:27	1
m-Xylene & p-Xylene	<0.000629	U *- *+ *1	0.00400	0.000629	mg/L			03/03/23 19:27	1
o-Xylene	<0.000642	U *- *+ *1	0.00200	0.000642	mg/L			03/03/23 19:27	1
Xylenes, Total	<0.000642	U *- *+ *1	0.00400	0.000642	mg/L			03/03/23 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*03/03/23 19:27*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*		*03/03/23 19:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/06/23 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.950	U	4.81	0.950	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.950	U	4.81	0.950	mg/L		03/09/23 16:01	03/10/23 16:29	1
Diesel Range Organics (Over C10-C28)	<0.950	U	4.81	0.950	mg/L		03/09/23 16:01	03/10/23 16:29	1
OII Range Organics (Over C28-C36)	<0.917	U	4.81	0.917	mg/L		03/09/23 16:01	03/10/23 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*147*	*S1+*	*70 - 135*	*03/09/23 16:01*	*03/10/23 16:29*	*1*
o-Terphenyl	*179*	*S1+*	*70 - 135*	*03/09/23 16:01*	*03/10/23 16:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6170**		50.0	20.0	mg/L			03/13/23 19:12	100

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0137**	**J**	0.0200	0.00145	mg/L		03/06/23 08:30	03/07/23 18:39	5
Barium	**0.0585**		0.0200	0.00671	mg/L		03/06/23 08:30	03/08/23 17:06	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 08:30	03/07/23 18:39	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**13100**		100	100	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-17-W-230302 Lab Sample ID: 880-25396-10

Date Collected: 03/02/23 10:14 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1	0.00200	0.000408	mg/L			03/03/23 19:47	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			03/03/23 19:47	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			03/03/23 19:47	1
m-Xylene & p-Xylene	<0.000629	U *- *+ *1	0.00400	0.000629	mg/L			03/03/23 19:47	1
o-Xylene	<0.000642	U *- *+ *1	0.00200	0.000642	mg/L			03/03/23 19:47	1
Xylenes, Total	<0.000642	U *- *+ *1	0.00400	0.000642	mg/L			03/03/23 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*03/03/23 19:47*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*		*03/03/23 19:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/06/23 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.932	U	4.72	0.932	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.932	U	4.72	0.932	mg/L		03/09/23 15:58	03/10/23 17:09	1
Diesel Range Organics (Over C10-C28)	<0.932	U	4.72	0.932	mg/L		03/09/23 15:58	03/10/23 17:09	1
OII Range Organics (Over C28-C36)	<0.900	U	4.72	0.900	mg/L		03/09/23 15:58	03/10/23 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 135*	*03/09/23 15:58*	*03/10/23 17:09*	*1*
o-Terphenyl	*99*		*70 - 135*	*03/09/23 15:58*	*03/10/23 17:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**885**	**B**	5.00	2.00	mg/L			03/10/23 04:05	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0134**		0.00400	0.000290	mg/L		03/06/23 09:30	03/06/23 17:05	1
Barium	**0.131**		0.00400	0.00134	mg/L		03/06/23 09:30	03/06/23 17:05	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 09:30	03/06/23 17:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**2510**		20.0	20.0	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-1-W-230302 Lab Sample ID: 880-25396-11

Date Collected: 03/02/23 10:28 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1	0.00200	0.000408	mg/L			03/03/23 20:08	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			03/03/23 20:08	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			03/03/23 20:08	1
m-Xylene & p-Xylene	<0.000629	U *- *+ *1	0.00400	0.000629	mg/L			03/03/23 20:08	1
o-Xylene	<0.000642	U *- *+ *1	0.00200	0.000642	mg/L			03/03/23 20:08	1
Xylenes, Total	<0.000642	U *- *+ *1	0.00400	0.000642	mg/L			03/03/23 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*03/03/23 20:08*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*		*03/03/23 20:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/06/23 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.950	U	4.81	0.950	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.950	U	4.81	0.950	mg/L		03/09/23 16:01	03/10/23 17:29	1
Diesel Range Organics (Over C10-C28)	<0.950	U	4.81	0.950	mg/L		03/09/23 16:01	03/10/23 17:29	1
OII Range Organics (Over C28-C36)	<0.917	U	4.81	0.917	mg/L		03/09/23 16:01	03/10/23 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 135*	*03/09/23 16:01*	*03/10/23 17:29*	*1*
o-Terphenyl	*99*		*70 - 135*	*03/09/23 16:01*	*03/10/23 17:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**420**	**B**	0.500	0.200	mg/L			03/10/23 04:17	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0473**		0.00400	0.000290	mg/L		03/06/23 09:30	03/06/23 17:24	1
Barium	**0.0522**		0.00400	0.00134	mg/L		03/06/23 09:30	03/06/23 17:24	1
Chromium	**0.00324**	**J**	0.00400	0.000560	mg/L		03/06/23 09:30	03/06/23 17:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1540**		20.0	20.0	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 08:15	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-8-W-230302
Lab Sample ID: 880-25396-12
Date Collected: 03/02/23 10:48
Matrix: Water
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *- *1	0.00200	0.000408	mg/L			03/03/23 20:28	1
Toluene	<0.000367	U *- *1	0.00200	0.000367	mg/L			03/03/23 20:28	1
Ethylbenzene	<0.000657	U *- *1	0.00200	0.000657	mg/L			03/03/23 20:28	1
m-Xylene & p-Xylene	<0.000629	U *- *+ *1	0.00400	0.000629	mg/L			03/03/23 20:28	1
o-Xylene	<0.000642	U *- *+ *1	0.00200	0.000642	mg/L			03/03/23 20:28	1
Xylenes, Total	<0.000642	U *- *+ *1	0.00400	0.000642	mg/L			03/03/23 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*03/03/23 20:28*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*		*03/03/23 20:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/06/23 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.893	U	4.52	0.893	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.893	U	4.52	0.893	mg/L		03/09/23 16:01	03/10/23 17:49	1
Diesel Range Organics (Over C10-C28)	<0.893	U	4.52	0.893	mg/L		03/09/23 16:01	03/10/23 17:49	1
OII Range Organics (Over C28-C36)	<0.862	U	4.52	0.862	mg/L		03/09/23 16:01	03/10/23 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 135*	*03/09/23 16:01*	*03/10/23 17:49*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 135*	*03/09/23 16:01*	*03/10/23 17:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**	**B**	0.500	0.200	mg/L			03/10/23 04:41	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0237**		0.00400	0.000290	mg/L		03/06/23 09:30	03/06/23 17:26	1
Barium	**0.0356**		0.00400	0.00134	mg/L		03/06/23 09:30	03/06/23 17:26	1
Chromium	**0.00152**	**J**	0.00400	0.000560	mg/L		03/06/23 09:30	03/06/23 17:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**631**		10.0	10.0	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 08:15	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-2-W-230302
Lab Sample ID: 880-25396-13
Date Collected: 03/02/23 12:24
Matrix: Water
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 11:49	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 11:49	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 11:49	1
m-Xylene & p-Xylene	**0.00159**	**J**	0.00400	0.000629	mg/L			03/15/23 11:49	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 11:49	1
Xylenes, Total	**0.00159**	**J**	0.00400	0.000642	mg/L			03/15/23 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*		*03/15/23 11:49*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*		*03/15/23 11:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00159**	**J**	0.00400	0.000657	mg/L			03/15/23 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.929	U	4.70	0.929	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.929	U	4.70	0.929	mg/L		03/09/23 16:01	03/10/23 18:09	1
Diesel Range Organics (Over C10-C28)	<0.929	U	4.70	0.929	mg/L		03/09/23 16:01	03/10/23 18:09	1
OII Range Organics (Over C28-C36)	<0.897	U	4.70	0.897	mg/L		03/09/23 16:01	03/10/23 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 135*	*03/09/23 16:01*	*03/10/23 18:09*	*1*
o-Terphenyl	*110*		*70 - 135*	*03/09/23 16:01*	*03/10/23 18:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**805**	**B**	5.00	2.00	mg/L			03/10/23 05:16	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0128**		0.00400	0.000290	mg/L		03/06/23 09:30	03/06/23 17:29	1
Barium	**0.0437**		0.00400	0.00134	mg/L		03/06/23 09:30	03/06/23 17:29	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 09:30	03/06/23 17:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4000**		40.0	40.0	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 08:15	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-4-W-230302 **Lab Sample ID: 880-25396-14**
Date Collected: 03/02/23 12:43 **Matrix: Water**
Date Received: 03/02/23 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 12:15	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 12:15	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 12:15	1
m-Xylene & p-Xylene	**0.00160**	**J**	0.00400	0.000629	mg/L			03/15/23 12:15	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 12:15	1
Xylenes, Total	**0.00160**	**J**	0.00400	0.000642	mg/L			03/15/23 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/15/23 12:15*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*		*03/15/23 12:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00160**	**J**	0.00400	0.000657	mg/L			03/15/23 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.887	U	4.49	0.887	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.887	U	4.49	0.887	mg/L		03/09/23 16:01	03/10/23 18:29	1
Diesel Range Organics (Over C10-C28)	<0.887	U	4.49	0.887	mg/L		03/09/23 16:01	03/10/23 18:29	1
OII Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		03/09/23 16:01	03/10/23 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 135*	*03/09/23 16:01*	*03/10/23 18:29*	*1*
o-Terphenyl	*111*		*70 - 135*	*03/09/23 16:01*	*03/10/23 18:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1820**	**B**	5.00	2.00	mg/L			03/10/23 06:04	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0119**		0.00400	0.000290	mg/L		03/06/23 09:30	03/06/23 17:31	1
Barium	**0.0852**		0.00400	0.00134	mg/L		03/06/23 09:30	03/06/23 17:31	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 09:30	03/06/23 17:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3950**		40.0	40.0	mg/L			03/07/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 08:15	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-25396-1	MWD-12-W-230302	143 S1+	88
880-25396-2	MWD-4-W-230302	109	71
880-25396-3	MWD-13-W-230302	88	82
880-25396-4	RW-6-W-230302	92	97
880-25396-5	RW-7-W-230302	97	74
880-25396-6	MWD-17-W-230302	111	67 S1-
880-25396-7	MW-22-W-230302	80	92
880-25396-8	MWD-3-W-230302	121	251 S1+
880-25396-9	MWD-7-W-230302	94	74
880-25396-10	MW-17-W-230302	102	81
880-25396-11	MWD-1-W-230302	100	76
880-25396-12	MWD-8-W-230302	96	82
880-25396-13	MWD-2-W-230302	114	97
880-25396-14	MWD-4-W-230302	101	93
LCS 880-47689/3	Lab Control Sample	117	102
LCS 880-48575/34	Lab Control Sample	97	104
LCS 880-48623/34	Lab Control Sample	141 S1+	97
LCSD 880-47689/4	Lab Control Sample Dup	122	101
LCSD 880-48575/35	Lab Control Sample Dup	107	112
LCSD 880-48623/35	Lab Control Sample Dup	129	98
MB 880-47689/8	Method Blank	77	83
MB 880-48335/5-A	Method Blank	61 S1-	89
MB 880-48336/5-A	Method Blank	90	84
MB 880-48575/39	Method Blank	65 S1-	89
MB 880-48623/39	Method Blank	85	82

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
880-25396-1	MWD-12-W-230302	91	108
880-25396-2	MWD-4-W-230302	95	113
880-25396-3	MWD-13-W-230302	85	101
880-25396-4	RW-6-W-230302	94	108
880-25396-5	RW-7-W-230302	89	107
880-25396-6	MWD-17-W-230302	98	114
880-25396-7	MW-22-W-230302	84	101
880-25396-8	MWD-3-W-230302	92	109
880-25396-9	MWD-7-W-230302	147 S1+	179 S1+
880-25396-10	MW-17-W-230302	93	99
880-25396-11	MWD-1-W-230302	96	99
880-25396-12	MWD-8-W-230302	126	136 S1+
880-25396-13	MWD-2-W-230302	106	110
880-25396-14	MWD-4-W-230302	99	111

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-135)	(70-135)										
LCS 860-92862/2-A	Lab Control Sample	109	128										
LCS 860-93478/2-A	Lab Control Sample	118	128										
LCS 860-93479/2-A	Lab Control Sample	108	100										
LCSD 860-92862/3-A	Lab Control Sample Dup	93	130										
LCSD 860-93478/3-A	Lab Control Sample Dup	108	121										
LCSD 860-93479/3-A	Lab Control Sample Dup	119	134										
MB 860-92862/1-A	Method Blank	130	167 S1+										
MB 860-93478/1-A	Method Blank	118	120										
MB 860-93479/1-A	Method Blank	93	97										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47689/8 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 47689

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/03/23 11:04	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/23 11:04	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/23 11:04	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/23 11:04	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 11:04	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/23 11:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*		*03/03/23 11:04*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*		*03/03/23 11:04*	*1*

Lab Sample ID: LCS 880-47689/3 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 47689

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.06223	*-	mg/L		62	70 - 130		
Toluene			0.100	0.05890	*-	mg/L		59	70 - 130		
Ethylbenzene			0.100	0.06072	*-	mg/L		61	70 - 130		
m-Xylene & p-Xylene			0.200	0.1284	*-	mg/L		64	70 - 130		
o-Xylene			0.100	0.06487	*-	mg/L		65	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-47689/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 47689

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1106	*1	mg/L		110	70 - 130	56	20
Toluene			0.101	0.1116	*1	mg/L		111	70 - 130	62	20
Ethylbenzene			0.100	0.1248	*1	mg/L		124	70 - 130	69	20
m-Xylene & p-Xylene			0.201	0.2659	*+ *1	mg/L		132	70 - 130	70	20
o-Xylene			0.101	0.1360	*+ *1	mg/L		135	70 - 130	71	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 880-48335/5-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 48575 **Prep Batch: 48335**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/10/23 14:49	03/14/23 15:26	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/10/23 14:49	03/14/23 15:26	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

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

Lab Sample ID: MB 880-48335/5-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 48575 **Prep Batch: 48335**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/10/23 14:49	03/14/23 15:26	1
m-Xylene & p-Xylene	0.001585	J	0.00400	0.000629	mg/L		03/10/23 14:49	03/14/23 15:26	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/10/23 14:49	03/14/23 15:26	1
Xylenes, Total	0.001585	J	0.00400	0.000642	mg/L		03/10/23 14:49	03/14/23 15:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*03/10/23 14:49*	*03/14/23 15:26*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/10/23 14:49*	*03/14/23 15:26*	*1*

Lab Sample ID: MB 880-48336/5-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 48623 **Prep Batch: 48336**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/10/23 14:51	03/14/23 18:57	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/10/23 14:51	03/14/23 18:57	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/10/23 14:51	03/14/23 18:57	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		03/10/23 14:51	03/14/23 18:57	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/10/23 14:51	03/14/23 18:57	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		03/10/23 14:51	03/14/23 18:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*03/10/23 14:51*	*03/14/23 18:57*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*03/10/23 14:51*	*03/14/23 18:57*	*1*

Lab Sample ID: MB 880-48575/39 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 48575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 05:03	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 05:03	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 05:03	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 05:03	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 05:03	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 05:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*		*03/15/23 05:03*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*		*03/15/23 05:03*	*1*

Lab Sample ID: LCS 880-48575/34 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 48575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08598		mg/L		86	70 - 130
Toluene	0.100	0.07419		mg/L		74	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25396-1

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

Lab Sample ID: LCS 880-48575/34
Matrix: Water
Analysis Batch: 48575

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.100	0.08449		mg/L		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1756		mg/L		88	70 - 130
o-Xylene	0.100	0.08688		mg/L		87	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-48575/35
Matrix: Water
Analysis Batch: 48575

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1079	*1	mg/L		108	70 - 130	23	20
Toluene	0.100	0.08788		mg/L		88	70 - 130	17	20
Ethylbenzene	0.100	0.09453		mg/L		95	70 - 130	11	20
m-Xylene & p-Xylene	0.200	0.1962		mg/L		98	70 - 130	11	20
o-Xylene	0.100	0.09739		mg/L		97	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: MB 880-48623/39
Matrix: Water
Analysis Batch: 48623

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 05:29	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 05:29	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 05:29	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 05:29	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 05:29	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 05:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*03/15/23 05:29*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*		*03/15/23 05:29*	*1*

Lab Sample ID: LCS 880-48623/34
Matrix: Water
Analysis Batch: 48623

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09500		mg/L		95	70 - 130
Toluene	0.100	0.09421		mg/L		94	70 - 130
Ethylbenzene	0.100	0.1143		mg/L		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2590		mg/L		129	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25396-1

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

Lab Sample ID: LCS 880-48623/34
Matrix: Water
Analysis Batch: 48623

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1308	*+	mg/L		131	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-48623/35
Matrix: Water
Analysis Batch: 48623

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1047		mg/L		105	70 - 130	10	20
Toluene			0.100	0.09768		mg/L		98	70 - 130	4	20
Ethylbenzene			0.100	0.1134		mg/L		113	70 - 130	1	20
m-Xylene & p-Xylene			0.200	0.2494		mg/L		125	70 - 130	4	20
o-Xylene			0.100	0.1250		mg/L		125	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-92862/1-A
Matrix: Water
Analysis Batch: 92785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		03/06/23 16:28	03/06/23 19:28	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		03/06/23 16:28	03/06/23 19:28	1
OII Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		03/06/23 16:28	03/06/23 19:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 135*	*03/06/23 16:28*	*03/06/23 19:28*	*1*
o-Terphenyl	*167*	*S1+*	*70 - 135*	*03/06/23 16:28*	*03/06/23 19:28*	*1*

Lab Sample ID: LCS 860-92862/2-A
Matrix: Water
Analysis Batch: 92785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92862

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			99.8	121.3		mg/L		122	70 - 135		
Diesel Range Organics (Over C10-C28)			100	118.4		mg/L		118	70 - 135		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 860-92862/2-A **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 92785 **Prep Batch: 92862**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	109		70 - 135
o-Terphenyl	128		70 - 135

Lab Sample ID: LCSD 860-92862/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 92785 **Prep Batch: 92862**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			99.8	122.7		mg/L		123	70 - 135	1	35
Diesel Range Organics (Over C10-C28)			100	122.4		mg/L		122	70 - 135	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	93		70 - 135
o-Terphenyl	130		70 - 135

Lab Sample ID: MB 860-93478/1-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93570 **Prep Batch: 93478**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		03/09/23 15:58	03/10/23 13:50	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		03/09/23 15:58	03/10/23 13:50	1
OII Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		03/09/23 15:58	03/10/23 13:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 135	03/09/23 15:58	03/10/23 13:50	1
o-Terphenyl	120		70 - 135	03/09/23 15:58	03/10/23 13:50	1

Lab Sample ID: LCS 860-93478/2-A **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93570 **Prep Batch: 93478**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			99.8	124.2		mg/L		124	70 - 135
Diesel Range Organics (Over C10-C28)			100	115.5		mg/L		116	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	118		70 - 135
o-Terphenyl	128		70 - 135

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 860-93478/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93570 **Prep Batch: 93478**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			99.8	112.9		mg/L		113	70 - 135	10	35
Diesel Range Organics (Over C10-C28)			100	107.7		mg/L		108	70 - 135	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 135*
o-Terphenyl	*121*		*70 - 135*

Lab Sample ID: MB 860-93479/1-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93570 **Prep Batch: 93479**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		03/09/23 16:01	03/10/23 14:49	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		03/09/23 16:01	03/10/23 14:49	1
OII Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		03/09/23 16:01	03/10/23 14:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 135*	*03/09/23 16:01*	*03/10/23 14:49*	*1*
o-Terphenyl	*97*		*70 - 135*	*03/09/23 16:01*	*03/10/23 14:49*	*1*

Lab Sample ID: LCS 860-93479/2-A **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93570 **Prep Batch: 93479**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			99.8	111.8		mg/L		112	70 - 135
Diesel Range Organics (Over C10-C28)			100	95.13		mg/L		95	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 135*
o-Terphenyl	*100*		*70 - 135*

Lab Sample ID: LCSD 860-93479/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93570 **Prep Batch: 93479**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			99.8	124.0		mg/L		124	70 - 135	10	35
Diesel Range Organics (Over C10-C28)			100	118.3		mg/L		118	70 - 135	22	35

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 860-93479/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93570 **Prep Batch: 93479**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	119		70 - 135
o-Terphenyl	134		70 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-93441/3 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93441

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.2038	J	0.500	0.200	mg/L			03/09/23 14:48	1

Lab Sample ID: MB 860-93441/43 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93441

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.2133	J	0.500	0.200	mg/L			03/10/23 01:18	1

Lab Sample ID: LCS 860-93441/4 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.681		mg/L		97	90 - 110

Lab Sample ID: LCS 860-93441/44 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.793		mg/L		98	90 - 110

Lab Sample ID: LCSD 860-93441/45 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93441

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.829		mg/L		98	90 - 110	0	20

Lab Sample ID: LCSD 860-93441/5 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93441

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.663		mg/L		97	90 - 110	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25396-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-93441/7
Matrix: Water
Analysis Batch: 93441

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.5502		mg/L		110	50 - 150

Lab Sample ID: MB 860-93644/3
Matrix: Water
Analysis Batch: 93644

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			03/10/23 15:02	1

Lab Sample ID: MB 860-93644/44
Matrix: Water
Analysis Batch: 93644

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			03/11/23 02:35	1

Lab Sample ID: LCS 860-93644/4
Matrix: Water
Analysis Batch: 93644

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.03		mg/L		100	90 - 110

Lab Sample ID: LCS 860-93644/45
Matrix: Water
Analysis Batch: 93644

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.14		mg/L		101	90 - 110

Lab Sample ID: LCSD 860-93644/46
Matrix: Water
Analysis Batch: 93644

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.24		mg/L		102	90 - 110	1	20

Lab Sample ID: LCSD 860-93644/5
Matrix: Water
Analysis Batch: 93644

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.11		mg/L		101	90 - 110	1	20

Lab Sample ID: LLCS 860-93644/7
Matrix: Water
Analysis Batch: 93644

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.5410		mg/L		108	50 - 150

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25396-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-93871/3
Matrix: Water
Analysis Batch: 93871

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			03/13/23 14:17	1

Lab Sample ID: MB 860-93871/39
Matrix: Water
Analysis Batch: 93871

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			03/13/23 22:18	1

Lab Sample ID: LCS 860-93871/4
Matrix: Water
Analysis Batch: 93871

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.795		mg/L		98	90 - 110

Lab Sample ID: LCS 860-93871/40
Matrix: Water
Analysis Batch: 93871

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.835		mg/L		98	90 - 110

Lab Sample ID: LCSD 860-93871/41
Matrix: Water
Analysis Batch: 93871

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.934		mg/L		99	90 - 110	1	20

Lab Sample ID: LCSD 860-93871/5
Matrix: Water
Analysis Batch: 93871

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.873		mg/L		99	90 - 110	1	20

Lab Sample ID: LLCS 860-93871/7
Matrix: Water
Analysis Batch: 93871

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.5503		mg/L		110	50 - 150

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25396-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-92735/1-A
Matrix: Water
Analysis Batch: 93018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000290	U	0.00400	0.000290	mg/L		03/06/23 08:30	03/06/23 18:31	1
Barium	<0.00134	U	0.00400	0.00134	mg/L		03/06/23 08:30	03/06/23 18:31	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 08:30	03/06/23 18:31	1

Lab Sample ID: LCS 860-92735/2-A
Matrix: Water
Analysis Batch: 93018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.1043		mg/L		104	80 - 120
Barium	0.100	0.1016		mg/L		102	80 - 120
Chromium	0.100	0.1034		mg/L		103	80 - 120

Lab Sample ID: LCSD 860-92735/3-A
Matrix: Water
Analysis Batch: 93018

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92735

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.100	0.1040		mg/L		104	80 - 120	0	20
Barium	0.100	0.1031		mg/L		103	80 - 120	1	20
Chromium	0.100	0.1056		mg/L		106	80 - 120	2	20

Lab Sample ID: MB 860-92759/1-A
Matrix: Water
Analysis Batch: 93018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000290	U	0.00400	0.000290	mg/L		03/06/23 09:30	03/06/23 16:47	1
Barium	<0.00134	U	0.00400	0.00134	mg/L		03/06/23 09:30	03/06/23 16:47	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 09:30	03/06/23 16:47	1

Lab Sample ID: LCS 860-92759/2-A
Matrix: Water
Analysis Batch: 93018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.1011		mg/L		101	80 - 120
Barium	0.100	0.1015		mg/L		102	80 - 120
Chromium	0.100	0.1016		mg/L		102	80 - 120

Lab Sample ID: LCSD 860-92759/3-A
Matrix: Water
Analysis Batch: 93018

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92759

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.100	0.1032		mg/L		103	80 - 120	2	20
Barium	0.100	0.1019		mg/L		102	80 - 120	0	20
Chromium	0.100	0.1043		mg/L		104	80 - 120	3	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25396-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 880-25396-10 MS
Matrix: Water
Analysis Batch: 93018

Client Sample ID: MW-17-W-230302
Prep Type: Dissolved
Prep Batch: 92759

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0134		0.100	0.1160		mg/L		103	75 - 125
Barium	0.131		0.100	0.2339		mg/L		103	75 - 125
Chromium	<0.000560	U	0.100	0.1064		mg/L		106	75 - 125

Lab Sample ID: 880-25396-10 MSD
Matrix: Water
Analysis Batch: 93018

Client Sample ID: MW-17-W-230302
Prep Type: Dissolved
Prep Batch: 92759

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0134		0.100	0.1175		mg/L		104	75 - 125	1	20
Barium	0.131		0.100	0.2348		mg/L		104	75 - 125	0	20
Chromium	<0.000560	U	0.100	0.1070		mg/L		107	75 - 125	1	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 880-48131/3
Matrix: Water
Analysis Batch: 48131

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 07:30	1

Lab Sample ID: LCS 880-48131/4
Matrix: Water
Analysis Batch: 48131

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	0.0400	0.04294		mg/L		107	85 - 115

Lab Sample ID: LCSD 880-48131/5
Matrix: Water
Analysis Batch: 48131

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	0.0400	0.04294		mg/L		107	85 - 115	0	20

Lab Sample ID: MB 880-48135/3
Matrix: Water
Analysis Batch: 48135

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 08:15	1

Lab Sample ID: LCS 880-48135/4
Matrix: Water
Analysis Batch: 48135

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	0.0400	0.04057		mg/L		101	85 - 115

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25396-1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSD 880-48135/5
Matrix: Water
Analysis Batch: 48135

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)			0.0400	0.04057		mg/L		101	85 - 115	0	20

Lab Sample ID: 880-25396-1 MS
Matrix: Water
Analysis Batch: 48131

Client Sample ID: MWD-12-W-230302
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	<0.00270	U	0.200	0.1977		mg/L		99	85 - 115

Lab Sample ID: 880-25396-1 MSD
Matrix: Water
Analysis Batch: 48131

Client Sample ID: MWD-12-W-230302
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	<0.00270	U	0.200	0.1977		mg/L		99	85 - 115	0	20

Lab Sample ID: 880-25396-11 MS
Matrix: Water
Analysis Batch: 48135

Client Sample ID: MWD-1-W-230302
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	<0.00270	U	0.200	0.2044		mg/L		102	85 - 115

Lab Sample ID: 880-25396-11 MSD
Matrix: Water
Analysis Batch: 48135

Client Sample ID: MWD-1-W-230302
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	<0.00270	U	0.200	0.2044		mg/L		102	85 - 115	0	20

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

Lab Sample ID: MB 860-93089/1
Matrix: Water
Analysis Batch: 93089

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00	mg/L			03/07/23 20:00	1

Lab Sample ID: LCS 860-93089/2
Matrix: Water
Analysis Batch: 93089

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids			1000	972.0		mg/L		97	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

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

Lab Sample ID: LCSD 860-93089/3 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93089

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	947.0		mg/L		95	80 - 120	3	10

Lab Sample ID: LLCS 860-93089/4 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93089

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	<5.00	U	mg/L		88	50 - 150		

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

GC VOA

Analysis Batch: 47689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-1	MWD-12-W-230302	Total/NA	Water	8021B	
880-25396-2	MWD-4-W-230302	Total/NA	Water	8021B	
880-25396-3	MWD-13-W-230302	Total/NA	Water	8021B	
880-25396-5	RW-7-W-230302	Total/NA	Water	8021B	
880-25396-9	MWD-7-W-230302	Total/NA	Water	8021B	
880-25396-10	MW-17-W-230302	Total/NA	Water	8021B	
880-25396-11	MWD-1-W-230302	Total/NA	Water	8021B	
880-25396-12	MWD-8-W-230302	Total/NA	Water	8021B	
MB 880-47689/8	Method Blank	Total/NA	Water	8021B	
LCS 880-47689/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-47689/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 47945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-1	MWD-12-W-230302	Total/NA	Water	Total BTEX	
880-25396-2	MWD-4-W-230302	Total/NA	Water	Total BTEX	
880-25396-3	MWD-13-W-230302	Total/NA	Water	Total BTEX	
880-25396-4	RW-6-W-230302	Total/NA	Water	Total BTEX	
880-25396-5	RW-7-W-230302	Total/NA	Water	Total BTEX	
880-25396-6	MWD-17-W-230302	Total/NA	Water	Total BTEX	
880-25396-7	MW-22-W-230302	Total/NA	Water	Total BTEX	
880-25396-8	MWD-3-W-230302	Total/NA	Water	Total BTEX	
880-25396-9	MWD-7-W-230302	Total/NA	Water	Total BTEX	
880-25396-10	MW-17-W-230302	Total/NA	Water	Total BTEX	
880-25396-11	MWD-1-W-230302	Total/NA	Water	Total BTEX	
880-25396-12	MWD-8-W-230302	Total/NA	Water	Total BTEX	
880-25396-13	MWD-2-W-230302	Total/NA	Water	Total BTEX	
880-25396-14	MWD-4-W-230302	Total/NA	Water	Total BTEX	

Prep Batch: 48335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48335/5-A	Method Blank	Total/NA	Water	5035	

Prep Batch: 48336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48336/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 48575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-13	MWD-2-W-230302	Total/NA	Water	8021B	
880-25396-14	MWD-4-W-230302	Total/NA	Water	8021B	
MB 880-48335/5-A	Method Blank	Total/NA	Water	8021B	48335
MB 880-48575/39	Method Blank	Total/NA	Water	8021B	
LCS 880-48575/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-48575/35	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 48623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-4	RW-6-W-230302	Total/NA	Water	8021B	
880-25396-6	MWD-17-W-230302	Total/NA	Water	8021B	
880-25396-7	MW-22-W-230302	Total/NA	Water	8021B	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

GC VOA (Continued)

Analysis Batch: 48623 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-8	MWD-3-W-230302	Total/NA	Water	8021B	
880-25396-8	MWD-3-W-230302	Total/NA	Water	8021B	
MB 880-48336/5-A	Method Blank	Total/NA	Water	8021B	48336
MB 880-48623/39	Method Blank	Total/NA	Water	8021B	
LCS 880-48623/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-48623/35	Lab Control Sample Dup	Total/NA	Water	8021B	

GC Semi VOA

Analysis Batch: 80443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-1	MWD-12-W-230302	Total/NA	Water	8015 NM	
880-25396-2	MWD-4-W-230302	Total/NA	Water	8015 NM	
880-25396-3	MWD-13-W-230302	Total/NA	Water	8015 NM	
880-25396-4	RW-6-W-230302	Total/NA	Water	8015 NM	
880-25396-5	RW-7-W-230302	Total/NA	Water	8015 NM	
880-25396-6	MWD-17-W-230302	Total/NA	Water	8015 NM	
880-25396-7	MW-22-W-230302	Total/NA	Water	8015 NM	
880-25396-8	MWD-3-W-230302	Total/NA	Water	8015 NM	
880-25396-9	MWD-7-W-230302	Total/NA	Water	8015 NM	
880-25396-10	MW-17-W-230302	Total/NA	Water	8015 NM	
880-25396-11	MWD-1-W-230302	Total/NA	Water	8015 NM	
880-25396-12	MWD-8-W-230302	Total/NA	Water	8015 NM	
880-25396-13	MWD-2-W-230302	Total/NA	Water	8015 NM	
880-25396-14	MWD-4-W-230302	Total/NA	Water	8015 NM	

Analysis Batch: 92785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-92862/1-A	Method Blank	Total/NA	Water	8015B NM	92862
LCS 860-92862/2-A	Lab Control Sample	Total/NA	Water	8015B NM	92862
LCSD 860-92862/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	92862

Prep Batch: 92862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-1	MWD-12-W-230302	Total/NA	Water	8015NM Aq Prep	
880-25396-2	MWD-4-W-230302	Total/NA	Water	8015NM Aq Prep	
880-25396-3	MWD-13-W-230302	Total/NA	Water	8015NM Aq Prep	
880-25396-4	RW-6-W-230302	Total/NA	Water	8015NM Aq Prep	
880-25396-5	RW-7-W-230302	Total/NA	Water	8015NM Aq Prep	
880-25396-6	MWD-17-W-230302	Total/NA	Water	8015NM Aq Prep	
880-25396-7	MW-22-W-230302	Total/NA	Water	8015NM Aq Prep	
880-25396-8	MWD-3-W-230302	Total/NA	Water	8015NM Aq Prep	
MB 860-92862/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-92862/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-92862/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 93075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-1	MWD-12-W-230302	Total/NA	Water	8015B NM	92862
880-25396-2	MWD-4-W-230302	Total/NA	Water	8015B NM	92862
880-25396-3	MWD-13-W-230302	Total/NA	Water	8015B NM	92862

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

GC Semi VOA (Continued)

Analysis Batch: 93075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-4	RW-6-W-230302	Total/NA	Water	8015B NM	92862
880-25396-6	MWD-17-W-230302	Total/NA	Water	8015B NM	92862
880-25396-7	MW-22-W-230302	Total/NA	Water	8015B NM	92862
880-25396-8	MWD-3-W-230302	Total/NA	Water	8015B NM	92862

Analysis Batch: 93164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-5	RW-7-W-230302	Total/NA	Water	8015B NM	92862

Prep Batch: 93478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-10	MW-17-W-230302	Total/NA	Water	8015NM Aq Prep	
MB 860-93478/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-93478/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-93478/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Prep Batch: 93479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-9	MWD-7-W-230302	Total/NA	Water	8015NM Aq Prep	
880-25396-11	MWD-1-W-230302	Total/NA	Water	8015NM Aq Prep	
880-25396-12	MWD-8-W-230302	Total/NA	Water	8015NM Aq Prep	
880-25396-13	MWD-2-W-230302	Total/NA	Water	8015NM Aq Prep	
880-25396-14	MWD-4-W-230302	Total/NA	Water	8015NM Aq Prep	
MB 860-93479/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-93479/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-93479/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 93570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-9	MWD-7-W-230302	Total/NA	Water	8015B NM	93479
880-25396-10	MW-17-W-230302	Total/NA	Water	8015B NM	93478
880-25396-11	MWD-1-W-230302	Total/NA	Water	8015B NM	93479
880-25396-12	MWD-8-W-230302	Total/NA	Water	8015B NM	93479
880-25396-13	MWD-2-W-230302	Total/NA	Water	8015B NM	93479
880-25396-14	MWD-4-W-230302	Total/NA	Water	8015B NM	93479
MB 860-93478/1-A	Method Blank	Total/NA	Water	8015B NM	93478
MB 860-93479/1-A	Method Blank	Total/NA	Water	8015B NM	93479
LCS 860-93478/2-A	Lab Control Sample	Total/NA	Water	8015B NM	93478
LCS 860-93479/2-A	Lab Control Sample	Total/NA	Water	8015B NM	93479
LCSD 860-93478/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	93478
LCSD 860-93479/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	93479

HPLC/IC

Analysis Batch: 93441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-1 - DL	MWD-12-W-230302	Total/NA	Water	300.0	
880-25396-2	MWD-4-W-230302	Total/NA	Water	300.0	
880-25396-4 - DL	RW-6-W-230302	Total/NA	Water	300.0	
880-25396-5	RW-7-W-230302	Total/NA	Water	300.0	
880-25396-8	MWD-3-W-230302	Total/NA	Water	300.0	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

HPLC/IC (Continued)

Analysis Batch: 93441 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-10 - DL	MW-17-W-230302	Total/NA	Water	300.0	
880-25396-11	MWD-1-W-230302	Total/NA	Water	300.0	
880-25396-12	MWD-8-W-230302	Total/NA	Water	300.0	
880-25396-13 - DL	MWD-2-W-230302	Total/NA	Water	300.0	
880-25396-14 - DL	MWD-4-W-230302	Total/NA	Water	300.0	
MB 860-93441/3	Method Blank	Total/NA	Water	300.0	
MB 860-93441/43	Method Blank	Total/NA	Water	300.0	
LCS 860-93441/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-93441/44	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-93441/45	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-93441/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-93441/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 93644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-7 - DL	MW-22-W-230302	Total/NA	Water	300.0	
MB 860-93644/3	Method Blank	Total/NA	Water	300.0	
MB 860-93644/44	Method Blank	Total/NA	Water	300.0	
LCS 860-93644/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-93644/45	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-93644/46	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-93644/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-93644/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 93871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-3 - DL	MWD-13-W-230302	Total/NA	Water	300.0	
880-25396-6 - DL	MWD-17-W-230302	Total/NA	Water	300.0	
880-25396-9 - DL	MWD-7-W-230302	Total/NA	Water	300.0	
MB 860-93871/3	Method Blank	Total/NA	Water	300.0	
MB 860-93871/39	Method Blank	Total/NA	Water	300.0	
LCS 860-93871/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-93871/40	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-93871/41	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-93871/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-93871/7	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 92735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-1	MWD-12-W-230302	Dissolved	Water	3010A	
880-25396-2	MWD-4-W-230302	Dissolved	Water	3010A	
880-25396-3	MWD-13-W-230302	Dissolved	Water	3010A	
880-25396-4	RW-6-W-230302	Dissolved	Water	3010A	
880-25396-5	RW-7-W-230302	Dissolved	Water	3010A	
880-25396-6	MWD-17-W-230302	Dissolved	Water	3010A	
880-25396-7	MW-22-W-230302	Dissolved	Water	3010A	
880-25396-8	MWD-3-W-230302	Dissolved	Water	3010A	
880-25396-9	MWD-7-W-230302	Dissolved	Water	3010A	
MB 860-92735/1-A	Method Blank	Total/NA	Water	3010A	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Metals (Continued)

Prep Batch: 92735 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-92735/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-92735/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Prep Batch: 92759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-10	MW-17-W-230302	Dissolved	Water	3010A	
880-25396-11	MWD-1-W-230302	Dissolved	Water	3010A	
880-25396-12	MWD-8-W-230302	Dissolved	Water	3010A	
880-25396-13	MWD-2-W-230302	Dissolved	Water	3010A	
880-25396-14	MWD-4-W-230302	Dissolved	Water	3010A	
MB 860-92759/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-92759/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-92759/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
880-25396-10 MS	MW-17-W-230302	Dissolved	Water	3010A	
880-25396-10 MSD	MW-17-W-230302	Dissolved	Water	3010A	

Analysis Batch: 93018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-2	MWD-4-W-230302	Dissolved	Water	6020A	92735
880-25396-10	MW-17-W-230302	Dissolved	Water	6020A	92759
880-25396-11	MWD-1-W-230302	Dissolved	Water	6020A	92759
880-25396-12	MWD-8-W-230302	Dissolved	Water	6020A	92759
880-25396-13	MWD-2-W-230302	Dissolved	Water	6020A	92759
880-25396-14	MWD-4-W-230302	Dissolved	Water	6020A	92759
MB 860-92735/1-A	Method Blank	Total/NA	Water	6020A	92735
MB 860-92759/1-A	Method Blank	Total/NA	Water	6020A	92759
LCS 860-92735/2-A	Lab Control Sample	Total/NA	Water	6020A	92735
LCS 860-92759/2-A	Lab Control Sample	Total/NA	Water	6020A	92759
LCSD 860-92735/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	92735
LCSD 860-92759/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	92759
880-25396-10 MS	MW-17-W-230302	Dissolved	Water	6020A	92759
880-25396-10 MSD	MW-17-W-230302	Dissolved	Water	6020A	92759

Analysis Batch: 93197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-1	MWD-12-W-230302	Dissolved	Water	6020A	92735
880-25396-3	MWD-13-W-230302	Dissolved	Water	6020A	92735
880-25396-4	RW-6-W-230302	Dissolved	Water	6020A	92735
880-25396-5	RW-7-W-230302	Dissolved	Water	6020A	92735
880-25396-6	MWD-17-W-230302	Dissolved	Water	6020A	92735
880-25396-7	MW-22-W-230302	Dissolved	Water	6020A	92735
880-25396-8	MWD-3-W-230302	Dissolved	Water	6020A	92735
880-25396-9	MWD-7-W-230302	Dissolved	Water	6020A	92735

Analysis Batch: 93217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-1	MWD-12-W-230302	Dissolved	Water	6020A	92735
880-25396-3	MWD-13-W-230302	Dissolved	Water	6020A	92735
880-25396-4	RW-6-W-230302	Dissolved	Water	6020A	92735
880-25396-5	RW-7-W-230302	Dissolved	Water	6020A	92735
880-25396-6	MWD-17-W-230302	Dissolved	Water	6020A	92735

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Metals (Continued)

Analysis Batch: 93217 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-7	MW-22-W-230302	Dissolved	Water	6020A	92735
880-25396-8	MWD-3-W-230302	Dissolved	Water	6020A	92735
880-25396-9	MWD-7-W-230302	Dissolved	Water	6020A	92735

General Chemistry

Analysis Batch: 48131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-1	MWD-12-W-230302	Dissolved	Water	7196A	
880-25396-2	MWD-4-W-230302	Dissolved	Water	7196A	
880-25396-3	MWD-13-W-230302	Dissolved	Water	7196A	
880-25396-4	RW-6-W-230302	Dissolved	Water	7196A	
880-25396-5	RW-7-W-230302	Dissolved	Water	7196A	
880-25396-6	MWD-17-W-230302	Dissolved	Water	7196A	
880-25396-7	MW-22-W-230302	Dissolved	Water	7196A	
880-25396-8	MWD-3-W-230302	Dissolved	Water	7196A	
880-25396-9	MWD-7-W-230302	Dissolved	Water	7196A	
880-25396-10	MW-17-W-230302	Dissolved	Water	7196A	
MB 880-48131/3	Method Blank	Total/NA	Water	7196A	
LCS 880-48131/4	Lab Control Sample	Total/NA	Water	7196A	
LCSD 880-48131/5	Lab Control Sample Dup	Total/NA	Water	7196A	
880-25396-1 MS	MWD-12-W-230302	Dissolved	Water	7196A	
880-25396-1 MSD	MWD-12-W-230302	Dissolved	Water	7196A	

Analysis Batch: 48135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-11	MWD-1-W-230302	Dissolved	Water	7196A	
880-25396-12	MWD-8-W-230302	Dissolved	Water	7196A	
880-25396-13	MWD-2-W-230302	Dissolved	Water	7196A	
880-25396-14	MWD-4-W-230302	Dissolved	Water	7196A	
MB 880-48135/3	Method Blank	Total/NA	Water	7196A	
LCS 880-48135/4	Lab Control Sample	Total/NA	Water	7196A	
LCSD 880-48135/5	Lab Control Sample Dup	Total/NA	Water	7196A	
880-25396-11 MS	MWD-1-W-230302	Dissolved	Water	7196A	
880-25396-11 MSD	MWD-1-W-230302	Dissolved	Water	7196A	

Analysis Batch: 93089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-1	MWD-12-W-230302	Total/NA	Water	SM 2540C	
880-25396-2	MWD-4-W-230302	Total/NA	Water	SM 2540C	
880-25396-3	MWD-13-W-230302	Total/NA	Water	SM 2540C	
880-25396-4	RW-6-W-230302	Total/NA	Water	SM 2540C	
880-25396-5	RW-7-W-230302	Total/NA	Water	SM 2540C	
880-25396-6	MWD-17-W-230302	Total/NA	Water	SM 2540C	
880-25396-7	MW-22-W-230302	Total/NA	Water	SM 2540C	
880-25396-8	MWD-3-W-230302	Total/NA	Water	SM 2540C	
880-25396-9	MWD-7-W-230302	Total/NA	Water	SM 2540C	
880-25396-10	MW-17-W-230302	Total/NA	Water	SM 2540C	
880-25396-11	MWD-1-W-230302	Total/NA	Water	SM 2540C	
880-25396-12	MWD-8-W-230302	Total/NA	Water	SM 2540C	
880-25396-13	MWD-2-W-230302	Total/NA	Water	SM 2540C	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

General Chemistry (Continued)

Analysis Batch: 93089 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25396-14	MWD-4-W-230302	Total/NA	Water	SM 2540C	
MB 860-93089/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-93089/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-93089/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-93089/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-12-W-230302 Lab Sample ID: 880-25396-1

Date Collected: 03/02/23 07:51 **Matrix: Water**
Date Received: 03/02/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47689	03/03/23 17:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47945	03/06/23 14:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:12	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			33.5 mL	3 mL	92862	03/07/23 15:08	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93075	03/07/23 21:18	T1S	EET HOU
Total/NA	Analysis	300.0	DL	10			93441	03/09/23 22:55	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92735	03/06/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		10			93217	03/08/23 17:25	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92735	03/06/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		5			93197	03/07/23 18:22	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48131	03/03/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	93089	03/07/23 20:00	HN	EET HOU

Client Sample ID: MWD-4-W-230302 Lab Sample ID: 880-25396-2

Date Collected: 03/02/23 08:11 **Matrix: Water**
Date Received: 03/02/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47689	03/03/23 17:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47945	03/06/23 14:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:12	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.5 mL	3 mL	92862	03/07/23 15:08	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93075	03/07/23 21:38	T1S	EET HOU
Total/NA	Analysis	300.0		1			93441	03/09/23 22:32	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92735	03/06/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93018	03/06/23 19:11	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48131	03/03/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	93089	03/07/23 20:00	HN	EET HOU

Client Sample ID: MWD-13-W-230302 Lab Sample ID: 880-25396-3

Date Collected: 03/02/23 08:27 **Matrix: Water**
Date Received: 03/02/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47689	03/03/23 18:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47945	03/06/23 14:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:12	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			34.5 mL	3 mL	92862	03/07/23 15:08	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93075	03/08/23 02:31	T1S	EET HOU
Total/NA	Analysis	300.0	DL	100			93871	03/13/23 17:58	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92735	03/06/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		10			93217	03/08/23 17:27	DP	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-13-W-230302 Lab Sample ID: 880-25396-3

Date Collected: 03/02/23 08:27 **Matrix: Water**
Date Received: 03/02/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3010A			50 mL	50 mL	92735	03/06/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		5			93197	03/07/23 18:25	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48131	03/03/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	93089	03/07/23 20:00	HN	EET HOU

Client Sample ID: RW-6-W-230302 Lab Sample ID: 880-25396-4

Date Collected: 03/02/23 08:48 **Matrix: Water**
Date Received: 03/02/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	5 mL	5 mL	48623	03/15/23 08:40	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47945	03/15/23 12:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:12	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			33.7 mL	3 mL	92862	03/07/23 15:08	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93075	03/07/23 21:57	T1S	EET HOU
Total/NA	Analysis	300.0	DL	10			93441	03/09/23 23:19	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92735	03/06/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		20			93217	03/08/23 17:37	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92735	03/06/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		5			93197	03/07/23 18:27	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48131	03/03/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	93089	03/07/23 20:00	HN	EET HOU

Client Sample ID: RW-7-W-230302 Lab Sample ID: 880-25396-5

Date Collected: 03/02/23 09:04 **Matrix: Water**
Date Received: 03/02/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47689	03/03/23 19:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47945	03/06/23 14:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:12	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			33 mL	3 mL	92862	03/07/23 15:08	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93164	03/08/23 12:49	SAR	EET HOU
Total/NA	Analysis	300.0		10			93441	03/09/23 23:43	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92735	03/06/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		10			93217	03/08/23 17:39	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92735	03/06/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		5			93197	03/07/23 18:30	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48131	03/03/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	93089	03/07/23 20:00	HN	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-17-W-230302 Lab Sample ID: 880-25396-6

Date Collected: 03/02/23 09:20 **Matrix: Water**
Date Received: 03/02/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	5 mL	5 mL	48623	03/15/23 09:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47945	03/15/23 12:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.6 mL	3 mL	92862	03/07/23 15:08	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93075	03/07/23 22:37	T1S	EET HOU
Total/NA	Analysis	300.0	DL	100			93871	03/13/23 18:10	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92735	03/06/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		10			93217	03/08/23 17:42	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92735	03/06/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		5			93197	03/07/23 18:32	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48131	03/03/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	93089	03/07/23 20:00	HN	EET HOU

Client Sample ID: MW-22-W-230302 Lab Sample ID: 880-25396-7

Date Collected: 03/02/23 09:32 **Matrix: Water**
Date Received: 03/02/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	5 mL	5 mL	48623	03/15/23 09:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47945	03/15/23 12:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			29.9 mL	3 mL	92862	03/07/23 15:08	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93075	03/07/23 22:57	T1S	EET HOU
Total/NA	Analysis	300.0	DL	100			93644	03/11/23 03:25	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92735	03/06/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		10			93217	03/08/23 17:44	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92735	03/06/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		5			93197	03/07/23 18:35	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48131	03/03/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	93089	03/07/23 20:00	HN	EET HOU

Client Sample ID: MWD-3-W-230302 Lab Sample ID: 880-25396-8

Date Collected: 03/02/23 09:44 **Matrix: Water**
Date Received: 03/02/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 07:33	AJ	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	48623	03/15/23 16:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47945	03/15/23 12:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.5 mL	3 mL	92862	03/07/23 15:08	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93075	03/07/23 23:16	T1S	EET HOU
Total/NA	Analysis	300.0		100			93441	03/10/23 00:43	A1S	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-3-W-230302 Lab Sample ID: 880-25396-8

Date Collected: 03/02/23 09:44 **Matrix: Water**
Date Received: 03/02/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3010A			50 mL	50 mL	92735	03/06/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		50			93217	03/08/23 17:46	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92735	03/06/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		5			93197	03/07/23 18:37	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48131	03/03/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	5 mL	200 mL	93089	03/07/23 20:00	HN	EET HOU

Client Sample ID: MWD-7-W-230302 Lab Sample ID: 880-25396-9

Date Collected: 03/02/23 09:59 **Matrix: Water**
Date Received: 03/02/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47689	03/03/23 19:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47945	03/06/23 14:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.2 mL	3 mL	93479	03/09/23 16:01	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 16:29	SAR	EET HOU
Total/NA	Analysis	300.0	DL	100			93871	03/13/23 19:12	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92735	03/06/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		5			93217	03/08/23 17:06	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92735	03/06/23 08:30	MD	EET HOU
Dissolved	Analysis	6020A		5			93197	03/07/23 18:39	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48131	03/03/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	93089	03/07/23 20:00	HN	EET HOU

Client Sample ID: MW-17-W-230302 Lab Sample ID: 880-25396-10

Date Collected: 03/02/23 10:14 **Matrix: Water**
Date Received: 03/02/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47689	03/03/23 19:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47945	03/06/23 14:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.8 mL	3 mL	93478	03/09/23 15:58	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 17:09	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			93441	03/10/23 04:05	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92759	03/06/23 09:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93018	03/06/23 17:05	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48131	03/03/23 07:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	93089	03/07/23 20:00	HN	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-1-W-230302 Lab Sample ID: 880-25396-11

Date Collected: 03/02/23 10:28 **Matrix: Water**
Date Received: 03/02/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47689	03/03/23 20:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47945	03/06/23 14:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.2 mL	3 mL	93479	03/09/23 16:01	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 17:29	SAR	EET HOU
Total/NA	Analysis	300.0		1			93441	03/10/23 04:17	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92759	03/06/23 09:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93018	03/06/23 17:24	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48135	03/03/23 08:15	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	93089	03/07/23 20:00	HN	EET HOU

Client Sample ID: MWD-8-W-230302 Lab Sample ID: 880-25396-12

Date Collected: 03/02/23 10:48 **Matrix: Water**
Date Received: 03/02/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47689	03/03/23 20:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47945	03/06/23 14:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			33.2 mL	3 mL	93479	03/09/23 16:01	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 17:49	SAR	EET HOU
Total/NA	Analysis	300.0		1			93441	03/10/23 04:41	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92759	03/06/23 09:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93018	03/06/23 17:26	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48135	03/03/23 08:15	CH	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	93089	03/07/23 20:00	HN	EET HOU

Client Sample ID: MWD-2-W-230302 Lab Sample ID: 880-25396-13

Date Collected: 03/02/23 12:24 **Matrix: Water**
Date Received: 03/02/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 11:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47945	03/15/23 16:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.9 mL	3 mL	93479	03/09/23 16:01	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 18:09	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			93441	03/10/23 05:16	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92759	03/06/23 09:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93018	03/06/23 17:29	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48135	03/03/23 08:15	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	93089	03/07/23 20:00	HN	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-4-W-230302
Lab Sample ID: 880-25396-14

Date Collected: 03/02/23 12:43
Matrix: Water

Date Received: 03/02/23 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 12:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47945	03/15/23 16:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			33.4 mL	3 mL	93479	03/09/23 16:01	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93570	03/10/23 18:29	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			93441	03/10/23 06:04	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92759	03/06/23 09:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93018	03/06/23 17:31	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48135	03/03/23 08:15	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	93089	03/07/23 20:00	HN	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	03-13-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	OII Range Organics (Over C28-C36)

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25396-1
Project/Site: Eunice Project - South Eunice

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
6020A	Metals (ICP/MS)	SW846	EET HOU
7196A	Chromium, Hexavalent	SW846	EET MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU
5030B	Purge and Trap	SW846	EET MID
8015NM Aq Prep	Microextraction	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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 HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25396-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25396-1	MWD-12-W-230302	Water	03/02/23 07:51	03/02/23 16:12
880-25396-2	MWD-4-W-230302	Water	03/02/23 08:11	03/02/23 16:12
880-25396-3	MWD-13-W-230302	Water	03/02/23 08:27	03/02/23 16:12
880-25396-4	RW-6-W-230302	Water	03/02/23 08:48	03/02/23 16:12
880-25396-5	RW-7-W-230302	Water	03/02/23 09:04	03/02/23 16:12
880-25396-6	MWD-17-W-230302	Water	03/02/23 09:20	03/02/23 16:12
880-25396-7	MW-22-W-230302	Water	03/02/23 09:32	03/02/23 16:12
880-25396-8	MWD-3-W-230302	Water	03/02/23 09:44	03/02/23 16:12
880-25396-9	MWD-7-W-230302	Water	03/02/23 09:59	03/02/23 16:12
880-25396-10	MW-17-W-230302	Water	03/02/23 10:14	03/02/23 16:12
880-25396-11	MWD-1-W-230302	Water	03/02/23 10:28	03/02/23 16:12
880-25396-12	MWD-8-W-230302	Water	03/02/23 10:48	03/02/23 16:12
880-25396-13	MWD-2-W-230302	Water	03/02/23 12:24	03/02/23 16:12
880-25396-14	MWD-4-W-230302	Water	03/02/23 12:43	03/02/23 16:12

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Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Work Order No: 25396

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Project Manager:	Rebecca Andresen	Bill to: (if different)	
Company Name:	ARCADIS	Company Name:	
Address:	1004 N. Big Spring St	Address:	
City, State ZIP	Midland, TX 79701	City, State ZIP:	
Phone:	303-471-3477 Email:	andrew demarco@arcadis com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: New Mexico
Reporting Level II ☐ Level III ☒ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☒ ADaPT ☐ Other:

Project Name:	Eunice Project- S. Eunice	Turn Around	
Project Number:	30049612	Routine	☒
P.O. Number:		Rush	
Sampler's Name:	Jerry Longwell/Daniel McGee	Due Date	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C)	23/20	Thermometer ID	IR8	
Received Intact:	(Yes) No			
Cooler Custody Seals.	Yes No (N/A)	Correction Factor	0.3	
Sample Custody Seals.	Yes No (N/A)	Total Containers.		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (SW8015B)	Hex Chrome (SW7196A)	Dissolved Metals (SW6020_DIS): Chromium, Arsenic & Barium)	TDS (SM2540C)	Chlorides (EPA 300.0)
MWD-12-W-230302	W	03/02/23	0751		8	X	X	X	X	X	X
MWD-4-W-230302	W	03/02/23	0811		8	X	X	X	X	X	X
MWD-15-W-230302	W	03/02/23	0827		8	X	X	X	X	X	X
RW-4-W-230302	W	03/02/23	0848		8	X	X	X	X	X	X
RW-7-W-230302	W	03/02/23	0904		8	X	X	X	X	X	X
MWD-17-W-230302	W	03/02/23	0920		8	X	X	X	X	X	X
MW-22-W-230302	W	03/02/23	0932		8	X	X	X	X	X	X
MWD-3-W-230302	W	03/02/23	0944		8	X	X	X	X	X	X
MWD-7-W-230302	W	03/02/23	0957		8	X	X	X	X	X	X
MW-17-W-230302	W	03/02/23	1019		8	X	X	X	X	X	X

ANALYSIS REQUEST

Work Order Notes

880-25396 Chain of Custody

TAT starts the day recevied by the lab if received by 4 30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		03/02/23 1612	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

Received by OCD: 3/13/2024 8:36:42 PM

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Released to Imaging: 4/30/2024 10:08:36 AM

3/15/2023

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Chain of Custody

XENCO LABORATORIES

Houston TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager	Rebecca Andresen	Bill to: (if different)	
Company Name	ARCADIS	Company Name	
Address	1004 N. Big Spring St.	Address	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	303-471-3477	Email:	andrew.demarco@arcadis.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: New Mexico
Reporting Level II [X] Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD [X] ADaPT ☐ Other

Project Name	Eunice Project- S Eunice	Turn Around	
Project Number	30049612	Routine	☑
P.O. Number		Rush	
Sampler's Name	Jerry Longwell/Daniel McGee	Due Date	

SAMPLE RECEIPT				
Temp Blank.	Yes No	Wet Ice:	Yes No	
Temperature (°C)		Thermometer ID		
Received Intact:	Yes No			
Cooler Custody Seals.	Yes No N/A	Correction Factor		
Sample Custody Seals.	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (SW8015B)	Hex Chrome (SW7196A)	Dissolved Metals (SW6020_DIS) Chromium, Arsenic & Barium)	TDS (SM2540C)	Chlorides (EPA 300.0)
MWD-1-W-230302	W	03/02/23	1029		8	X	X	X	X	X	X
MWD-8-W-230302	W	03/02/23	1048		8	X	X	X	X	X	X
MWD-7-W-230302	W	03/02/23	1224		8	X	X	X	X	X	X
MW-4-W-230302	W	03/02/23	1243		8	X	X	X	X	X	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4 30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		03/02/23	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

Received by OCD: 3/13/2024 8:36:42 PM

3/15/2023

Released to Imaging: 4/30/2024 10:08:36 AM

Released to Imaging: 4/30/2024 10:08:36 AM
Received by OCD: 3/13/2024 8:36:42 PM

Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Builes John	Carrier Tracking No(s):	COC No: 880-6435.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 880-25396-1
Address: 4145 Greenbriar Dr	Due Date Requested: 3/8/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Eunice Project South Eunice	Project #: 88000209			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/FIELD_FLTRD (MOD) Custom List	300_ORGFM_28D/ Chloride	2540C_Calcd	8015MOD_NM/8015NM_Aq_Prep Full TPH	8015MOD_Calc	Total Number of Containers	Special Instructions/Note:
			Preservation Code:										
MWD-12-W-230302 (880-25396-1)	3/2/23	07:51 Mountain		Water			X	X	X	X	X	4	
MWD-4-W-230302 (880-25396-2)	3/2/23	08:11 Mountain		Water			X	X	X	X	X	4	
MWD-13-W-230302 (880-25396-3)	3/2/23	08:27 Mountain		Water			X	X	X	X	X	4	
RW-6-W-230302 (880-25396-4)	3/2/23	08:48 Mountain		Water			X	X	X	X	X	4	
RW-7-W-230302 (880-25396-5)	3/2/23	09:04 Mountain		Water			X	X	X	X	X	4	
MWD-17-W-230302 (880-25396-6)	3/2/23	09:20 Mountain		Water			X	X	X	X	X	4	
MW-22-W-230302 (880-25396-7)	3/2/23	09:32 Mountain		Water			X	X	X	X	X	4	
MWD-3-W-230302 (880-25396-8)	3/2/23	09:44 Mountain		Water			X	X	X	X	X	4	
MWD-7-W-230302 (880-25396-9)	3/2/23	09:59 Mountain		Water			X	X	X	X	X	4	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. *This sample shipment is forwarded under chain-of-custody.* If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by: FedEX	Date/Time:	Company	Received by: FedEX	Date/Time: 3/4/2023 9:12	Company EX
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact. | Custody Seal No

Cooler Temperature(s) °C and Other Remarks:

Temp. IR ID:HOU-344
C/F:-0.2 2 2
Corrected Temp: 2 1.8

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 880-25396-1

Login Number: 25396 **List Source: Eurofins Midland**
List Number: 1
Creator: Kramer, Jessica

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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 880-25396-1

Login Number: 25396 **List Source: Eurofins Houston**
List Number: 2 **List Creation: 03/04/23 10:55 AM**
Creator: Pena, Jesiel

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Andrew DeMarco
ARCADIS U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 3/22/2023 4:13:15 PM

JOB DESCRIPTION

Eunice Project - South Eunice

JOB NUMBER

880-25433-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 4/30/2024 10:08:36 AM

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
3/22/2023 4:13:15 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Laboratory Job ID: 880-25433-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Job ID: 880-25433-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-25433-1

Receipt
The samples were received on 3/3/2023 2:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.9°C

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-48575 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: MWD-15-W-230303 (880-25433-2), MWD-14-W-230303 (880-25433-3), MW-25-W-230303 (880-25433-7), TMW-6-W-230303 (880-25433-8), MW-24-W-230303 (880-25433-9), MW-11-W-230303 (880-25433-10), MW-26-W-230303 (880-25433-11) and (MB 880-48575/70). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-48575/39). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-48641/8). Evidence of matrix interferences is not obvious.

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

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

HPLC/IC
Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: RW-8-W-230303 (880-25433-1), MWD-15-W-230303 (880-25433-2), MWD-14-W-230303 (880-25433-3) and MW-25-W-230303 (880-25433-7). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-93644 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

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

Metals
Method 6020A: The following samples were diluted due to the nature of the sample matrix: RW-8-W-230303 (880-25433-1), MWD-15-W-230303 (880-25433-2), MWD-14-W-230303 (880-25433-3), MW-3-W-230303 (880-25433-4), MWD-11-W-230303 (880-25433-5), MW-11-W-230303 (880-25433-10) and MW-26-W-230303 (880-25433-11). Elevated reporting limits (RLs) are provided.

Method 6020A: The following sample was diluted due to the nature of the sample matrix: MW-25-W-230303 (880-25433-7). Elevated reporting limits (RLs) are provided.

Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: TMW-6-W-230303 (880-25433-8) and MW-24-W-230303 (880-25433-9). Elevated reporting limits (RLs) are provided.

Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: RW-8-W-230303 (880-25433-1), MWD-15-W-230303 (880-25433-2), MWD-14-W-230303 (880-25433-3), MW-3-W-230303 (880-25433-4),

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Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Job ID: 880-25433-1 (Continued)

Laboratory: Eurofins Midland (Continued)

MWD-11-W-230303 (880-25433-5) and TMW-1-W-230303 (880-25433-6). Elevated reporting limits (RLs) are provided.

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

General Chemistry

Method 7196A: Sample had reading, but did not change color. Yellow color indicating an iron interferent. Samples reported as 0.880-25433-A-1: .0073 mg/L880-25433-A-2: .0187 mg/L880-25433-A-3: .0054 mg/L880-25433-A-8: .0111 mg/L880-25433-A-9: .0168 mg/L880-25433-A-10: .0044 mg/LRW-8-W-230303 (880-25433-1), MWD-15-W-230303 (880-25433-2), MWD-14-W-230303 (880-25433-3), TMW-6-W-230303 (880-25433-8), MW-24-W-230303 (880-25433-9) and MW-11-W-230303 (880-25433-10)

Method 7196A: Sample had reading, but did not change color. Yellow color or turbidity indicating an iron interferent. Samples reported as 0.880-25433-A-11: .0209 mg/L880-25459-A-3: .0449 mg/LMW-26-W-230303 (880-25433-11)

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

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: RW-8-W-230303
Lab Sample ID: 880-25433-1
Date Collected: 03/03/23 07:44
Matrix: Water
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 20:56	1
Toluene	<0.000367	U *-	0.00200	0.000367	mg/L			03/15/23 20:56	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 20:56	1
m-Xylene & p-Xylene	**0.00159**	**J**	0.00400	0.000629	mg/L			03/15/23 20:56	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 20:56	1
Xylenes, Total	**0.00159**	**J**	0.00400	0.000642	mg/L			03/15/23 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*03/15/23 20:56*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*		*03/15/23 20:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00159**	**J**	0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.995	U	5.03	0.995	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.995	U	5.03	0.995	mg/L		03/09/23 16:01	03/10/23 18:29	1
Diesel Range Organics (Over C10-C28)	<0.995	U	5.03	0.995	mg/L		03/09/23 16:01	03/10/23 18:29	1
OII Range Organics (Over C28-C36)	<0.960	U	5.03	0.960	mg/L		03/09/23 16:01	03/10/23 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 135*	*03/09/23 16:01*	*03/10/23 18:29*	*1*
o-Terphenyl	*117*		*70 - 135*	*03/09/23 16:01*	*03/10/23 18:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		5.00	2.00	mg/L			03/11/23 08:21	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.152**		0.0200	0.00145	mg/L		03/06/23 10:30	03/07/23 18:54	5
Barium	**0.184**		0.0400	0.0134	mg/L		03/06/23 10:30	03/08/23 17:08	10
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 10:30	03/07/23 18:54	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3440**		40.0	40.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.00733**	**J**	0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-15-W-230303
Lab Sample ID: 880-25433-2
Date Collected: 03/03/23 08:01
Matrix: Water
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00332		0.00200	0.000408	mg/L			03/15/23 21:22	1
Toluene	0.000483	J *-	0.00200	0.000367	mg/L			03/15/23 21:22	1
Ethylbenzene	0.0111		0.00200	0.000657	mg/L			03/15/23 21:22	1
m-Xylene & p-Xylene	0.0245		0.00400	0.000629	mg/L			03/15/23 21:22	1
o-Xylene	0.0158		0.00200	0.000642	mg/L			03/15/23 21:22	1
Xylenes, Total	0.0403		0.00400	0.000642	mg/L			03/15/23 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*179*	*S1+*	*70 - 130*		*03/15/23 21:22*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*		*03/15/23 21:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0552		0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.29	J	4.56	0.901	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.29	J	4.56	0.901	mg/L		03/09/23 16:01	03/10/23 18:48	1
Diesel Range Organics (Over C10-C28)	<0.901	U	4.56	0.901	mg/L		03/09/23 16:01	03/10/23 18:48	1
OII Range Organics (Over C28-C36)	<0.869	U	4.56	0.869	mg/L		03/09/23 16:01	03/10/23 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 135*	*03/09/23 16:01*	*03/10/23 18:48*	*1*
o-Terphenyl	*118*		*70 - 135*	*03/09/23 16:01*	*03/10/23 18:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250		5.00	2.00	mg/L			03/11/23 08:46	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00933	J	0.0200	0.00145	mg/L		03/06/23 10:30	03/07/23 18:56	5
Barium	2.83		0.200	0.0671	mg/L		03/06/23 10:30	03/08/23 17:11	50
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 10:30	03/07/23 18:56	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	2830		40.0	40.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	0.0187		0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-14-W-230303 **Lab Sample ID: 880-25433-3**
Date Collected: 03/03/23 08:16 **Matrix: Water**
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.547**		0.0400	0.00816	mg/L			03/16/23 14:22	20
Toluene	<0.000367	U *-	0.00200	0.000367	mg/L			03/15/23 21:48	1
Ethylbenzene	**0.0362**		0.00200	0.000657	mg/L			03/15/23 21:48	1
m-Xylene & p-Xylene	**0.00298**	**J**	0.00400	0.000629	mg/L			03/15/23 21:48	1
o-Xylene	**0.00149**	**J**	0.00200	0.000642	mg/L			03/15/23 21:48	1
Xylenes, Total	**0.00447**		0.00400	0.000642	mg/L			03/15/23 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*		*03/15/23 21:48*	*1*
1,4-Difluorobenzene (Surr)	*156*	*S1+*	*70 - 130*		*03/15/23 21:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.588**		0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1.34**	**J**	4.84	0.956	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.34**	**J**	4.84	0.956	mg/L		03/09/23 16:01	03/10/23 19:08	1
Diesel Range Organics (Over C10-C28)	<0.956	U	4.84	0.956	mg/L		03/09/23 16:01	03/10/23 19:08	1
OII Range Organics (Over C28-C36)	<0.923	U	4.84	0.923	mg/L		03/09/23 16:01	03/10/23 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 135*	*03/09/23 16:01*	*03/10/23 19:08*	*1*
o-Terphenyl	*95*		*70 - 135*	*03/09/23 16:01*	*03/10/23 19:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**761**		5.00	2.00	mg/L			03/11/23 09:11	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00145	U	0.0200	0.00145	mg/L		03/06/23 10:30	03/07/23 19:01	5
Barium	**1.25**		0.0400	0.0134	mg/L		03/06/23 10:30	03/08/23 17:13	10
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 10:30	03/07/23 19:01	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3640**		40.0	40.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.00543**	**J**	0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-3-W-230303 Lab Sample ID: 880-25433-4

Date Collected: 03/03/23 08:33 **Matrix: Water**
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00201**		0.00200	0.000408	mg/L			03/15/23 22:15	1
Toluene	<0.000367	U *-	0.00200	0.000367	mg/L			03/15/23 22:15	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 22:15	1
m-Xylene & p-Xylene	**0.00165**	**J**	0.00400	0.000629	mg/L			03/15/23 22:15	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 22:15	1
Xylenes, Total	**0.00165**	**J**	0.00400	0.000642	mg/L			03/15/23 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/15/23 22:15*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*		*03/15/23 22:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00366**	**J**	0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.985	U	4.98	0.985	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.985	U	4.98	0.985	mg/L		03/09/23 16:01	03/10/23 19:28	1
Diesel Range Organics (Over C10-C28)	<0.985	U	4.98	0.985	mg/L		03/09/23 16:01	03/10/23 19:28	1
OII Range Organics (Over C28-C36)	<0.950	U	4.98	0.950	mg/L		03/09/23 16:01	03/10/23 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 135*	*03/09/23 16:01*	*03/10/23 19:28*	*1*
o-Terphenyl	*115*		*70 - 135*	*03/09/23 16:01*	*03/10/23 19:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84.9**		0.500	0.200	mg/L			03/11/23 05:41	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0194**		0.00400	0.000290	mg/L		03/06/23 10:30	03/07/23 19:04	1
Barium	**0.0640**		0.0200	0.00671	mg/L		03/06/23 10:30	03/08/23 17:15	5
Chromium	**0.00102**	**J**	0.00400	0.000560	mg/L		03/06/23 10:30	03/06/23 20:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**721**		10.0	10.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-11-W-230303 **Lab Sample ID: 880-25433-5**
Date Collected: 03/03/23 08:47 **Matrix: Water**
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 22:41	1
Toluene	<0.000367	U *-	0.00200	0.000367	mg/L			03/15/23 22:41	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 22:41	1
m-Xylene & p-Xylene	**0.00160**	**J**	0.00400	0.000629	mg/L			03/15/23 22:41	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 22:41	1
Xylenes, Total	**0.00160**	**J**	0.00400	0.000642	mg/L			03/15/23 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*		*03/15/23 22:41*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*		*03/15/23 22:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00160**	**J**	0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.906	U	4.59	0.906	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.906	U	4.59	0.906	mg/L		03/09/23 16:01	03/10/23 19:48	1
Diesel Range Organics (Over C10-C28)	<0.906	U	4.59	0.906	mg/L		03/09/23 16:01	03/10/23 19:48	1
OII Range Organics (Over C28-C36)	<0.875	U	4.59	0.875	mg/L		03/09/23 16:01	03/10/23 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 135*	*03/09/23 16:01*	*03/10/23 19:48*	*1*
o-Terphenyl	*125*		*70 - 135*	*03/09/23 16:01*	*03/10/23 19:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.4**		0.500	0.200	mg/L			03/11/23 06:18	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0198**		0.00400	0.000290	mg/L		03/06/23 10:30	03/07/23 19:06	1
Barium	**0.0416**		0.0200	0.00671	mg/L		03/06/23 10:30	03/08/23 17:18	5
Chromium	**0.00119**	**J**	0.00400	0.000560	mg/L		03/06/23 10:30	03/07/23 19:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**713**		10.0	10.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: TMW-1-W-230303

Lab Sample ID: 880-25433-6

Date Collected: 03/03/23 08:58

Matrix: Water

Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 23:08	1
Toluene	<0.000367	U *-	0.00200	0.000367	mg/L			03/15/23 23:08	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 23:08	1
m-Xylene & p-Xylene	**0.00163**	**J**	0.00400	0.000629	mg/L			03/15/23 23:08	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 23:08	1
Xylenes, Total	**0.00163**	**J**	0.00400	0.000642	mg/L			03/15/23 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/15/23 23:08*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*		*03/15/23 23:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00163**	**J**	0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.898	U	4.55	0.898	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.898	U	4.55	0.898	mg/L		03/09/23 16:01	03/10/23 20:07	1
Diesel Range Organics (Over C10-C28)	<0.898	U	4.55	0.898	mg/L		03/09/23 16:01	03/10/23 20:07	1
OII Range Organics (Over C28-C36)	<0.867	U	4.55	0.867	mg/L		03/09/23 16:01	03/10/23 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 16:01*	*03/10/23 20:07*	*1*
o-Terphenyl	*106*		*70 - 135*	*03/09/23 16:01*	*03/10/23 20:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**378**		0.500	0.200	mg/L			03/11/23 06:30	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0162**		0.00400	0.000290	mg/L		03/06/23 10:30	03/07/23 20:33	1
Barium	**1.03**		0.0400	0.0134	mg/L		03/06/23 10:30	03/08/23 17:20	10
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 10:30	03/07/23 20:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1150**		20.0	20.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25433-1

Client Sample ID: MW-25-W-230303

Date Collected: 03/03/23 09:19
Date Received: 03/03/23 14:41

Lab Sample ID: 880-25433-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.771**		0.0400	0.00816	mg/L			03/16/23 14:48	20
Toluene	<0.000367	U *-	0.00200	0.000367	mg/L			03/15/23 23:34	1
Ethylbenzene	**0.0130**		0.00200	0.000657	mg/L			03/15/23 23:34	1
m-Xylene & p-Xylene	**0.00158**	**J**	0.00400	0.000629	mg/L			03/15/23 23:34	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 23:34	1
Xylenes, Total	**0.00158**	**J**	0.00400	0.000642	mg/L			03/15/23 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*		*03/15/23 23:34*	*1*
1,4-Difluorobenzene (Surr)	*205*	*S1+*	*70 - 130*		*03/15/23 23:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.786**		0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3.03**	**J**	4.49	0.887	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.99**	**J**	4.49	0.887	mg/L		03/09/23 16:01	03/10/23 20:27	1
Diesel Range Organics (Over C10-C28)	**1.04**	**J**	4.49	0.887	mg/L		03/09/23 16:01	03/10/23 20:27	1
OII Range Organics (Over C28-C36)	<0.856	U	4.49	0.856	mg/L		03/09/23 16:01	03/10/23 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 135*	*03/09/23 16:01*	*03/10/23 20:27*	*1*
o-Terphenyl	*104*		*70 - 135*	*03/09/23 16:01*	*03/10/23 20:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2540**		5.00	2.00	mg/L			03/11/23 10:00	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0145**	**J**	0.0200	0.00145	mg/L		03/06/23 10:30	03/07/23 20:36	5
Barium	**1.27**		0.0200	0.00671	mg/L		03/06/23 10:30	03/07/23 20:36	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		03/06/23 10:30	03/07/23 20:36	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**6210**		100	100	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: TMW-6-W-230303

Lab Sample ID: 880-25433-8

Date Collected: 03/03/23 09:33

Matrix: Water

Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0223**		0.00200	0.000408	mg/L			03/16/23 00:00	1
Toluene	<0.000367	U *-	0.00200	0.000367	mg/L			03/16/23 00:00	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/16/23 00:00	1
m-Xylene & p-Xylene	**0.00161**	**J**	0.00400	0.000629	mg/L			03/16/23 00:00	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/16/23 00:00	1
Xylenes, Total	**0.00161**	**J**	0.00400	0.000642	mg/L			03/16/23 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*		*03/16/23 00:00*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*		*03/16/23 00:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0239**		0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4.33**	**J**	4.63	0.915	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2.01**	**J**	4.63	0.915	mg/L		03/09/23 16:01	03/10/23 20:47	1
Diesel Range Organics (Over C10-C28)	**2.32**	**J**	4.63	0.915	mg/L		03/09/23 16:01	03/10/23 20:47	1
OII Range Organics (Over C28-C36)	<0.883	U	4.63	0.883	mg/L		03/09/23 16:01	03/10/23 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 135*	*03/09/23 16:01*	*03/10/23 20:47*	*1*
o-Terphenyl	*107*		*70 - 135*	*03/09/23 16:01*	*03/10/23 20:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.2**		0.500	0.200	mg/L			03/11/23 06:43	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0803**		0.00400	0.000290	mg/L		03/06/23 10:30	03/06/23 20:47	1
Barium	**1.04**		0.0400	0.0134	mg/L		03/06/23 10:30	03/07/23 20:38	10
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 10:30	03/06/23 20:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1150**		10.0	10.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.0111**		0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-24-W-230303 **Lab Sample ID: 880-25433-9**
Date Collected: 03/03/23 09:41 **Matrix: Water**
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	14.7		0.100	0.0204	mg/L			03/16/23 15:14	50
Toluene	0.00457	*-	0.00200	0.000367	mg/L			03/16/23 01:43	1
Ethylbenzene	0.0146		0.00200	0.000657	mg/L			03/16/23 01:43	1
m-Xylene & p-Xylene	0.0295		0.00400	0.000629	mg/L			03/16/23 01:43	1
o-Xylene	0.00181	J	0.00200	0.000642	mg/L			03/16/23 01:43	1
Xylenes, Total	0.0313		0.00400	0.000642	mg/L			03/16/23 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*45*	*S1-*	*70 - 130*		*03/16/23 01:43*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*		*03/16/23 01:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	14.8		0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.1		4.36	0.862	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1		4.36	0.862	mg/L		03/09/23 16:01	03/10/23 21:06	1
Diesel Range Organics (Over C10-C28)	<0.862	U	4.36	0.862	mg/L		03/09/23 16:01	03/10/23 21:06	1
OII Range Organics (Over C28-C36)	<0.832	U	4.36	0.832	mg/L		03/09/23 16:01	03/10/23 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 135*	*03/09/23 16:01*	*03/10/23 21:06*	*1*
o-Terphenyl	*104*		*70 - 135*	*03/09/23 16:01*	*03/10/23 21:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	281		0.500	0.200	mg/L			03/11/23 10:13	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0325		0.00400	0.000290	mg/L		03/06/23 10:30	03/06/23 20:54	1
Barium	3.18		0.0800	0.0268	mg/L		03/06/23 10:30	03/07/23 20:41	20
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 10:30	03/06/23 20:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1290		20.0	20.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	0.0168		0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-11-W-230303 **Lab Sample ID: 880-25433-10**
Date Collected: 03/03/23 09:58 **Matrix: Water**
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.78		0.400	0.0816	mg/L			03/16/23 15:40	200
Toluene	0.00880	*-	0.00200	0.000367	mg/L			03/16/23 02:09	1
Ethylbenzene	0.0114		0.00200	0.000657	mg/L			03/16/23 02:09	1
m-Xylene & p-Xylene	0.0677		0.00400	0.000629	mg/L			03/16/23 02:09	1
o-Xylene	0.0102		0.00200	0.000642	mg/L			03/16/23 02:09	1
Xylenes, Total	0.0779		0.00400	0.000642	mg/L			03/16/23 02:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*170*	*S1+*	*70 - 130*		*03/16/23 02:09*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*		*03/16/23 02:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	5.88		0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	12.1		4.56	0.901	mg/L			03/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	11.1		4.56	0.901	mg/L		03/09/23 16:01	03/10/23 21:26	1
Diesel Range Organics (Over C10-C28)	0.975	J	4.56	0.901	mg/L		03/09/23 16:01	03/10/23 21:26	1
OII Range Organics (Over C28-C36)	<0.869	U	4.56	0.869	mg/L		03/09/23 16:01	03/10/23 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 16:01*	*03/10/23 21:26*	*1*
o-Terphenyl	*105*		*70 - 135*	*03/09/23 16:01*	*03/10/23 21:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	154		0.500	0.200	mg/L			03/11/23 06:55	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0334		0.00400	0.000290	mg/L		03/06/23 10:30	03/06/23 20:56	1
Barium	1.64		0.0800	0.0268	mg/L		03/06/23 10:30	03/22/23 15:44	20
Chromium	0.000602	J	0.00400	0.000560	mg/L		03/06/23 10:30	03/06/23 20:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1020		10.0	10.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	0.00448	J	0.0100	0.00270	mg/L			03/03/23 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-26-W-230303 **Lab Sample ID: 880-25433-11**
Date Collected: 03/03/23 10:10 **Matrix: Water**
Date Received: 03/03/23 14:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0449**	**J**	0.100	0.0204	mg/L			03/16/23 16:06	50
Toluene	<0.000367	U *-	0.00200	0.000367	mg/L			03/16/23 02:35	1
Ethylbenzene	**0.00128**	**J**	0.00200	0.000657	mg/L			03/16/23 02:35	1
m-Xylene & p-Xylene	**0.00195**	**J**	0.00400	0.000629	mg/L			03/16/23 02:35	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/16/23 02:35	1
Xylenes, Total	**0.00195**	**J**	0.00400	0.000642	mg/L			03/16/23 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*		*03/16/23 02:35*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*		*03/16/23 02:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0481**		0.00400	0.000657	mg/L			03/16/23 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**5.55**		4.53	0.895	mg/L			03/13/23 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2.46**	**J**	4.53	0.895	mg/L		03/09/23 16:01	03/10/23 22:05	1
Diesel Range Organics (Over C10-C28)	**3.09**	**J**	4.53	0.895	mg/L		03/09/23 16:01	03/10/23 22:05	1
Oil Range Organics (Over C28-C36)	<0.864	U	4.53	0.864	mg/L		03/09/23 16:01	03/10/23 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 135*	*03/09/23 16:01*	*03/10/23 22:05*	*1*
o-Terphenyl	*105*		*70 - 135*	*03/09/23 16:01*	*03/10/23 22:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**153**		0.500	0.200	mg/L			03/11/23 07:32	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0662**		0.00400	0.000290	mg/L		03/06/23 10:30	03/06/23 20:58	1
Barium	**5.06**		0.200	0.0671	mg/L		03/06/23 10:30	03/22/23 15:47	50
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 10:30	03/06/23 20:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1140**		10.0	10.0	mg/L			03/08/23 20:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.0209**		0.0100	0.00270	mg/L			03/03/23 18:00	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-25433-1	RW-8-W-230303	112	88
880-25433-2	MWD-15-W-230303	179 S1+	90
880-25433-3	MWD-14-W-230303	123	156 S1+
880-25433-4	MW-3-W-230303	101	85
880-25433-5	MWD-11-W-230303	122	93
880-25433-6	TMW-1-W-230303	108	84
880-25433-7	MW-25-W-230303	143 S1+	205 S1+
880-25433-8	TMW-6-W-230303	135 S1+	101
880-25433-9	MW-24-W-230303	45 S1-	87
880-25433-10	MW-11-W-230303	170 S1+	80
880-25433-11	MW-26-W-230303	133 S1+	97
LCS 880-48575/65	Lab Control Sample	112	105
LCS 880-48641/3	Lab Control Sample	102	101
LCSD 880-48575/66	Lab Control Sample Dup	121	86
LCSD 880-48641/4	Lab Control Sample Dup	112	85
MB 880-48575/39	Method Blank	65 S1-	89
MB 880-48575/70	Method Blank	65 S1-	86
MB 880-48641/8	Method Blank	67 S1-	87

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-135)	(70-135)
880-25433-1	RW-8-W-230303	110	117
880-25433-2	MWD-15-W-230303	115	118
880-25433-3	MWD-14-W-230303	90	95
880-25433-4	MW-3-W-230303	109	115
880-25433-5	MWD-11-W-230303	120	125
880-25433-6	TMW-1-W-230303	101	106
880-25433-7	MW-25-W-230303	99	104
880-25433-8	TMW-6-W-230303	102	107
880-25433-9	MW-24-W-230303	100	104
880-25433-10	MW-11-W-230303	101	105
880-25433-11	MW-26-W-230303	101	105
LCS 860-93479/2-A	Lab Control Sample	108	100
LCSD 860-93479/3-A	Lab Control Sample Dup	119	134
MB 860-93479/1-A	Method Blank	93	97

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48575/39 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 48575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 05:03	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 05:03	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 05:03	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 05:03	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 05:03	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 05:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*		*03/15/23 05:03*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*		*03/15/23 05:03*	*1*

Lab Sample ID: MB 880-48575/70 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 48575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 19:37	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 19:37	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 19:37	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 19:37	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 19:37	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 19:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*		*03/15/23 19:37*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*		*03/15/23 19:37*	*1*

Lab Sample ID: LCS 880-48575/65 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 48575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07557		mg/L		76	70 - 130
Toluene	0.100	0.06835	*-	mg/L		68	70 - 130
Ethylbenzene	0.100	0.07543		mg/L		75	70 - 130
m-Xylene & p-Xylene	0.200	0.1592		mg/L		80	70 - 130
o-Xylene	0.100	0.07871		mg/L		79	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-48575/66 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 48575

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07670		mg/L		77	70 - 130	1	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25433-1

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

Lab Sample ID: LCSD 880-48575/66
Matrix: Water
Analysis Batch: 48575

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.07333		mg/L		73	70 - 130	7	20
Ethylbenzene			0.100	0.08013		mg/L		80	70 - 130	6	20
m-Xylene & p-Xylene			0.200	0.1682		mg/L		84	70 - 130	5	20
o-Xylene			0.100	0.08246		mg/L		82	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: MB 880-48641/8
Matrix: Water
Analysis Batch: 48641

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/16/23 11:44	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/16/23 11:44	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/16/23 11:44	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/16/23 11:44	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/16/23 11:44	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/16/23 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*	*S1-*	*70 - 130*		*03/16/23 11:44*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*		*03/16/23 11:44*	*1*

Lab Sample ID: LCS 880-48641/3
Matrix: Water
Analysis Batch: 48641

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.08042		mg/L		80	70 - 130
Toluene			0.100	0.07496		mg/L		75	70 - 130
Ethylbenzene			0.100	0.08080		mg/L		81	70 - 130
m-Xylene & p-Xylene			0.200	0.1696		mg/L		85	70 - 130
o-Xylene			0.100	0.08063		mg/L		81	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-48641/4
Matrix: Water
Analysis Batch: 48641

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09001		mg/L		90	70 - 130	11	20
Toluene			0.100	0.08488		mg/L		85	70 - 130	12	20
Ethylbenzene			0.100	0.09201		mg/L		92	70 - 130	13	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25433-1

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

Lab Sample ID: LCSD 880-48641/4
Matrix: Water
Analysis Batch: 48641

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene			0.200	0.1921		mg/L		96	70 - 130	12	20
o-Xylene			0.100	0.09266		mg/L		93	70 - 130	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-93479/1-A
Matrix: Water
Analysis Batch: 93570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93479

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		03/09/23 16:01	03/10/23 14:49	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		03/09/23 16:01	03/10/23 14:49	1
OII Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		03/09/23 16:01	03/10/23 14:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 135*	*03/09/23 16:01*	*03/10/23 14:49*	*1*
o-Terphenyl	*97*		*70 - 135*	*03/09/23 16:01*	*03/10/23 14:49*	*1*

Lab Sample ID: LCS 860-93479/2-A
Matrix: Water
Analysis Batch: 93570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93479

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			99.8	111.8		mg/L		112	70 - 135
Diesel Range Organics (Over C10-C28)			100	95.13		mg/L		95	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 135*
o-Terphenyl	*100*		*70 - 135*

Lab Sample ID: LCSD 860-93479/3-A
Matrix: Water
Analysis Batch: 93570

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 93479

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			99.8	124.0		mg/L		124	70 - 135	10	35
Diesel Range Organics (Over C10-C28)			100	118.3		mg/L		118	70 - 135	22	35

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25433-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 860-93479/3-A
Matrix: Water
Analysis Batch: 93570

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 93479

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*119*		*70 - 135*
o-Terphenyl	*134*		*70 - 135*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-93644/3
Matrix: Water
Analysis Batch: 93644

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			03/10/23 15:02	1

Lab Sample ID: MB 860-93644/44
Matrix: Water
Analysis Batch: 93644

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			03/11/23 02:35	1

Lab Sample ID: LCS 860-93644/4
Matrix: Water
Analysis Batch: 93644

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.03		mg/L		100	90 - 110

Lab Sample ID: LCS 860-93644/45
Matrix: Water
Analysis Batch: 93644

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.14		mg/L		101	90 - 110

Lab Sample ID: LCSD 860-93644/46
Matrix: Water
Analysis Batch: 93644

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.24		mg/L		102	90 - 110	1	20

Lab Sample ID: LCSD 860-93644/5
Matrix: Water
Analysis Batch: 93644

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.11		mg/L		101	90 - 110	1	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25433-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-93644/7
Matrix: Water
Analysis Batch: 93644

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.5410		mg/L		108	50 - 150		

Lab Sample ID: 880-25433-4 MS
Matrix: Water
Analysis Batch: 93644

Client Sample ID: MW-3-W-230303
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	84.9		10.0	91.66	4	mg/L		68	90 - 110		

Lab Sample ID: 880-25433-4 MSD
Matrix: Water
Analysis Batch: 93644

Client Sample ID: MW-3-W-230303
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	84.9		10.0	91.66	4	mg/L		68	90 - 110	0	20

Lab Sample ID: 880-25433-11 MS
Matrix: Water
Analysis Batch: 93644

Client Sample ID: MW-26-W-230303
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	153		10.0	158.0	4	mg/L		47	90 - 110		

Lab Sample ID: 880-25433-11 MSD
Matrix: Water
Analysis Batch: 93644

Client Sample ID: MW-26-W-230303
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	153		10.0	158.0	4	mg/L		47	90 - 110	0	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-92777/1-A
Matrix: Water
Analysis Batch: 93018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92777

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000290	U	0.00400	0.000290	mg/L		03/06/23 10:30	03/06/23 20:02	1
Barium	<0.00134	U	0.00400	0.00134	mg/L		03/06/23 10:30	03/06/23 20:02	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		03/06/23 10:30	03/06/23 20:02	1

Lab Sample ID: LCS 860-92777/2-A
Matrix: Water
Analysis Batch: 93018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92777

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			0.100	0.1054		mg/L		105	80 - 120		
Barium			0.100	0.1026		mg/L		103	80 - 120		
Chromium			0.100	0.1063		mg/L		106	80 - 120		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25433-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-92777/3-A
Matrix: Water
Analysis Batch: 93018

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92777

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic			0.100	0.1038		mg/L		104	80 - 120	2	20
Barium			0.100	0.1022		mg/L		102	80 - 120	0	20
Chromium			0.100	0.1044		mg/L		104	80 - 120	2	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 880-48305/3
Matrix: Water
Analysis Batch: 48305

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 16:30	1

Lab Sample ID: LCS 880-48305/4
Matrix: Water
Analysis Batch: 48305

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)			0.0400	0.04199		mg/L		105	85 - 115		

Lab Sample ID: LCSD 880-48305/5
Matrix: Water
Analysis Batch: 48305

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)			0.0400	0.04199		mg/L		105	85 - 115	0	20

Lab Sample ID: MB 880-48307/3
Matrix: Water
Analysis Batch: 48307

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.00270	U	0.0100	0.00270	mg/L			03/03/23 18:00	1

Lab Sample ID: LCS 880-48307/4
Matrix: Water
Analysis Batch: 48307

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)			0.0400	0.04057		mg/L		101	85 - 115		

Lab Sample ID: LCSD 880-48307/5
Matrix: Water
Analysis Batch: 48307

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)			0.0400	0.04057		mg/L		101	85 - 115	0	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 880-25433-1 MS **Client Sample ID: RW-8-W-230303**
Matrix: Water **Prep Type: Dissolved**
Analysis Batch: 48305

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	0.00733	J	0.200	0.1977		mg/L		95	85 - 115

Lab Sample ID: 880-25433-1 MSD **Client Sample ID: RW-8-W-230303**
Matrix: Water **Prep Type: Dissolved**
Analysis Batch: 48305

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	0.00733	J	0.200	0.1977		mg/L		95	85 - 115	0	20

Lab Sample ID: 880-25433-11 MS **Client Sample ID: MW-26-W-230303**
Matrix: Water **Prep Type: Dissolved**
Analysis Batch: 48307

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	0.0209		0.200	0.2165		mg/L		98	85 - 115

Lab Sample ID: 880-25433-11 MSD **Client Sample ID: MW-26-W-230303**
Matrix: Water **Prep Type: Dissolved**
Analysis Batch: 48307

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	0.0209		0.200	0.2165		mg/L		98	85 - 115	0	20

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

Lab Sample ID: MB 860-93300/1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93300

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00	mg/L			03/08/23 20:00	1

Lab Sample ID: LCS 860-93300/2 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93300

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	939.0		mg/L		94	80 - 120

Lab Sample ID: LCSD 860-93300/3 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93300

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	934.0		mg/L		93	80 - 120	1	10

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

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

Lab Sample ID: LLCS 860-93300/4 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 93300

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	<5.00	U	mg/L		92	50 - 150		

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

GC VOA

Analysis Batch: 48575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-1	RW-8-W-230303	Total/NA	Water	8021B	
880-25433-2	MWD-15-W-230303	Total/NA	Water	8021B	
880-25433-3	MWD-14-W-230303	Total/NA	Water	8021B	
880-25433-4	MW-3-W-230303	Total/NA	Water	8021B	
880-25433-5	MWD-11-W-230303	Total/NA	Water	8021B	
880-25433-6	TMW-1-W-230303	Total/NA	Water	8021B	
880-25433-7	MW-25-W-230303	Total/NA	Water	8021B	
880-25433-8	TMW-6-W-230303	Total/NA	Water	8021B	
880-25433-9	MW-24-W-230303	Total/NA	Water	8021B	
880-25433-10	MW-11-W-230303	Total/NA	Water	8021B	
880-25433-11	MW-26-W-230303	Total/NA	Water	8021B	
MB 880-48575/39	Method Blank	Total/NA	Water	8021B	
MB 880-48575/70	Method Blank	Total/NA	Water	8021B	
LCS 880-48575/65	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-48575/66	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 48641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-3	MWD-14-W-230303	Total/NA	Water	8021B	
880-25433-7	MW-25-W-230303	Total/NA	Water	8021B	
880-25433-9	MW-24-W-230303	Total/NA	Water	8021B	
880-25433-10	MW-11-W-230303	Total/NA	Water	8021B	
880-25433-11	MW-26-W-230303	Total/NA	Water	8021B	
MB 880-48641/8	Method Blank	Total/NA	Water	8021B	
LCS 880-48641/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-48641/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 48720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-1	RW-8-W-230303	Total/NA	Water	Total BTEX	
880-25433-2	MWD-15-W-230303	Total/NA	Water	Total BTEX	
880-25433-3	MWD-14-W-230303	Total/NA	Water	Total BTEX	
880-25433-4	MW-3-W-230303	Total/NA	Water	Total BTEX	
880-25433-5	MWD-11-W-230303	Total/NA	Water	Total BTEX	
880-25433-6	TMW-1-W-230303	Total/NA	Water	Total BTEX	
880-25433-7	MW-25-W-230303	Total/NA	Water	Total BTEX	
880-25433-8	TMW-6-W-230303	Total/NA	Water	Total BTEX	
880-25433-9	MW-24-W-230303	Total/NA	Water	Total BTEX	
880-25433-10	MW-11-W-230303	Total/NA	Water	Total BTEX	
880-25433-11	MW-26-W-230303	Total/NA	Water	Total BTEX	

GC Semi VOA

Analysis Batch: 80443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-1	RW-8-W-230303	Total/NA	Water	8015 NM	
880-25433-2	MWD-15-W-230303	Total/NA	Water	8015 NM	
880-25433-3	MWD-14-W-230303	Total/NA	Water	8015 NM	
880-25433-4	MW-3-W-230303	Total/NA	Water	8015 NM	
880-25433-5	MWD-11-W-230303	Total/NA	Water	8015 NM	
880-25433-6	TMW-1-W-230303	Total/NA	Water	8015 NM	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

GC Semi VOA (Continued)

Analysis Batch: 80443 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-7	MW-25-W-230303	Total/NA	Water	8015 NM	
880-25433-8	TMW-6-W-230303	Total/NA	Water	8015 NM	
880-25433-9	MW-24-W-230303	Total/NA	Water	8015 NM	
880-25433-10	MW-11-W-230303	Total/NA	Water	8015 NM	
880-25433-11	MW-26-W-230303	Total/NA	Water	8015 NM	

Prep Batch: 93479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-1	RW-8-W-230303	Total/NA	Water	8015NM Aq Prep	
880-25433-2	MWD-15-W-230303	Total/NA	Water	8015NM Aq Prep	
880-25433-3	MWD-14-W-230303	Total/NA	Water	8015NM Aq Prep	
880-25433-4	MW-3-W-230303	Total/NA	Water	8015NM Aq Prep	
880-25433-5	MWD-11-W-230303	Total/NA	Water	8015NM Aq Prep	
880-25433-6	TMW-1-W-230303	Total/NA	Water	8015NM Aq Prep	
880-25433-7	MW-25-W-230303	Total/NA	Water	8015NM Aq Prep	
880-25433-8	TMW-6-W-230303	Total/NA	Water	8015NM Aq Prep	
880-25433-9	MW-24-W-230303	Total/NA	Water	8015NM Aq Prep	
880-25433-10	MW-11-W-230303	Total/NA	Water	8015NM Aq Prep	
880-25433-11	MW-26-W-230303	Total/NA	Water	8015NM Aq Prep	
MB 860-93479/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-93479/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-93479/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 93566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-1	RW-8-W-230303	Total/NA	Water	8015B NM	93479
880-25433-2	MWD-15-W-230303	Total/NA	Water	8015B NM	93479
880-25433-3	MWD-14-W-230303	Total/NA	Water	8015B NM	93479
880-25433-4	MW-3-W-230303	Total/NA	Water	8015B NM	93479
880-25433-5	MWD-11-W-230303	Total/NA	Water	8015B NM	93479
880-25433-6	TMW-1-W-230303	Total/NA	Water	8015B NM	93479
880-25433-7	MW-25-W-230303	Total/NA	Water	8015B NM	93479
880-25433-8	TMW-6-W-230303	Total/NA	Water	8015B NM	93479
880-25433-9	MW-24-W-230303	Total/NA	Water	8015B NM	93479
880-25433-10	MW-11-W-230303	Total/NA	Water	8015B NM	93479
880-25433-11	MW-26-W-230303	Total/NA	Water	8015B NM	93479

Analysis Batch: 93570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-93479/1-A	Method Blank	Total/NA	Water	8015B NM	93479
LCS 860-93479/2-A	Lab Control Sample	Total/NA	Water	8015B NM	93479
LCSD 860-93479/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	93479

HPLC/IC

Analysis Batch: 93644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-1 - DL	RW-8-W-230303	Total/NA	Water	300.0	
880-25433-2 - DL	MWD-15-W-230303	Total/NA	Water	300.0	
880-25433-3 - DL	MWD-14-W-230303	Total/NA	Water	300.0	
880-25433-4	MW-3-W-230303	Total/NA	Water	300.0	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

HPLC/IC (Continued)

Analysis Batch: 93644 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-5	MWD-11-W-230303	Total/NA	Water	300.0	
880-25433-6	TMW-1-W-230303	Total/NA	Water	300.0	
880-25433-7 - DL	MW-25-W-230303	Total/NA	Water	300.0	
880-25433-8	TMW-6-W-230303	Total/NA	Water	300.0	
880-25433-9	MW-24-W-230303	Total/NA	Water	300.0	
880-25433-10	MW-11-W-230303	Total/NA	Water	300.0	
880-25433-11	MW-26-W-230303	Total/NA	Water	300.0	
MB 860-93644/3	Method Blank	Total/NA	Water	300.0	
MB 860-93644/44	Method Blank	Total/NA	Water	300.0	
LCS 860-93644/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-93644/45	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-93644/46	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-93644/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-93644/7	Lab Control Sample	Total/NA	Water	300.0	
880-25433-4 MS	MW-3-W-230303	Total/NA	Water	300.0	
880-25433-4 MSD	MW-3-W-230303	Total/NA	Water	300.0	
880-25433-11 MS	MW-26-W-230303	Total/NA	Water	300.0	
880-25433-11 MSD	MW-26-W-230303	Total/NA	Water	300.0	

Metals

Prep Batch: 92777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-1	RW-8-W-230303	Dissolved	Water	3010A	
880-25433-2	MWD-15-W-230303	Dissolved	Water	3010A	
880-25433-3	MWD-14-W-230303	Dissolved	Water	3010A	
880-25433-4	MW-3-W-230303	Dissolved	Water	3010A	
880-25433-5	MWD-11-W-230303	Dissolved	Water	3010A	
880-25433-6	TMW-1-W-230303	Dissolved	Water	3010A	
880-25433-7	MW-25-W-230303	Dissolved	Water	3010A	
880-25433-8	TMW-6-W-230303	Dissolved	Water	3010A	
880-25433-9	MW-24-W-230303	Dissolved	Water	3010A	
880-25433-10	MW-11-W-230303	Dissolved	Water	3010A	
880-25433-11	MW-26-W-230303	Dissolved	Water	3010A	
MB 860-92777/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-92777/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-92777/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 93018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-4	MW-3-W-230303	Dissolved	Water	6020A	92777
880-25433-8	TMW-6-W-230303	Dissolved	Water	6020A	92777
880-25433-9	MW-24-W-230303	Dissolved	Water	6020A	92777
880-25433-10	MW-11-W-230303	Dissolved	Water	6020A	92777
880-25433-11	MW-26-W-230303	Dissolved	Water	6020A	92777
MB 860-92777/1-A	Method Blank	Total/NA	Water	6020A	92777
LCS 860-92777/2-A	Lab Control Sample	Total/NA	Water	6020A	92777
LCSD 860-92777/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	92777

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Metals

Analysis Batch: 93197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-1	RW-8-W-230303	Dissolved	Water	6020A	92777
880-25433-2	MWD-15-W-230303	Dissolved	Water	6020A	92777
880-25433-3	MWD-14-W-230303	Dissolved	Water	6020A	92777
880-25433-4	MW-3-W-230303	Dissolved	Water	6020A	92777
880-25433-5	MWD-11-W-230303	Dissolved	Water	6020A	92777

Analysis Batch: 93198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-6	TMW-1-W-230303	Dissolved	Water	6020A	92777
880-25433-7	MW-25-W-230303	Dissolved	Water	6020A	92777
880-25433-8	TMW-6-W-230303	Dissolved	Water	6020A	92777
880-25433-9	MW-24-W-230303	Dissolved	Water	6020A	92777

Analysis Batch: 93217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-1	RW-8-W-230303	Dissolved	Water	6020A	92777
880-25433-2	MWD-15-W-230303	Dissolved	Water	6020A	92777
880-25433-3	MWD-14-W-230303	Dissolved	Water	6020A	92777
880-25433-4	MW-3-W-230303	Dissolved	Water	6020A	92777
880-25433-5	MWD-11-W-230303	Dissolved	Water	6020A	92777
880-25433-6	TMW-1-W-230303	Dissolved	Water	6020A	92777

Analysis Batch: 95347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-10	MW-11-W-230303	Dissolved	Water	6020A	92777
880-25433-11	MW-26-W-230303	Dissolved	Water	6020A	92777

General Chemistry

Analysis Batch: 48305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-1	RW-8-W-230303	Dissolved	Water	7196A	
880-25433-2	MWD-15-W-230303	Dissolved	Water	7196A	
880-25433-3	MWD-14-W-230303	Dissolved	Water	7196A	
880-25433-4	MW-3-W-230303	Dissolved	Water	7196A	
880-25433-5	MWD-11-W-230303	Dissolved	Water	7196A	
880-25433-6	TMW-1-W-230303	Dissolved	Water	7196A	
880-25433-7	MW-25-W-230303	Dissolved	Water	7196A	
880-25433-8	TMW-6-W-230303	Dissolved	Water	7196A	
880-25433-9	MW-24-W-230303	Dissolved	Water	7196A	
880-25433-10	MW-11-W-230303	Dissolved	Water	7196A	
MB 880-48305/3	Method Blank	Total/NA	Water	7196A	
LCS 880-48305/4	Lab Control Sample	Total/NA	Water	7196A	
LCSD 880-48305/5	Lab Control Sample Dup	Total/NA	Water	7196A	
880-25433-1 MS	RW-8-W-230303	Dissolved	Water	7196A	
880-25433-1 MSD	RW-8-W-230303	Dissolved	Water	7196A	

Analysis Batch: 48307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-11	MW-26-W-230303	Dissolved	Water	7196A	
MB 880-48307/3	Method Blank	Total/NA	Water	7196A	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

General Chemistry (Continued)

Analysis Batch: 48307 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-48307/4	Lab Control Sample	Total/NA	Water	7196A	
LCSD 880-48307/5	Lab Control Sample Dup	Total/NA	Water	7196A	
880-25433-11 MS	MW-26-W-230303	Dissolved	Water	7196A	
880-25433-11 MSD	MW-26-W-230303	Dissolved	Water	7196A	

Analysis Batch: 93300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25433-1	RW-8-W-230303	Total/NA	Water	SM 2540C	
880-25433-2	MWD-15-W-230303	Total/NA	Water	SM 2540C	
880-25433-3	MWD-14-W-230303	Total/NA	Water	SM 2540C	
880-25433-4	MW-3-W-230303	Total/NA	Water	SM 2540C	
880-25433-5	MWD-11-W-230303	Total/NA	Water	SM 2540C	
880-25433-6	TMW-1-W-230303	Total/NA	Water	SM 2540C	
880-25433-7	MW-25-W-230303	Total/NA	Water	SM 2540C	
880-25433-8	TMW-6-W-230303	Total/NA	Water	SM 2540C	
880-25433-9	MW-24-W-230303	Total/NA	Water	SM 2540C	
880-25433-10	MW-11-W-230303	Total/NA	Water	SM 2540C	
880-25433-11	MW-26-W-230303	Total/NA	Water	SM 2540C	
MB 860-93300/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-93300/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-93300/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-93300/4	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: RW-8-W-230303 Lab Sample ID: 880-25433-1

Date Collected: 03/03/23 07:44 **Matrix: Water**
Date Received: 03/03/23 14:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 20:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48720	03/16/23 09:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			29.8 mL	3 mL	93479	03/09/23 16:01	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93566	03/10/23 18:29	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			93644	03/11/23 08:21	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		10			93217	03/08/23 17:08	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		5			93197	03/07/23 18:54	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48305	03/03/23 16:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	93300	03/08/23 20:00	HN	EET HOU

Client Sample ID: MWD-15-W-230303 Lab Sample ID: 880-25433-2

Date Collected: 03/03/23 08:01 **Matrix: Water**
Date Received: 03/03/23 14:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 21:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48720	03/16/23 09:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.9 mL	3 mL	93479	03/09/23 16:01	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93566	03/10/23 18:48	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			93644	03/11/23 08:46	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		50			93217	03/08/23 17:11	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		5			93197	03/07/23 18:56	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48305	03/03/23 16:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	93300	03/08/23 20:00	HN	EET HOU

Client Sample ID: MWD-14-W-230303 Lab Sample ID: 880-25433-3

Date Collected: 03/03/23 08:16 **Matrix: Water**
Date Received: 03/03/23 14:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 21:48	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	48641	03/16/23 14:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48720	03/16/23 09:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			31 mL	3 mL	93479	03/09/23 16:01	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93566	03/10/23 19:08	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			93644	03/11/23 09:11	A1S	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-14-W-230303 Lab Sample ID: 880-25433-3

Date Collected: 03/03/23 08:16 **Matrix: Water**
Date Received: 03/03/23 14:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		10			93217	03/08/23 17:13	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		5			93197	03/07/23 19:01	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48305	03/03/23 16:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	93300	03/08/23 20:00	HN	EET HOU

Client Sample ID: MW-3-W-230303 Lab Sample ID: 880-25433-4

Date Collected: 03/03/23 08:33 **Matrix: Water**
Date Received: 03/03/23 14:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 22:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48720	03/16/23 09:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			30.1 mL	3 mL	93479	03/09/23 16:01	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93566	03/10/23 19:28	SAR	EET HOU
Total/NA	Analysis	300.0		1			93644	03/11/23 05:41	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		5			93217	03/08/23 17:15	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93018	03/06/23 20:37	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93197	03/07/23 19:04	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48305	03/03/23 16:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	93300	03/08/23 20:00	HN	EET HOU

Client Sample ID: MWD-11-W-230303 Lab Sample ID: 880-25433-5

Date Collected: 03/03/23 08:47 **Matrix: Water**
Date Received: 03/03/23 14:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 22:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48720	03/16/23 09:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.7 mL	3 mL	93479	03/09/23 16:01	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93566	03/10/23 19:48	SAR	EET HOU
Total/NA	Analysis	300.0		1			93644	03/11/23 06:18	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		5			93217	03/08/23 17:18	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93197	03/07/23 19:06	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48305	03/03/23 16:30	CH	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MWD-11-W-230303 Lab Sample ID: 880-25433-5

Date Collected: 03/03/23 08:47 **Matrix: Water**
Date Received: 03/03/23 14:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	93300	03/08/23 20:00	HN	EET HOU

Client Sample ID: TMW-1-W-230303 Lab Sample ID: 880-25433-6

Date Collected: 03/03/23 08:58 **Matrix: Water**
Date Received: 03/03/23 14:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 23:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48720	03/16/23 09:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			33 mL	3 mL	93479	03/09/23 16:01	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93566	03/10/23 20:07	SAR	EET HOU
Total/NA	Analysis	300.0		1			93644	03/11/23 06:30	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		10			93217	03/08/23 17:20	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93198	03/07/23 20:33	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48305	03/03/23 16:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	93300	03/08/23 20:00	HN	EET HOU

Client Sample ID: MW-25-W-230303 Lab Sample ID: 880-25433-7

Date Collected: 03/03/23 09:19 **Matrix: Water**
Date Received: 03/03/23 14:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 23:34	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	48641	03/16/23 14:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48720	03/16/23 09:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			33.4 mL	3 mL	93479	03/09/23 16:01	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93566	03/10/23 20:27	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			93644	03/11/23 10:00	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		5			93198	03/07/23 20:36	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48305	03/03/23 16:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	93300	03/08/23 20:00	HN	EET HOU

Client Sample ID: TMW-6-W-230303 Lab Sample ID: 880-25433-8

Date Collected: 03/03/23 09:33 **Matrix: Water**
Date Received: 03/03/23 14:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/16/23 00:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48720	03/16/23 09:25	SM	EET MID

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: TMW-6-W-230303 Lab Sample ID: 880-25433-8

Date Collected: 03/03/23 09:33 **Matrix: Water**
Date Received: 03/03/23 14:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.4 mL	3 mL	93479	03/09/23 16:01	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93566	03/10/23 20:47	SAR	EET HOU
Total/NA	Analysis	300.0		1			93644	03/11/23 06:43	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93018	03/06/23 20:47	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		10			93198	03/07/23 20:38	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48305	03/03/23 16:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	93300	03/08/23 20:00	HN	EET HOU

Client Sample ID: MW-24-W-230303 Lab Sample ID: 880-25433-9

Date Collected: 03/03/23 09:41 **Matrix: Water**
Date Received: 03/03/23 14:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/16/23 01:43	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	48641	03/16/23 15:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48720	03/16/23 09:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			34.4 mL	3 mL	93479	03/09/23 16:01	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93566	03/10/23 21:06	SAR	EET HOU
Total/NA	Analysis	300.0		1			93644	03/11/23 10:13	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93018	03/06/23 20:54	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		20			93198	03/07/23 20:41	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48305	03/03/23 16:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	93300	03/08/23 20:00	HN	EET HOU

Client Sample ID: MW-11-W-230303 Lab Sample ID: 880-25433-10

Date Collected: 03/03/23 09:58 **Matrix: Water**
Date Received: 03/03/23 14:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/16/23 02:09	MNR	EET MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	48641	03/16/23 15:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48720	03/16/23 09:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/08/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.9 mL	3 mL	93479	03/09/23 16:01	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93566	03/10/23 21:26	SAR	EET HOU
Total/NA	Analysis	300.0		1			93644	03/11/23 06:55	A1S	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Client Sample ID: MW-11-W-230303 Lab Sample ID: 880-25433-10

Date Collected: 03/03/23 09:58 **Matrix: Water**
Date Received: 03/03/23 14:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		20			95347	03/22/23 15:44	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93018	03/06/23 20:56	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48305	03/03/23 16:30	CH	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	93300	03/08/23 20:00	HN	EET HOU

Client Sample ID: MW-26-W-230303 Lab Sample ID: 880-25433-11

Date Collected: 03/03/23 10:10 **Matrix: Water**
Date Received: 03/03/23 14:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/16/23 02:35	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	48641	03/16/23 16:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48720	03/16/23 09:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			80443	03/13/23 15:13	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			33.1 mL	3 mL	93479	03/09/23 16:01	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			93566	03/10/23 22:05	SAR	EET HOU
Total/NA	Analysis	300.0		1			93644	03/11/23 07:32	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		50			95347	03/22/23 15:47	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	92777	03/06/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		1			93018	03/06/23 20:58	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	48307	03/03/23 18:00	CH	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	93300	03/08/23 20:00	HN	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	OII Range Organics (Over C28-C36)

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Eunice Project - South Eunice

Job ID: 880-25433-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
6020A	Metals (ICP/MS)	SW846	EET HOU
7196A	Chromium, Hexavalent	SW846	EET MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU
5030B	Purge and Trap	SW846	EET MID
8015NM Aq Prep	Microextraction	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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 HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Sample Summary

Client: ARCADIS U.S., Inc.
Job ID: 880-25433-1
Project/Site: Eunice Project - South Eunice

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25433-1	RW-8-W-230303	Water	03/03/23 07:44	03/03/23 14:41
880-25433-2	MWD-15-W-230303	Water	03/03/23 08:01	03/03/23 14:41
880-25433-3	MWD-14-W-230303	Water	03/03/23 08:16	03/03/23 14:41
880-25433-4	MW-3-W-230303	Water	03/03/23 08:33	03/03/23 14:41
880-25433-5	MWD-11-W-230303	Water	03/03/23 08:47	03/03/23 14:41
880-25433-6	TMW-1-W-230303	Water	03/03/23 08:58	03/03/23 14:41
880-25433-7	MW-25-W-230303	Water	03/03/23 09:19	03/03/23 14:41
880-25433-8	TMW-6-W-230303	Water	03/03/23 09:33	03/03/23 14:41
880-25433-9	MW-24-W-230303	Water	03/03/23 09:41	03/03/23 14:41
880-25433-10	MW-11-W-230303	Water	03/03/23 09:58	03/03/23 14:41
880-25433-11	MW-26-W-230303	Water	03/03/23 10:10	03/03/23 14:41

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Chain of Custody

XENCO LABORATORIES

Houston TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Work Order No: 254133

www.xenco.com Page 1 of 3

Project Manager	Rebecca Andresen	Bill to (if different)	
Company Name	ARCADIS	Company Name	
Address	1004 N. Big Spring St.	Address	
City, State ZIP	Midland, TX. 79701	City, State ZIP	
Phone	303-471-3477	Email:	andrew.demarco@arcadis.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: New Mexico
Reporting Level II [X] Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD [X] ADaPT ☐ Other

Project Name:	Eunice Project- S Eunice	Turn Around	
Project Number	30049612	Routine [X]	
P.O. Number		Rush	
Sampler's Name:	Jerry Longwell/Daniel McGee	Due Date	

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C)	0.2 / 5.9	Thermometer ID	IR6
Received Intact:	(Yes) No		
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-.30
Sample Custody Seals	Yes No (N/A)	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (SW8015B)	Hex Chrome (SW7196A)	Dissolved Metals (SW6020_DIS) Chromium, Arsenic & Barium)	TDS (SM2540C)	Chlorides (EPA 300.0)
RW-8-W-230303	W	03/03/23	0744		8	X	X	X	X	X	X
MWD-15-N-230303	W	03/03/23	0801		8	X	X	X	X	X	X
MWD-14-W-230303	W	03/03/23	0816		8	X	X	X	X	X	X
MW-3-W-230303	W	03/03/23	0833		8	X	X	X	X	X	X
MWD-11-W-230303	W	03/03/23	0847		8	X	X	X	X	X	X
TMW-1-W-230303	W	03/03/23	0858		8	X	X	X	X	X	X
MW-25-W-230303	W	03/03/23	0913		8	X	X	X	X	X	X
TMW-6-W-230303	W	03/03/23	0933		8	X	X	X	X	X	X
MW-24-W-230303	W	03/03/23	0547		8	X	X	X	X	X	X
MW-11-W-230303	W	03/03/23	0958		8	X	X	X	X	X	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab if received by 4 30pm

Sample Comments

All Samples Corrosive
in MRT

880-25433 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by. (Signature)	Received by: (Signature)	Date/Time
1		03/03/23 1441	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

Received by OCD: 3/13/2024 8:36:42 PM

Released to Imaging: 4/30/2024 10:08:36 AM

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3/22/2023

Chain of Custody

XENCO LABORATORIES

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa,FL (813-620-2000)

Work Order No: 254333

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Project Manager	Rebecca Andresen	Bill to: (if different)	
Company Name.	ARCADIS	Company Name:	
Address.	1004 N Big Spring St	Address.	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	303-471-3477	Email:	andrew demarco@arcadis com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: New Mexico
Reporting Level II ☐ Level III ☒ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☒ ADaPT ☐ Other

Project Name:	Eunice Project- S. Eunice	Turn Around	
Project Number	30049612	Routine	☒
P.O. Number		Rush	
Sampler's Name	Jerry Longwell/Daniel McGee	Due Date	

SAMPLE RECEIPT				
Temp Blank.	Yes No	Wet Ice:	Yes No	
Temperature (°C)		Thermometer ID		
Received Intact:	Yes No			
Cooler Custody Seals.	Yes No N/A	Correction Factor		
Sample Custody Seals.	Yes No N/A	Total Containers.		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (EPA 8021B)	TPH (SW8015B)	Hex Chrome (SW7196A)	Dissolved Metals (SW6020_DIS) Chromium, Arsenic & Barium)	TDS (SM2540C)	Chlorides (EPA 300.0)	Sample Comments
MW-26-W-230303	W	03/03/23	1010		8	X	X	X	X	X	X	All Sample Collected in MSJ

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab if received by 4 30pm

Loc: 880
25433

Total 200.7 / 6010 **200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			03/03/23 1441	2		
3				4		
5				6		

Revised Date 051418 Rev 2018.1

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Received by OCD: 3/13/2024 8:36:42 PM

Released to Imaging: 4/30/2024 10:08:36 AM

Released to Imaging: 4/30/2024 10:08:36 AM
Received by OCD: 3/13/2024 8:36:42 PM

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone: 432-704-5440

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-6441 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 880-25433-1
Address: 4145 Greenbriar Dr	Due Date Requested: 3/9/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Eunice Project South Eunice	Project #: 88000209			
Site:	SSOW#:			

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/FIELD_FLTRD (MOD) Custom List	300_ORGFM_28D/ Chloride	2540C_Calcd	8016MOD_NM/8016NM_Aq_Prep Full TPH	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
RW-8-W-230303 (880-25433-1)	3/3/23	07:44 Mountain		Water			X	X	X	X	X	4	
MWD-15-W-230303 (880-25433-2)	3/3/23	08:01 Mountain		Water			X	X	X	X	X	4	
MWD-14-W-230303 (880-25433-3)	3/3/23	08:16 Mountain		Water			X	X	X	X	X	4	
MW-3-W-230303 (880-25433-4)	3/3/23	08:33 Mountain		Water			X	X	X	X	X	4	
MWD-11-W-230303 (880-25433-5)	3/3/23	08:47 Mountain		Water			X	X	X	X	X	4	
TMW-1-W-230303 (880-25433-6)	3/3/23	08:58 Mountain		Water			X	X	X	X	X	4	
MW-25-W-230303 (880-25433-7)	3/3/23	09:19 Mountain		Water			X	X	X	X	X	4	
TMW-6-W-230303 (880-25433-8)	3/3/23	09:33 Mountain		Water			X	X	X	X	X	4	
MW-24-W-230303 (880-25433-9)	3/3/23	09:41 Mountain		Water			X	X	X	X	X	4	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Jesse Peña	Date/Time: 3/4/2023 9	Company EX
Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:	Temp: C/F:-0.2	IR ID:HOU-344

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 880-25433-1

Login Number: 25433 **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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 880-25433-1

Login Number: 25433 **List Source: Eurofins Houston**
List Number: 2 **List Creation: 03/04/23 10:55 AM**
Creator: Pena, Jesiel

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Sonja Zabienski
ARCADIS US Inc
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 2/22/2024 10:08:26 AM Revision 1

JOB DESCRIPTION

Eunice Project
Lea County, NM

JOB NUMBER

880-33996-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 4/30/2024 10:08:36 AM

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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
2/22/2024 10:08:26 AM
Revision 1

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: ARCADIS US Inc
Project/Site: Eunice Project

Laboratory Job ID: 880-33996-1
SDG: Lea County, NM

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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.
¤	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)

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: ARCADIS US Inc
Project: Eunice Project

Job ID: 880-33996-1

Job ID: 880-33996-1 Eurofins Midland

Job Narrative
880-33996-1

REVISION

The report being provided is a revision of the original report sent on 10/16/2023. The report (revision 1) is being revised due to Revised report to add BTEX per COC.

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

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

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

Receipt
The samples were received on 10/3/2023 4:49 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside the upper control limit: MW-046A-W-20231003 (880-33996-3). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC
Method 300_ORGFM_28D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-093SA-W-20231003 (880-33996-4). Elevated reporting limits (RLs) are provided.

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

Metals
Method 6020A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-125209 and analytical batch 860-125621 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Client Sample ID: MW-043-W-20231003

Date Collected: 10/03/23 10:25
Date Received: 10/03/23 16:49

Lab Sample ID: 880-33996-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460	mg/L			10/17/23 14:13	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			10/17/23 14:13	1
Ethylbenzene	<0.000385	U	0.00100	0.000385	mg/L			10/17/23 14:13	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			10/17/23 14:13	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			10/17/23 14:13	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			10/17/23 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*63 - 144*		*10/17/23 14:13*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*10/17/23 14:13*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*10/17/23 14:13*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/17/23 14:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<1.01	U	5.12	1.01	mg/L			10/10/23 20:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<1.01	U	5.12	1.01	mg/L		10/10/23 08:01	10/10/23 20:25	1
Diesel Range Organics (Over C10-C28)	<1.01	U	5.12	1.01	mg/L		10/10/23 08:01	10/10/23 20:25	1
Oil Range Organics (Over C28-C36)	<0.976	U	5.12	0.976	mg/L		10/10/23 08:01	10/10/23 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 135*	*10/10/23 08:01*	*10/10/23 20:25*	*1*
o-Terphenyl	*134*		*70 - 135*	*10/10/23 08:01*	*10/10/23 20:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**417**		0.500	0.250	mg/L			10/11/23 00:20	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00632**		0.00400	0.000690	mg/L		10/06/23 11:00	10/10/23 13:27	1
Chromium	**0.00101**	**J**	0.00400	0.000560	mg/L		10/06/23 11:00	10/10/23 13:27	1
Iron	<0.0283	U	0.100	0.0283	mg/L		10/06/23 11:00	10/10/23 13:27	1
Manganese	**0.464**		0.0100	0.00380	mg/L		10/06/23 11:00	10/09/23 13:10	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1640**		20.0	20.0	mg/L			10/06/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			10/04/23 08:47	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Client Sample ID: MW-Dup-01-W-20231003

Date Collected: 10/03/23 10:25
Date Received: 10/03/23 16:49

Lab Sample ID: 880-33996-2

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460	mg/L			10/17/23 14:34	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			10/17/23 14:34	1
Ethylbenzene	<0.000385	U	0.00100	0.000385	mg/L			10/17/23 14:34	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			10/17/23 14:34	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			10/17/23 14:34	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			10/17/23 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*		*10/17/23 14:34*	*1*
4-Bromofluorobenzene (Surr)	*105*		*74 - 124*		*10/17/23 14:34*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 131*		*10/17/23 14:34*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*10/17/23 14:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.929	U	4.70	0.929	mg/L			10/10/23 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.929	U	4.70	0.929	mg/L		10/10/23 08:01	10/10/23 20:46	1
Diesel Range Organics (Over C10-C28)	<0.929	U	4.70	0.929	mg/L		10/10/23 08:01	10/10/23 20:46	1
Oil Range Organics (Over C28-C36)	<0.897	U	4.70	0.897	mg/L		10/10/23 08:01	10/10/23 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 135*	*10/10/23 08:01*	*10/10/23 20:46*	*1*
o-Terphenyl	*130*		*70 - 135*	*10/10/23 08:01*	*10/10/23 20:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**433**		0.500	0.250	mg/L			10/11/23 00:41	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00525**		0.00400	0.000690	mg/L		10/06/23 11:00	10/09/23 13:51	1
Chromium	**0.000792**	**J**	0.00400	0.000560	mg/L		10/06/23 11:00	10/09/23 13:51	1
Iron	<0.0283	U	0.100	0.0283	mg/L		10/06/23 11:00	10/09/23 13:51	1
Manganese	**0.403**		0.00200	0.000759	mg/L		10/06/23 11:00	10/09/23 13:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1700**		20.0	20.0	mg/L			10/06/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			10/04/23 08:47	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Client Sample ID: MW-046A-W-20231003

Date Collected: 10/03/23 12:20
Date Received: 10/03/23 16:49

Lab Sample ID: 880-33996-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460	mg/L			10/17/23 14:54	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			10/17/23 14:54	1
Ethylbenzene	<0.000385	U	0.00100	0.000385	mg/L			10/17/23 14:54	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			10/17/23 14:54	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			10/17/23 14:54	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			10/17/23 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*63 - 144*		*10/17/23 14:54*	*1*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*		*10/17/23 14:54*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*10/17/23 14:54*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/17/23 14:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<1.07	U	5.40	1.07	mg/L			10/11/23 13:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<1.07	U	5.40	1.07	mg/L		10/10/23 08:01	10/11/23 13:29	1
Diesel Range Organics (Over C10-C28)	<1.07	U	5.40	1.07	mg/L		10/10/23 08:01	10/11/23 13:29	1
Oil Range Organics (Over C28-C36)	<1.03	U	5.40	1.03	mg/L		10/10/23 08:01	10/11/23 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 135*	*10/10/23 08:01*	*10/11/23 13:29*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 135*	*10/10/23 08:01*	*10/11/23 13:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**63.1**		0.500	0.250	mg/L			10/10/23 22:43	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00244**	**J**	0.00400	0.000690	mg/L		10/06/23 11:00	10/09/23 13:53	1
Chromium	**0.0122**		0.00400	0.000560	mg/L		10/06/23 11:00	10/09/23 13:53	1
Iron	<0.0283	U	0.100	0.0283	mg/L		10/06/23 11:00	10/09/23 13:53	1
Manganese	**0.0806**		0.00200	0.000759	mg/L		10/06/23 11:00	10/09/23 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1260**		10.0	10.0	mg/L			10/06/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			10/04/23 08:47	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Client Sample ID: MW-093SA-W-20231003

Lab Sample ID: 880-33996-4
Matrix: Water
Date Collected: 10/03/23 12:50
Date Received: 10/03/23 16:49

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**695**		5.00	2.50	mg/L			10/11/23 01:13	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00814**		0.00400	0.000690	mg/L		10/06/23 11:00	10/09/23 13:56	1
Chromium	**0.265**		0.00400	0.000560	mg/L		10/06/23 11:00	10/09/23 13:56	1
Iron	<0.0283	U	0.100	0.0283	mg/L		10/06/23 11:00	10/09/23 13:56	1
Manganese	**0.00866**		0.00200	0.000759	mg/L		10/06/23 11:00	10/09/23 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3590**		40.0	40.0	mg/L			10/06/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.293**		0.0100	0.00270	mg/L			10/04/23 08:47	1

Client Sample ID: MW-018-W-20231003

Lab Sample ID: 880-33996-5
Matrix: Water
Date Collected: 10/03/23 13:05
Date Received: 10/03/23 16:49

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**192**		0.500	0.250	mg/L			10/10/23 23:15	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0101**		0.00400	0.000690	mg/L		10/06/23 11:00	10/09/23 13:58	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		10/06/23 11:00	10/09/23 13:58	1
Iron	<0.0283	U	0.100	0.0283	mg/L		10/06/23 11:00	10/09/23 13:58	1
Manganese	<0.000759	U	0.00200	0.000759	mg/L		10/06/23 11:00	10/09/23 13:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1210**		10.0	10.0	mg/L			10/06/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			10/04/23 08:47	1

Client Sample ID: MW-015A-A-W-20231003

Lab Sample ID: 880-33996-6
Matrix: Water
Date Collected: 10/03/23 13:30
Date Received: 10/03/23 16:49

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**193**		0.500	0.250	mg/L			10/10/23 23:26	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00205**	**J**	0.00400	0.000690	mg/L		10/06/23 11:00	10/09/23 14:00	1
Chromium	**0.00115**	**J**	0.00400	0.000560	mg/L		10/06/23 11:00	10/09/23 14:00	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Client Sample ID: MW-015A-A-W-20231003

Lab Sample ID: 880-33996-6
Matrix: Water
Date Collected: 10/03/23 13:30
Date Received: 10/03/23 16:49

Method: SW846 6020A - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.0283	U	0.100	0.0283	mg/L		10/06/23 11:00	10/09/23 14:00	1
Manganese	**0.0509**		0.00200	0.000759	mg/L		10/06/23 11:00	10/09/23 14:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3060**		40.0	40.0	mg/L			10/06/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			10/04/23 08:47	1

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-120)
880-33996-1	MW-043-W-20231003	104	101	102	103
880-33996-2	MW-Dup-01-W-20231003	103	105	96	105
880-33996-3	MW-046A-W-20231003	104	102	100	103
LCS 860-126693/3	Lab Control Sample	98	100	105	104
LCSD 860-126693/4	Lab Control Sample Dup	109	96	97	103
MB 860-126693/9	Method Blank	105	104	101	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-135)	(70-135)
880-33996-1	MW-043-W-20231003	119	134
880-33996-2	MW-Dup-01-W-20231003	112	130
880-33996-3	MW-046A-W-20231003	122	138 S1+
LCS 860-125365/2-A	Lab Control Sample	107	121
LCSD 860-125365/3-A	Lab Control Sample Dup	108	118
MB 860-125365/1-A	Method Blank	105	129

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-126693/9
Matrix: Water
Analysis Batch: 126693

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000460	U	0.00100	0.000460	mg/L			10/17/23 12:31	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			10/17/23 12:31	1
Ethylbenzene	<0.000385	U	0.00100	0.000385	mg/L			10/17/23 12:31	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			10/17/23 12:31	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			10/17/23 12:31	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			10/17/23 12:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 144*		*10/17/23 12:31*	*1*
4-Bromofluorobenzene (Surr)	*104*		*74 - 124*		*10/17/23 12:31*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*10/17/23 12:31*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/17/23 12:31*	*1*

Lab Sample ID: LCS 860-126693/3
Matrix: Water
Analysis Batch: 126693

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05669		mg/L		113	75 - 125
Toluene	0.0500	0.05194		mg/L		104	70 - 130
Ethylbenzene	0.0500	0.05363		mg/L		107	75 - 125
m,p-Xylenes	0.0500	0.05430		mg/L		109	75 - 125
o-Xylene	0.0500	0.04999		mg/L		100	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*105*		*75 - 131*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: LCSD 860-126693/4
Matrix: Water
Analysis Batch: 126693

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.05408		mg/L		108	75 - 125	5	25
Toluene	0.0500	0.04944		mg/L		99	70 - 130	5	25
Ethylbenzene	0.0500	0.05136		mg/L		103	75 - 125	4	25
m,p-Xylenes	0.0500	0.05152		mg/L		103	75 - 125	5	25
o-Xylene	0.0500	0.04823		mg/L		96	75 - 125	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*63 - 144*
4-Bromofluorobenzene (Surr)	*96*		*74 - 124*
Dibromofluoromethane (Surr)	*97*		*75 - 131*
Toluene-d8 (Surr)	*103*		*80 - 120*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-125365/1-A
Matrix: Water
Analysis Batch: 125598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 125365

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<1.02	U	5.17	1.02	mg/L		10/09/23 08:13	10/10/23 16:16	1
Diesel Range Organics (Over C10-C28)	<1.02	U	5.17	1.02	mg/L		10/09/23 08:13	10/10/23 16:16	1
Oil Range Organics (Over C28-C36)	<0.986	U	5.17	0.986	mg/L		10/09/23 08:13	10/10/23 16:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 135*	*10/09/23 08:13*	*10/10/23 16:16*	*1*
o-Terphenyl	*129*		*70 - 135*	*10/09/23 08:13*	*10/10/23 16:16*	*1*

Lab Sample ID: LCS 860-125365/2-A
Matrix: Water
Analysis Batch: 125598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 125365

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	104	88.94		mg/L		86	70 - 135
Diesel Range Organics (Over C10-C28)	103	101.1		mg/L		98	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 135*
o-Terphenyl	*121*		*70 - 135*

Lab Sample ID: LCSD 860-125365/3-A
Matrix: Water
Analysis Batch: 125598

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 125365

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	104	93.39		mg/L		90	70 - 135	5	35
Diesel Range Organics (Over C10-C28)	103	104.1		mg/L		101	70 - 135	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 135*
o-Terphenyl	*118*		*70 - 135*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-125728/3
Matrix: Water
Analysis Batch: 125728

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250	U	0.500	0.250	mg/L			10/10/23 21:49	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-125728/4
Matrix: Water
Analysis Batch: 125728

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.959		mg/L		100	90 - 110

Lab Sample ID: LCSD 860-125728/5
Matrix: Water
Analysis Batch: 125728

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.972		mg/L		100	90 - 110	0	20

Lab Sample ID: LLCS 860-125728/7
Matrix: Water
Analysis Batch: 125728

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.5250		mg/L		105	50 - 150

Lab Sample ID: 880-33996-3 MS
Matrix: Water
Analysis Batch: 125728

Client Sample ID: MW-046A-W-20231003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	63.1		10.0	72.15	4	mg/L		90	90 - 110

Lab Sample ID: 880-33996-3 MSD
Matrix: Water
Analysis Batch: 125728

Client Sample ID: MW-046A-W-20231003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	63.1		10.0	72.21	4	mg/L		91	90 - 110	0	15

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-125209/1-A
Matrix: Water
Analysis Batch: 125621

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 125209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000690	U	0.00400	0.000690	mg/L		10/06/23 11:00	10/09/23 13:03	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		10/06/23 11:00	10/09/23 13:03	1
Iron	<0.0283	U	0.100	0.0283	mg/L		10/06/23 11:00	10/09/23 13:03	1
Manganese	<0.000759	U	0.00200	0.000759	mg/L		10/06/23 11:00	10/09/23 13:03	1

Lab Sample ID: LCS 860-125209/2-A
Matrix: Water
Analysis Batch: 125621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 125209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.09816		mg/L		98	80 - 120
Barium	0.100	0.1006		mg/L		101	80 - 120
Chromium	0.100	0.09932		mg/L		99	80 - 120

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-125209/2-A
Matrix: Water
Analysis Batch: 125621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 125209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.500	0.4892		mg/L		98	80 - 120
Manganese	0.100	0.1003		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-125209/3-A
Matrix: Water
Analysis Batch: 125621

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 125209

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.100	0.09942		mg/L		99	80 - 120	1	20
Barium	0.100	0.09891		mg/L		99	80 - 120	2	20
Chromium	0.100	0.09916		mg/L		99	80 - 120	0	20
Iron	0.500	0.4938		mg/L		99	80 - 120	1	20
Manganese	0.100	0.09925		mg/L		99	80 - 120	1	20

Lab Sample ID: 880-33996-1 MS
Matrix: Water
Analysis Batch: 125621

Client Sample ID: MW-043-W-20231003
Prep Type: Dissolved
Prep Batch: 125209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.00670	J	0.100	0.1098		mg/L		103	75 - 125
Barium	0.258		0.100	0.3435		mg/L		85	75 - 125
Chromium	<0.00280	U	0.100	0.1031		mg/L		103	75 - 125
Iron	<0.141	U	0.500	0.5316		mg/L		106	75 - 125
Manganese	0.464		0.100	0.5428	4	mg/L		79	75 - 125

Lab Sample ID: 880-33996-1 MSD
Matrix: Water
Analysis Batch: 125621

Client Sample ID: MW-043-W-20231003
Prep Type: Dissolved
Prep Batch: 125209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.00670	J	0.100	0.1115		mg/L		105	75 - 125	2	20
Barium	0.258		0.100	0.3568		mg/L		99	75 - 125	4	20
Chromium	<0.00280	U	0.100	0.1083		mg/L		108	75 - 125	5	20
Iron	<0.141	U	0.500	0.5634		mg/L		113	75 - 125	6	20
Manganese	0.464		0.100	0.5590	4	mg/L		95	75 - 125	3	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 880-63924/3
Matrix: Water
Analysis Batch: 63924

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.00270	U	0.0100	0.00270	mg/L			10/04/23 08:47	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCS 880-63924/4
Matrix: Water
Analysis Batch: 63924

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)			0.0400	0.04088		mg/L		102	85 - 115		

Lab Sample ID: LCSD 880-63924/5
Matrix: Water
Analysis Batch: 63924

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)			0.0400	0.04088		mg/L		102	85 - 115	0	20

Lab Sample ID: 880-33996-2 MS
Matrix: Water
Analysis Batch: 63924

Client Sample ID: MW-Dup-01-W-20231003
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)	<0.00270	U	0.200	0.2041		mg/L		102	85 - 115		

Lab Sample ID: 880-33996-2 MSD
Matrix: Water
Analysis Batch: 63924

Client Sample ID: MW-Dup-01-W-20231003
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	<0.00270	U	0.200	0.2041		mg/L		102	85 - 115	0	20

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

Lab Sample ID: MB 860-125188/1
Matrix: Water
Analysis Batch: 125188

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00	mg/L			10/06/23 09:46	1

Lab Sample ID: LCS 860-125188/2
Matrix: Water
Analysis Batch: 125188

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	976.0		mg/L		98	80 - 120		

Lab Sample ID: LCSD 860-125188/3
Matrix: Water
Analysis Batch: 125188

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	975.0		mg/L		98	80 - 120	0	10

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

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

Lab Sample ID: LLCS 860-125188/26
Matrix: Water
Analysis Batch: 125188

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	7.000		mg/L		140	50 - 150		

Lab Sample ID: 880-33996-1 DU
Matrix: Water
Analysis Batch: 125188

Client Sample ID: MW-043-W-20231003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1640			1564		mg/L				5	10

Lab Sample ID: 880-33996-2 DU
Matrix: Water
Analysis Batch: 125188

Client Sample ID: MW-Dup-01-W-20231003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1700			1692		mg/L				0.5	10

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

GC/MS VOA

Analysis Batch: 126693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33996-1	MW-043-W-20231003	Total/NA	Water	8260D	
880-33996-2	MW-Dup-01-W-20231003	Total/NA	Water	8260D	
880-33996-3	MW-046A-W-20231003	Total/NA	Water	8260D	
MB 860-126693/9	Method Blank	Total/NA	Water	8260D	
LCS 860-126693/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-126693/4	Lab Control Sample Dup	Total/NA	Water	8260D	

GC Semi VOA

Analysis Batch: 123288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33996-1	MW-043-W-20231003	Total/NA	Water	8015 NM	
880-33996-2	MW-Dup-01-W-20231003	Total/NA	Water	8015 NM	
880-33996-3	MW-046A-W-20231003	Total/NA	Water	8015 NM	

Prep Batch: 125365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33996-1	MW-043-W-20231003	Total/NA	Water	8015NM Aq Prep	
880-33996-2	MW-Dup-01-W-20231003	Total/NA	Water	8015NM Aq Prep	
880-33996-3	MW-046A-W-20231003	Total/NA	Water	8015NM Aq Prep	
MB 860-125365/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-125365/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-125365/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 125594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33996-1	MW-043-W-20231003	Total/NA	Water	8015B NM	125365
880-33996-2	MW-Dup-01-W-20231003	Total/NA	Water	8015B NM	125365

Analysis Batch: 125598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-125365/1-A	Method Blank	Total/NA	Water	8015B NM	125365
LCS 860-125365/2-A	Lab Control Sample	Total/NA	Water	8015B NM	125365
LCSD 860-125365/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	125365

Analysis Batch: 125774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33996-3	MW-046A-W-20231003	Total/NA	Water	8015B NM	125365

HPLC/IC

Analysis Batch: 125728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33996-1	MW-043-W-20231003	Total/NA	Water	300.0	
880-33996-2	MW-Dup-01-W-20231003	Total/NA	Water	300.0	
880-33996-3	MW-046A-W-20231003	Total/NA	Water	300.0	
880-33996-4	MW-093SA-W-20231003	Total/NA	Water	300.0	
880-33996-5	MW-018-W-20231003	Total/NA	Water	300.0	
880-33996-6	MW-015A-A-W-20231003	Total/NA	Water	300.0	
MB 860-125728/3	Method Blank	Total/NA	Water	300.0	
LCS 860-125728/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-125728/5	Lab Control Sample Dup	Total/NA	Water	300.0	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 125728 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 860-125728/7	Lab Control Sample	Total/NA	Water	300.0	
880-33996-3 MS	MW-046A-W-20231003	Total/NA	Water	300.0	
880-33996-3 MSD	MW-046A-W-20231003	Total/NA	Water	300.0	

Metals

Prep Batch: 125209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33996-1	MW-043-W-20231003	Dissolved	Water	3010A	
880-33996-2	MW-Dup-01-W-20231003	Dissolved	Water	3010A	
880-33996-3	MW-046A-W-20231003	Dissolved	Water	3010A	
880-33996-4	MW-093SA-W-20231003	Dissolved	Water	3010A	
880-33996-5	MW-018-W-20231003	Dissolved	Water	3010A	
880-33996-6	MW-015A-A-W-20231003	Dissolved	Water	3010A	
MB 860-125209/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-125209/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-125209/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
880-33996-1 MS	MW-043-W-20231003	Dissolved	Water	3010A	
880-33996-1 MSD	MW-043-W-20231003	Dissolved	Water	3010A	

Analysis Batch: 125621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33996-1	MW-043-W-20231003	Dissolved	Water	6020A	125209
880-33996-2	MW-Dup-01-W-20231003	Dissolved	Water	6020A	125209
880-33996-3	MW-046A-W-20231003	Dissolved	Water	6020A	125209
880-33996-4	MW-093SA-W-20231003	Dissolved	Water	6020A	125209
880-33996-5	MW-018-W-20231003	Dissolved	Water	6020A	125209
880-33996-6	MW-015A-A-W-20231003	Dissolved	Water	6020A	125209
MB 860-125209/1-A	Method Blank	Total/NA	Water	6020A	125209
LCS 860-125209/2-A	Lab Control Sample	Total/NA	Water	6020A	125209
LCSD 860-125209/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	125209
880-33996-1 MS	MW-043-W-20231003	Dissolved	Water	6020A	125209
880-33996-1 MSD	MW-043-W-20231003	Dissolved	Water	6020A	125209

Analysis Batch: 125706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33996-1	MW-043-W-20231003	Dissolved	Water	6020A	125209

General Chemistry

Analysis Batch: 63924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33996-1	MW-043-W-20231003	Dissolved	Water	7196A	
880-33996-2	MW-Dup-01-W-20231003	Dissolved	Water	7196A	
880-33996-3	MW-046A-W-20231003	Dissolved	Water	7196A	
880-33996-4	MW-093SA-W-20231003	Dissolved	Water	7196A	
880-33996-5	MW-018-W-20231003	Dissolved	Water	7196A	
880-33996-6	MW-015A-A-W-20231003	Dissolved	Water	7196A	
MB 880-63924/3	Method Blank	Total/NA	Water	7196A	
LCS 880-63924/4	Lab Control Sample	Total/NA	Water	7196A	
LCSD 880-63924/5	Lab Control Sample Dup	Total/NA	Water	7196A	
880-33996-2 MS	MW-Dup-01-W-20231003	Dissolved	Water	7196A	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

General Chemistry (Continued)

Analysis Batch: 63924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33996-2 MSD	MW-Dup-01-W-20231003	Dissolved	Water	7196A	

Analysis Batch: 125188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33996-1	MW-043-W-20231003	Total/NA	Water	SM 2540C	
880-33996-2	MW-Dup-01-W-20231003	Total/NA	Water	SM 2540C	
880-33996-3	MW-046A-W-20231003	Total/NA	Water	SM 2540C	
880-33996-4	MW-093SA-W-20231003	Total/NA	Water	SM 2540C	
880-33996-5	MW-018-W-20231003	Total/NA	Water	SM 2540C	
880-33996-6	MW-015A-A-W-20231003	Total/NA	Water	SM 2540C	
MB 860-125188/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-125188/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-125188/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-125188/26	Lab Control Sample	Total/NA	Water	SM 2540C	
880-33996-1 DU	MW-043-W-20231003	Total/NA	Water	SM 2540C	
880-33996-2 DU	MW-Dup-01-W-20231003	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Client Sample ID: MW-043-W-20231003
Date Collected: 10/03/23 10:25
Date Received: 10/03/23 16:49

Lab Sample ID: 880-33996-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	126693	10/17/23 14:13	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			123288	10/10/23 20:25	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			29.3 mL	3 mL	125365	10/10/23 08:01	TH	EET HOU
Total/NA	Analysis	8015B NM		1			125594	10/10/23 20:25	T1S	EET HOU
Total/NA	Analysis	300.0		1			125728	10/11/23 00:20	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	125209	10/06/23 11:00	MD	EET HOU
Dissolved	Analysis	6020A		5			125621	10/09/23 13:10	DP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	125209	10/06/23 11:00	MD	EET HOU
Dissolved	Analysis	6020A		1			125706	10/10/23 13:27	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	63924	10/04/23 08:47	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	125188	10/06/23 09:46	SA	EET HOU

Client Sample ID: MW-Dup-01-W-20231003
Date Collected: 10/03/23 10:25
Date Received: 10/03/23 16:49

Lab Sample ID: 880-33996-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	126693	10/17/23 14:34	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			123288	10/10/23 20:46	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.9 mL	3 mL	125365	10/10/23 08:01	TH	EET HOU
Total/NA	Analysis	8015B NM		1			125594	10/10/23 20:46	T1S	EET HOU
Total/NA	Analysis	300.0		1			125728	10/11/23 00:41	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	125209	10/06/23 11:00	MD	EET HOU
Dissolved	Analysis	6020A		1			125621	10/09/23 13:51	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	63924	10/04/23 08:47	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	125188	10/06/23 09:46	SA	EET HOU

Client Sample ID: MW-046A-W-20231003
Date Collected: 10/03/23 12:20
Date Received: 10/03/23 16:49

Lab Sample ID: 880-33996-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	126693	10/17/23 14:54	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			123288	10/11/23 13:29	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			27.8 mL	3 mL	125365	10/10/23 08:01	TH	EET HOU
Total/NA	Analysis	8015B NM		1			125774	10/11/23 13:29	T1S	EET HOU
Total/NA	Analysis	300.0		1			125728	10/10/23 22:43	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	125209	10/06/23 11:00	MD	EET HOU
Dissolved	Analysis	6020A		1			125621	10/09/23 13:53	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	63924	10/04/23 08:47	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	125188	10/06/23 09:46	SA	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Client Sample ID: MW-093SA-W-20231003

Lab Sample ID: 880-33996-4
Matrix: Water
Date Collected: 10/03/23 12:50
Date Received: 10/03/23 16:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			125728	10/11/23 01:13	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	125209	10/06/23 11:00	MD	EET HOU
Dissolved	Analysis	6020A		1			125621	10/09/23 13:56	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	63924	10/04/23 08:47	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	125188	10/06/23 09:46	SA	EET HOU

Client Sample ID: MW-018-W-20231003

Lab Sample ID: 880-33996-5
Matrix: Water
Date Collected: 10/03/23 13:05
Date Received: 10/03/23 16:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			125728	10/10/23 23:15	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	125209	10/06/23 11:00	MD	EET HOU
Dissolved	Analysis	6020A		1			125621	10/09/23 13:58	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	63924	10/04/23 08:47	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	125188	10/06/23 09:46	SA	EET HOU

Client Sample ID: MW-015A-A-W-20231003

Lab Sample ID: 880-33996-6
Matrix: Water
Date Collected: 10/03/23 13:30
Date Received: 10/03/23 16:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			125728	10/10/23 23:26	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	125209	10/06/23 11:00	MD	EET HOU
Dissolved	Analysis	6020A		1			125621	10/09/23 14:00	DP	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	63924	10/04/23 08:47	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	125188	10/06/23 09:46	SA	EET HOU

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	01-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)

Method Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
6020A	Metals (ICP/MS)	SW846	EET HOU
7196A	Chromium, Hexavalent	SW846	EET MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Sample Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-33996-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-33996-1	MW-043-W-20231003	Water	10/03/23 10:25	10/03/23 16:49
880-33996-2	MW-Dup-01-W-20231003	Water	10/03/23 10:25	10/03/23 16:49
880-33996-3	MW-046A-W-20231003	Water	10/03/23 12:20	10/03/23 16:49
880-33996-4	MW-093SA-W-20231003	Water	10/03/23 12:50	10/03/23 16:49
880-33996-5	MW-018-W-20231003	Water	10/03/23 13:05	10/03/23 16:49
880-33996-6	MW-015A-A-W-20231003	Water	10/03/23 13:30	10/03/23 16:49

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Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins Environment Testing

339960

Client Information	Sampler: Heath Boyd	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-6968-983 1
Client Contact: ~~Sonia~~ Nadya Cintron Franqui	Phone: 575-390-4618	E-Mail: John Builes@et.eurofinsus com	State of Origin: NM	Page: ~~1 of 1~~ 1 of 1
Company: ARCADIS US Inc	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): Standard			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 939-489-2339	PO #: Purchase Order not required			
Email: ~~Andrew.DeMarco@arcadis.com~~ Nadya.CintronFranqui@arcadis.com	WO #:			
Project Name: Eunice North	Project #: ~~88000209~~ 30180473			
Site: Lea County, NM	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B - NaOH, C - Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G - Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D, 7196A	6020A - (MOD) Custom List	2540C_Calcd - Local Method	8015MOD_NM - (MOD) Full TPH	8021B - BTEX	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	D	N	A	A		
MW-043-W-20231003	10/3/23	1025	G	Water			X	X	X	X	X		
MW-Dup-01-W-20231003	10/3/23	N/A		Water			X	X	X	X	X		
MW-046A-W-20231003	10/3/23	1220		Water			X	X	X	X	X		
MW-093SA-W-20231003	10/3/23	1250		Water			X	X	X				
MW-018-W-20231003	10/3/23	1305		Water			X	X	X				
MW-015A-W-20231003	10/3/23	1330	X	Water			X	X	X				
				Water									
				Water									
				Water									
				Water									
				Water									

880-33996 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Michael Rodriguez	10/03/23 1650	Arcadis		10/5/23	
Relinquished by	Date/Time	Company	Received by	Date/Time 1649	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 5.8 | 5.5

Ver 01/16/2019

Received by OCD: 3/13/2024 8:36:42 PM
Page 27 of 29
2/22/2024 (Rev. 1)
Released to Imaging: 4/30/2024 10:08:36 AM

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-33996-1
SDG Number: Lea County, NM

Login Number: 33996
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-33996-1
SDG Number: Lea County, NM

Login Number: 33996
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 10/05/23 01:43 PM

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Andrew DeMarco
ARCADIS US Inc
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 11/7/2023 9:23:16 AM

JOB DESCRIPTION

Eunice South
SDG NUMBER Lea County, NM

JOB NUMBER

880-35118-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 4/30/2024 10:08:36 AM

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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
11/7/2023 9:23:16 AM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: ARCADIS US Inc
Project/Site: Eunice South

Laboratory Job ID: 880-35118-1
SDG: Lea County, NM

Table of Contents

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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.
¤	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

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Job ID: 880-35118-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-35118-1

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

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

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

Receipt
The samples were received on 10/31/2023 5:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 15.1°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-66129/8) and (880-34963-A-1 MDLV). Evidence of matrix interferences is not obvious.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 880-66129 recovered outside control limits for the following analytes: Toluene and o-Xylene.

Method 8021B: The matrix spike duplicate (MSD) recoveries for analytical batch 880-66129 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

HPLC/IC
Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-15-W-20231031 (880-35118-1), MW-16-W-20231031 (880-35118-2), MW-38-W-20231031 (880-35118-3), MW-32-W-20231031 (880-35118-7) and DUP-01-W-20231031 (880-35118-8). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: Due to the high concentration of Chloride the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 860-129266 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-129266 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

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

Metals
Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-34-W-20231031 (880-35118-6) and MW-32-W-20231031 (880-35118-7). Elevated reporting limits (RLs) are provided.

Released to Imaging: 4/30/2024 10:08:36 AM

Case Narrative

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Job ID: 880-35118-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 6020A: The following samples were diluted due to the nature of the sample matrix: MW-15-W-20231031 (880-35118-1), MW-16-W-20231031 (880-35118-2), MW-38-W-20231031 (880-35118-3), MW-35-W-20231031 (880-35118-4), MW-3-W-20231031 (880-35118-5), MW-34-W-20231031 (880-35118-6), MW-32-W-20231031 (880-35118-7) and DUP-01-W-20231031 (880-35118-8). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: MW-15-W-20231031

Date Collected: 10/31/23 10:40
Date Received: 10/31/23 17:10

Lab Sample ID: 880-35118-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000971**	**J**	0.00200	0.000408	mg/L			11/03/23 12:18	1
Toluene	<0.000367	U *1 F1	0.00200	0.000367	mg/L			11/03/23 12:18	1
Ethylbenzene	<0.000657	U F1	0.00200	0.000657	mg/L			11/03/23 12:18	1
m-Xylene & p-Xylene	**0.00172**	**J**	0.00400	0.000629	mg/L			11/03/23 12:18	1
o-Xylene	**0.000858**	**J *1**	0.00200	0.000642	mg/L			11/03/23 12:18	1
Xylenes, Total	**0.00258**	**J *1**	0.00400	0.000642	mg/L			11/03/23 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*11/03/23 12:18*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*		*11/03/23 12:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00355**	**J**	0.00400	0.000657	mg/L			11/03/23 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.950	U	4.81	0.950	mg/L			11/03/23 15:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.950	U	4.81	0.950	mg/L		11/03/23 10:49	11/03/23 15:31	1
Diesel Range Organics (Over C10-C28)	<0.950	U	4.81	0.950	mg/L		11/03/23 10:49	11/03/23 15:31	1
OII Range Organics (Over C28-C36)	<0.917	U	4.81	0.917	mg/L		11/03/23 10:49	11/03/23 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 135*	*11/03/23 10:49*	*11/03/23 15:31*	*1*
o-Terphenyl	*112*		*70 - 135*	*11/03/23 10:49*	*11/03/23 15:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1380**		5.00	2.50	mg/L			11/03/23 01:51	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0138**	**J**	0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 14:59	5
Barium	**0.0433**		0.0200	0.00671	mg/L		11/06/23 09:30	11/06/23 14:59	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 14:59	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4660**		40.0	40.0	mg/L			11/03/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/01/23 09:01	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: MW-16-W-20231031

Date Collected: 10/31/23 11:15
Date Received: 10/31/23 17:10

Lab Sample ID: 880-35118-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00105**	**J**	0.00200	0.000408	mg/L			11/03/23 12:44	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			11/03/23 12:44	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 12:44	1
m-Xylene & p-Xylene	**0.00169**	**J**	0.00400	0.000629	mg/L			11/03/23 12:44	1
o-Xylene	**0.000858**	**J *1**	0.00200	0.000642	mg/L			11/03/23 12:44	1
Xylenes, Total	**0.00255**	**J *1**	0.00400	0.000642	mg/L			11/03/23 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*		*11/03/23 12:44*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*		*11/03/23 12:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00360**	**J**	0.00400	0.000657	mg/L			11/03/23 12:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.947	U	4.79	0.947	mg/L			11/03/23 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.947	U	4.79	0.947	mg/L		11/03/23 10:49	11/03/23 15:51	1
Diesel Range Organics (Over C10-C28)	<0.947	U	4.79	0.947	mg/L		11/03/23 10:49	11/03/23 15:51	1
OII Range Organics (Over C28-C36)	<0.914	U	4.79	0.914	mg/L		11/03/23 10:49	11/03/23 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 135*	*11/03/23 10:49*	*11/03/23 15:51*	*1*
o-Terphenyl	*113*		*70 - 135*	*11/03/23 10:49*	*11/03/23 15:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1750**		5.00	2.50	mg/L			11/03/23 02:16	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0147**	**J**	0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 15:01	5
Barium	**0.0387**		0.0200	0.00671	mg/L		11/06/23 09:30	11/06/23 15:01	5
Chromium	**0.0880**		0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 15:01	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4480**		40.0	40.0	mg/L			11/03/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.0742**		0.0100	0.00270	mg/L			11/01/23 09:01	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: MW-38-W-20231031

Date Collected: 10/31/23 11:45
Date Received: 10/31/23 17:10

Lab Sample ID: 880-35118-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00102**	**J**	0.00200	0.000408	mg/L			11/03/23 13:10	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			11/03/23 13:10	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 13:10	1
m-Xylene & p-Xylene	**0.00180**	**J**	0.00400	0.000629	mg/L			11/03/23 13:10	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			11/03/23 13:10	1
Xylenes, Total	**0.00180**	**J *1**	0.00400	0.000642	mg/L			11/03/23 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*11/03/23 13:10*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*		*11/03/23 13:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00282**	**J**	0.00400	0.000657	mg/L			11/03/23 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.941	U	4.76	0.941	mg/L			11/03/23 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.941	U	4.76	0.941	mg/L		11/03/23 10:49	11/03/23 16:11	1
Diesel Range Organics (Over C10-C28)	<0.941	U	4.76	0.941	mg/L		11/03/23 10:49	11/03/23 16:11	1
OII Range Organics (Over C28-C36)	<0.908	U	4.76	0.908	mg/L		11/03/23 10:49	11/03/23 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:11*	*1*
o-Terphenyl	*112*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1050**		5.00	2.50	mg/L			11/03/23 03:32	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00691**	**J**	0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 15:03	5
Barium	**0.0922**		0.0200	0.00671	mg/L		11/06/23 09:30	11/06/23 15:03	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 15:03	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3000**		40.0	40.0	mg/L			11/03/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/01/23 09:01	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: MW-35-W-20231031

Date Collected: 10/31/23 12:55
Date Received: 10/31/23 17:10

Lab Sample ID: 880-35118-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000968**	**J**	0.00200	0.000408	mg/L			11/03/23 13:36	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			11/03/23 13:36	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 13:36	1
m-Xylene & p-Xylene	**0.00169**	**J**	0.00400	0.000629	mg/L			11/03/23 13:36	1
o-Xylene	**0.000877**	**J *1**	0.00200	0.000642	mg/L			11/03/23 13:36	1
Xylenes, Total	**0.00257**	**J *1**	0.00400	0.000642	mg/L			11/03/23 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*		*11/03/23 13:36*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*		*11/03/23 13:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00354**	**J**	0.00400	0.000657	mg/L			11/03/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.941	U	4.76	0.941	mg/L			11/03/23 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.941	U	4.76	0.941	mg/L		11/03/23 10:49	11/03/23 16:51	1
Diesel Range Organics (Over C10-C28)	<0.941	U	4.76	0.941	mg/L		11/03/23 10:49	11/03/23 16:51	1
OII Range Organics (Over C28-C36)	<0.908	U	4.76	0.908	mg/L		11/03/23 10:49	11/03/23 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:51*	*1*
o-Terphenyl	*110*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**149**		0.500	0.250	mg/L			11/02/23 23:07	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00940**	**J**	0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 15:20	5
Barium	**0.107**		0.0200	0.00671	mg/L		11/06/23 09:30	11/06/23 15:20	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 15:20	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**940**		10.0	10.0	mg/L			11/03/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/01/23 09:01	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: MW-3-W-20231031

Date Collected: 10/31/23 13:15
Date Received: 10/31/23 17:10

Lab Sample ID: 880-35118-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			11/03/23 14:02	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			11/03/23 14:02	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 14:02	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			11/03/23 14:02	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			11/03/23 14:02	1
Xylenes, Total	<0.000642	U *1	0.00400	0.000642	mg/L			11/03/23 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*		*11/03/23 14:02*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*11/03/23 14:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			11/03/23 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.956	U	4.84	0.956	mg/L			11/03/23 16:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.956	U	4.84	0.956	mg/L		11/03/23 10:49	11/03/23 16:31	1
Diesel Range Organics (Over C10-C28)	<0.956	U	4.84	0.956	mg/L		11/03/23 10:49	11/03/23 16:31	1
OII Range Organics (Over C28-C36)	<0.923	U	4.84	0.923	mg/L		11/03/23 10:49	11/03/23 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:31*	*1*
o-Terphenyl	*112*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.6**		0.500	0.250	mg/L			11/02/23 23:45	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0189**	**J**	0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 15:22	5
Barium	**0.0509**		0.0200	0.00671	mg/L		11/06/23 09:30	11/06/23 15:22	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 15:22	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**721**		10.0	10.0	mg/L			11/03/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/01/23 09:01	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: MW-34-W-20231031

Date Collected: 10/31/23 13:30
Date Received: 10/31/23 17:10

Lab Sample ID: 880-35118-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00102**	**J**	0.00200	0.000408	mg/L			11/03/23 14:28	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			11/03/23 14:28	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 14:28	1
m-Xylene & p-Xylene	**0.00172**	**J**	0.00400	0.000629	mg/L			11/03/23 14:28	1
o-Xylene	**0.00157**	**J *1**	0.00200	0.000642	mg/L			11/03/23 14:28	1
Xylenes, Total	**0.00329**	**J *1**	0.00400	0.000642	mg/L			11/03/23 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*11/03/23 14:28*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*		*11/03/23 14:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00431**		0.00400	0.000657	mg/L			11/03/23 14:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3.03**	**J**	4.78	0.944	mg/L			11/03/23 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.80**	**J**	4.78	0.944	mg/L		11/03/23 10:49	11/03/23 16:51	1
Diesel Range Organics (Over C10-C28)	**1.23**	**J**	4.78	0.944	mg/L		11/03/23 10:49	11/03/23 16:51	1
OII Range Organics (Over C28-C36)	<0.911	U	4.78	0.911	mg/L		11/03/23 10:49	11/03/23 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:51*	*1*
o-Terphenyl	*108*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**238**		0.500	0.250	mg/L			11/03/23 03:45	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00345	U	0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 15:24	5
Barium	**4.60**		0.200	0.0671	mg/L		11/06/23 09:30	11/06/23 15:33	50
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 15:24	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1750**		20.0	20.0	mg/L			11/03/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.0105**		0.0100	0.00270	mg/L			11/01/23 09:01	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: MW-32-W-20231031

Date Collected: 10/31/23 13:50
Date Received: 10/31/23 17:10

Lab Sample ID: 880-35118-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.211**		0.00200	0.000408	mg/L			11/03/23 14:54	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			11/03/23 14:54	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 14:54	1
m-Xylene & p-Xylene	**0.00170**	**J**	0.00400	0.000629	mg/L			11/03/23 14:54	1
o-Xylene	**0.00106**	**J *1**	0.00200	0.000642	mg/L			11/03/23 14:54	1
Xylenes, Total	**0.00276**	**J *1**	0.00400	0.000642	mg/L			11/03/23 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*11/03/23 14:54*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*		*11/03/23 14:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.214**		0.00400	0.000657	mg/L			11/03/23 14:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1.73**	**J**	4.84	0.956	mg/L			11/03/23 17:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.73**	**J**	4.84	0.956	mg/L		11/03/23 10:49	11/03/23 17:12	1
Diesel Range Organics (Over C10-C28)	<0.956	U	4.84	0.956	mg/L		11/03/23 10:49	11/03/23 17:12	1
OII Range Organics (Over C28-C36)	<0.923	U	4.84	0.923	mg/L		11/03/23 10:49	11/03/23 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 135*	*11/03/23 10:49*	*11/03/23 17:12*	*1*
o-Terphenyl	*112*		*70 - 135*	*11/03/23 10:49*	*11/03/23 17:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**871**		5.00	2.50	mg/L			11/03/23 04:23	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0538**		0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 15:26	5
Barium	**2.80**		0.200	0.0671	mg/L		11/06/23 09:30	11/06/23 15:36	50
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 15:26	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3370**		40.0	40.0	mg/L			11/03/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.0110**		0.0100	0.00270	mg/L			11/01/23 09:01	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: DUP-01-W-20231031

Date Collected: 10/31/23 10:40
Date Received: 10/31/23 17:10

Lab Sample ID: 880-35118-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00118**	**J**	0.00200	0.000408	mg/L			11/03/23 15:20	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			11/03/23 15:20	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 15:20	1
m-Xylene & p-Xylene	**0.00169**	**J**	0.00400	0.000629	mg/L			11/03/23 15:20	1
o-Xylene	**0.000854**	**J *1**	0.00200	0.000642	mg/L			11/03/23 15:20	1
Xylenes, Total	**0.00254**	**J *1**	0.00400	0.000642	mg/L			11/03/23 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*11/03/23 15:20*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*		*11/03/23 15:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00372**	**J**	0.00400	0.000657	mg/L			11/03/23 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.938	U	4.75	0.938	mg/L			11/03/23 17:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.938	U	4.75	0.938	mg/L		11/03/23 10:49	11/03/23 17:12	1
Diesel Range Organics (Over C10-C28)	<0.938	U	4.75	0.938	mg/L		11/03/23 10:49	11/03/23 17:12	1
OII Range Organics (Over C28-C36)	<0.905	U	4.75	0.905	mg/L		11/03/23 10:49	11/03/23 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 135*	*11/03/23 10:49*	*11/03/23 17:12*	*1*
o-Terphenyl	*116*		*70 - 135*	*11/03/23 10:49*	*11/03/23 17:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1460**		5.00	2.50	mg/L			11/03/23 04:48	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0149**	**J**	0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 15:29	5
Barium	**0.0481**		0.0200	0.00671	mg/L		11/06/23 09:30	11/06/23 15:29	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 15:29	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4730**		40.0	40.0	mg/L			11/03/23 09:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/01/23 09:01	1

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-35118-1	MW-15-W-20231031	100	92
880-35118-1 MS	MW-15-W-20231031	103	104
880-35118-1 MSD	MW-15-W-20231031	122	125
880-35118-2	MW-16-W-20231031	117	109
880-35118-3	MW-38-W-20231031	98	83
880-35118-4	MW-35-W-20231031	115	95
880-35118-5	MW-3-W-20231031	116	105
880-35118-6	MW-34-W-20231031	106	86
880-35118-7	MW-32-W-20231031	83	73
880-35118-8	DUP-01-W-20231031	103	113
LCS 880-66129/3	Lab Control Sample	110	102
LCSD 880-66129/4	Lab Control Sample Dup	91	82
MB 880-66129/8	Method Blank	54 S1-	88

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
880-35118-1	MW-15-W-20231031	103	112
880-35118-2	MW-16-W-20231031	104	113
880-35118-3	MW-38-W-20231031	104	112
880-35118-4	MW-35-W-20231031	102	110
880-35118-5	MW-3-W-20231031	104	112
880-35118-6	MW-34-W-20231031	113	108
880-35118-7	MW-32-W-20231031	102	112
880-35118-8	DUP-01-W-20231031	115	116
LCS 860-129393/2-A	Lab Control Sample	113	108
LCSD 860-129393/3-A	Lab Control Sample Dup	115	106
MB 860-129393/1-A	Method Blank	110	106

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66129/8
Matrix: Water
Analysis Batch: 66129

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			11/03/23 11:52	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/03/23 11:52	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 11:52	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			11/03/23 11:52	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			11/03/23 11:52	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			11/03/23 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*54*	*S1-*	*70 - 130*		*11/03/23 11:52*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*		*11/03/23 11:52*	*1*

Lab Sample ID: LCS 880-66129/3
Matrix: Water
Analysis Batch: 66129

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09054		mg/L		91	70 - 130		
Toluene			0.100	0.1138		mg/L		114	70 - 130		
Ethylbenzene			0.100	0.1123		mg/L		112	70 - 130		
m-Xylene & p-Xylene			0.200	0.2248		mg/L		112	70 - 130		
o-Xylene			0.100	0.1158		mg/L		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-66129/4
Matrix: Water
Analysis Batch: 66129

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08827		mg/L		88	70 - 130	3	20
Toluene			0.100	0.08827	*1	mg/L		88	70 - 130	25	20
Ethylbenzene			0.100	0.09527		mg/L		95	70 - 130	16	20
m-Xylene & p-Xylene			0.200	0.1848		mg/L		92	70 - 130	20	20
o-Xylene			0.100	0.08953	*1	mg/L		90	70 - 130	26	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*

Lab Sample ID: 880-35118-1 MS
Matrix: Water
Analysis Batch: 66129

Client Sample ID: MW-15-W-20231031
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.000971	J	0.100	0.1087		mg/L		108	70 - 130		
Toluene	<0.000367	U *1 F1	0.100	0.1070		mg/L		107	70 - 130		

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

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

Lab Sample ID: 880-35118-1 MS
Matrix: Water
Analysis Batch: 66129

Client Sample ID: MW-15-W-20231031
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000657	U F1	0.100	0.1126		mg/L		113	70 - 130
m-Xylene & p-Xylene	0.00172	J	0.200	0.2191		mg/L		109	70 - 130
o-Xylene	0.000858	J *1	0.100	0.1054		mg/L		105	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-35118-1 MSD
Matrix: Water
Analysis Batch: 66129

Client Sample ID: MW-15-W-20231031
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.000971	J	0.100	0.1232		mg/L		122	70 - 130	13	25
Toluene	<0.000367	U *1 F1	0.100	0.1376	F1	mg/L		138	70 - 130	25	25
Ethylbenzene	<0.000657	U F1	0.100	0.1417	F1	mg/L		142	70 - 130	23	25
m-Xylene & p-Xylene	0.00172	J	0.200	0.2596		mg/L		129	70 - 130	17	25
o-Xylene	0.000858	J *1	0.100	0.1298		mg/L		129	70 - 130	21	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-129393/1-A
Matrix: Water
Analysis Batch: 129323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 129393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		11/03/23 10:49	11/03/23 16:31	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		11/03/23 10:49	11/03/23 16:31	1
OII Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		11/03/23 10:49	11/03/23 16:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:31*	*1*
o-Terphenyl	*106*		*70 - 135*	*11/03/23 10:49*	*11/03/23 16:31*	*1*

Lab Sample ID: LCS 860-129393/2-A
Matrix: Water
Analysis Batch: 129323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	99.9	108.8		mg/L		109	70 - 135
Diesel Range Organics (Over C10-C28)	99.9	106.9		mg/L		107	70 - 135

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 860-129393/2-A
Matrix: Water
Analysis Batch: 129323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129393

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	113		70 - 135
o-Terphenyl	108		70 - 135

Lab Sample ID: LCSD 860-129393/3-A
Matrix: Water
Analysis Batch: 129323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 129393

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			99.9	106.4		mg/L		106	70 - 135	2	35
Diesel Range Organics (Over C10-C28)			99.9	102.6		mg/L		103	70 - 135	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	115		70 - 135
o-Terphenyl	106		70 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-129266/3
Matrix: Water
Analysis Batch: 129266

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250	U	0.500	0.250	mg/L			11/02/23 20:48	1

Lab Sample ID: LCS 860-129266/4
Matrix: Water
Analysis Batch: 129266

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.665		mg/L		97	90 - 110		

Lab Sample ID: LCSD 860-129266/5
Matrix: Water
Analysis Batch: 129266

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.563		mg/L		96	90 - 110	1	20

Lab Sample ID: LLCS 860-129266/7
Matrix: Water
Analysis Batch: 129266

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.4822	J	mg/L		96	50 - 150		

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-35118-4 MS
Matrix: Water
Analysis Batch: 129266

Client Sample ID: MW-35-W-20231031
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	149		10.0	157.3	4	mg/L		86	90 - 110

Lab Sample ID: 880-35118-4 MSD
Matrix: Water
Analysis Batch: 129266

Client Sample ID: MW-35-W-20231031
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	149		10.0	157.1	4	mg/L		84	90 - 110	0	15

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-129601/1-A
Matrix: Water
Analysis Batch: 129721

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 129601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000690	U	0.00400	0.000690	mg/L		11/06/23 09:30	11/06/23 14:22	1
Barium	<0.00134	U	0.00400	0.00134	mg/L		11/06/23 09:30	11/06/23 14:22	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		11/06/23 09:30	11/06/23 14:22	1

Lab Sample ID: LCS 860-129601/2-A
Matrix: Water
Analysis Batch: 129721

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.09845		mg/L		98	80 - 120
Barium	0.100	0.09520		mg/L		95	80 - 120
Chromium	0.100	0.09973		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-129601/3-A
Matrix: Water
Analysis Batch: 129721

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 129601

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.100	0.09587		mg/L		96	80 - 120	3	20
Barium	0.100	0.09472		mg/L		95	80 - 120	1	20
Chromium	0.100	0.09840		mg/L		98	80 - 120	1	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 880-65942/3
Matrix: Water
Analysis Batch: 65942

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.00270	U	0.0100	0.00270	mg/L			11/01/23 09:01	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCS 880-65942/4
Matrix: Water
Analysis Batch: 65942

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)			0.0400	0.04138		mg/L		103	85 - 115		

Lab Sample ID: LCSD 880-65942/5
Matrix: Water
Analysis Batch: 65942

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)			0.0400	0.04138		mg/L		103	85 - 115	0	20

Lab Sample ID: 880-35118-1 MS
Matrix: Water
Analysis Batch: 65942

Client Sample ID: MW-15-W-20231031
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)	<0.00270	U	0.200	0.2111		mg/L		106	85 - 115		

Lab Sample ID: 880-35118-1 MSD
Matrix: Water
Analysis Batch: 65942

Client Sample ID: MW-15-W-20231031
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	<0.00270	U	0.200	0.2111		mg/L		106	85 - 115	0	20

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

Lab Sample ID: MB 860-129366/1
Matrix: Water
Analysis Batch: 129366

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00	mg/L			11/03/23 09:46	1

Lab Sample ID: LCS 860-129366/2
Matrix: Water
Analysis Batch: 129366

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1083		mg/L		108	80 - 120		

Lab Sample ID: LCSD 860-129366/3
Matrix: Water
Analysis Batch: 129366

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1097		mg/L		110	80 - 120	1	10

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

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

Lab Sample ID: LLCS 860-129366/4
Matrix: Water
Analysis Batch: 129366

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			5.00	<5.00	U	mg/L		90	50 - 150		

Lab Sample ID: 880-35118-1 DU
Matrix: Water
Analysis Batch: 129366

Client Sample ID: MW-15-W-20231031
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	4660			4616		mg/L				0.9	10

Lab Sample ID: 880-35118-2 DU
Matrix: Water
Analysis Batch: 129366

Client Sample ID: MW-16-W-20231031
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	4480			4604		mg/L				3	10

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 66129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35118-1	MW-15-W-20231031	Total/NA	Water	8021B	
880-35118-2	MW-16-W-20231031	Total/NA	Water	8021B	
880-35118-3	MW-38-W-20231031	Total/NA	Water	8021B	
880-35118-4	MW-35-W-20231031	Total/NA	Water	8021B	
880-35118-5	MW-3-W-20231031	Total/NA	Water	8021B	
880-35118-6	MW-34-W-20231031	Total/NA	Water	8021B	
880-35118-7	MW-32-W-20231031	Total/NA	Water	8021B	
880-35118-8	DUP-01-W-20231031	Total/NA	Water	8021B	
MB 880-66129/8	Method Blank	Total/NA	Water	8021B	
LCS 880-66129/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-66129/4	Lab Control Sample Dup	Total/NA	Water	8021B	
880-35118-1 MS	MW-15-W-20231031	Total/NA	Water	8021B	
880-35118-1 MSD	MW-15-W-20231031	Total/NA	Water	8021B	

Analysis Batch: 66304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35118-1	MW-15-W-20231031	Total/NA	Water	Total BTEX	
880-35118-2	MW-16-W-20231031	Total/NA	Water	Total BTEX	
880-35118-3	MW-38-W-20231031	Total/NA	Water	Total BTEX	
880-35118-4	MW-35-W-20231031	Total/NA	Water	Total BTEX	
880-35118-5	MW-3-W-20231031	Total/NA	Water	Total BTEX	
880-35118-6	MW-34-W-20231031	Total/NA	Water	Total BTEX	
880-35118-7	MW-32-W-20231031	Total/NA	Water	Total BTEX	
880-35118-8	DUP-01-W-20231031	Total/NA	Water	Total BTEX	

GC Semi VOA

Analysis Batch: 101425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35118-1	MW-15-W-20231031	Total/NA	Water	8015 NM	
880-35118-2	MW-16-W-20231031	Total/NA	Water	8015 NM	
880-35118-3	MW-38-W-20231031	Total/NA	Water	8015 NM	
880-35118-4	MW-35-W-20231031	Total/NA	Water	8015 NM	
880-35118-5	MW-3-W-20231031	Total/NA	Water	8015 NM	
880-35118-6	MW-34-W-20231031	Total/NA	Water	8015 NM	
880-35118-7	MW-32-W-20231031	Total/NA	Water	8015 NM	
880-35118-8	DUP-01-W-20231031	Total/NA	Water	8015 NM	

Analysis Batch: 129323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35118-6	MW-34-W-20231031	Total/NA	Water	8015B NM	129393
880-35118-8	DUP-01-W-20231031	Total/NA	Water	8015B NM	129393
MB 860-129393/1-A	Method Blank	Total/NA	Water	8015B NM	129393
LCS 860-129393/2-A	Lab Control Sample	Total/NA	Water	8015B NM	129393
LCSD 860-129393/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	129393

Analysis Batch: 129326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35118-1	MW-15-W-20231031	Total/NA	Water	8015B NM	129393
880-35118-2	MW-16-W-20231031	Total/NA	Water	8015B NM	129393
880-35118-3	MW-38-W-20231031	Total/NA	Water	8015B NM	129393

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 129326 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35118-4	MW-35-W-20231031	Total/NA	Water	8015B NM	129393
880-35118-5	MW-3-W-20231031	Total/NA	Water	8015B NM	129393
880-35118-7	MW-32-W-20231031	Total/NA	Water	8015B NM	129393

Prep Batch: 129393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35118-1	MW-15-W-20231031	Total/NA	Water	8015NM Aq Prep	
880-35118-2	MW-16-W-20231031	Total/NA	Water	8015NM Aq Prep	
880-35118-3	MW-38-W-20231031	Total/NA	Water	8015NM Aq Prep	
880-35118-4	MW-35-W-20231031	Total/NA	Water	8015NM Aq Prep	
880-35118-5	MW-3-W-20231031	Total/NA	Water	8015NM Aq Prep	
880-35118-6	MW-34-W-20231031	Total/NA	Water	8015NM Aq Prep	
880-35118-7	MW-32-W-20231031	Total/NA	Water	8015NM Aq Prep	
880-35118-8	DUP-01-W-20231031	Total/NA	Water	8015NM Aq Prep	
MB 860-129393/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-129393/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-129393/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 129266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35118-1 - DL	MW-15-W-20231031	Total/NA	Water	300.0	
880-35118-2 - DL	MW-16-W-20231031	Total/NA	Water	300.0	
880-35118-3 - DL	MW-38-W-20231031	Total/NA	Water	300.0	
880-35118-4	MW-35-W-20231031	Total/NA	Water	300.0	
880-35118-5	MW-3-W-20231031	Total/NA	Water	300.0	
880-35118-6	MW-34-W-20231031	Total/NA	Water	300.0	
880-35118-7 - DL	MW-32-W-20231031	Total/NA	Water	300.0	
880-35118-8 - DL	DUP-01-W-20231031	Total/NA	Water	300.0	
MB 860-129266/3	Method Blank	Total/NA	Water	300.0	
LCS 860-129266/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-129266/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-129266/7	Lab Control Sample	Total/NA	Water	300.0	
880-35118-4 MS	MW-35-W-20231031	Total/NA	Water	300.0	
880-35118-4 MSD	MW-35-W-20231031	Total/NA	Water	300.0	

Metals

Prep Batch: 129601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35118-1	MW-15-W-20231031	Dissolved	Water	3010A	
880-35118-2	MW-16-W-20231031	Dissolved	Water	3010A	
880-35118-3	MW-38-W-20231031	Dissolved	Water	3010A	
880-35118-4	MW-35-W-20231031	Dissolved	Water	3010A	
880-35118-5	MW-3-W-20231031	Dissolved	Water	3010A	
880-35118-6	MW-34-W-20231031	Dissolved	Water	3010A	
880-35118-7	MW-32-W-20231031	Dissolved	Water	3010A	
880-35118-8	DUP-01-W-20231031	Dissolved	Water	3010A	
MB 860-129601/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-129601/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-129601/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Metals

Analysis Batch: 129721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35118-1	MW-15-W-20231031	Dissolved	Water	6020A	129601
880-35118-2	MW-16-W-20231031	Dissolved	Water	6020A	129601
880-35118-3	MW-38-W-20231031	Dissolved	Water	6020A	129601
880-35118-4	MW-35-W-20231031	Dissolved	Water	6020A	129601
880-35118-5	MW-3-W-20231031	Dissolved	Water	6020A	129601
880-35118-6	MW-34-W-20231031	Dissolved	Water	6020A	129601
880-35118-6	MW-34-W-20231031	Dissolved	Water	6020A	129601
880-35118-7	MW-32-W-20231031	Dissolved	Water	6020A	129601
880-35118-7	MW-32-W-20231031	Dissolved	Water	6020A	129601
880-35118-8	DUP-01-W-20231031	Dissolved	Water	6020A	129601
MB 860-129601/1-A	Method Blank	Total/NA	Water	6020A	129601
LCS 860-129601/2-A	Lab Control Sample	Total/NA	Water	6020A	129601
LCSD 860-129601/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	129601

General Chemistry

Analysis Batch: 65942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35118-1	MW-15-W-20231031	Dissolved	Water	7196A	
880-35118-2	MW-16-W-20231031	Dissolved	Water	7196A	
880-35118-3	MW-38-W-20231031	Dissolved	Water	7196A	
880-35118-4	MW-35-W-20231031	Dissolved	Water	7196A	
880-35118-5	MW-3-W-20231031	Dissolved	Water	7196A	
880-35118-6	MW-34-W-20231031	Dissolved	Water	7196A	
880-35118-7	MW-32-W-20231031	Dissolved	Water	7196A	
880-35118-8	DUP-01-W-20231031	Dissolved	Water	7196A	
MB 880-65942/3	Method Blank	Total/NA	Water	7196A	
LCS 880-65942/4	Lab Control Sample	Total/NA	Water	7196A	
LCSD 880-65942/5	Lab Control Sample Dup	Total/NA	Water	7196A	
880-35118-1 MS	MW-15-W-20231031	Dissolved	Water	7196A	
880-35118-1 MSD	MW-15-W-20231031	Dissolved	Water	7196A	

Analysis Batch: 129366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35118-1	MW-15-W-20231031	Total/NA	Water	SM 2540C	
880-35118-2	MW-16-W-20231031	Total/NA	Water	SM 2540C	
880-35118-3	MW-38-W-20231031	Total/NA	Water	SM 2540C	
880-35118-4	MW-35-W-20231031	Total/NA	Water	SM 2540C	
880-35118-5	MW-3-W-20231031	Total/NA	Water	SM 2540C	
880-35118-6	MW-34-W-20231031	Total/NA	Water	SM 2540C	
880-35118-7	MW-32-W-20231031	Total/NA	Water	SM 2540C	
880-35118-8	DUP-01-W-20231031	Total/NA	Water	SM 2540C	
MB 860-129366/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-129366/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-129366/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-129366/4	Lab Control Sample	Total/NA	Water	SM 2540C	
880-35118-1 DU	MW-15-W-20231031	Total/NA	Water	SM 2540C	
880-35118-2 DU	MW-16-W-20231031	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: MW-15-W-20231031

Lab Sample ID: 880-35118-1
Matrix: Water
Date Collected: 10/31/23 10:40
Date Received: 10/31/23 17:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	66129	11/03/23 12:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66304	11/03/23 12:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/03/23 15:31	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.2 mL	3 mL	129393	11/03/23 10:49	BNW	EET HOU
Total/NA	Analysis	8015B NM		1			129326	11/03/23 15:31	CZT	EET HOU
Total/NA	Analysis	300.0	DL	10			129266	11/03/23 01:51	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129601	11/06/23 09:30	MD	EET HOU
Dissolved	Analysis	6020A		5			129721	11/06/23 14:59	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	65942	11/01/23 09:01	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	129366	11/03/23 09:46	SA	EET HOU

Client Sample ID: MW-16-W-20231031

Lab Sample ID: 880-35118-2
Matrix: Water
Date Collected: 10/31/23 11:15
Date Received: 10/31/23 17:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	66129	11/03/23 12:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66304	11/03/23 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/03/23 15:51	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.3 mL	3 mL	129393	11/03/23 10:49	BNW	EET HOU
Total/NA	Analysis	8015B NM		1			129326	11/03/23 15:51	CZT	EET HOU
Total/NA	Analysis	300.0	DL	10			129266	11/03/23 02:16	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129601	11/06/23 09:30	MD	EET HOU
Dissolved	Analysis	6020A		5			129721	11/06/23 15:01	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	65942	11/01/23 09:01	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	129366	11/03/23 09:46	SA	EET HOU

Client Sample ID: MW-38-W-20231031

Lab Sample ID: 880-35118-3
Matrix: Water
Date Collected: 10/31/23 11:45
Date Received: 10/31/23 17:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	66129	11/03/23 13:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66304	11/03/23 13:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/03/23 16:11	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.5 mL	3 mL	129393	11/03/23 10:49	BNW	EET HOU
Total/NA	Analysis	8015B NM		1			129326	11/03/23 16:11	CZT	EET HOU
Total/NA	Analysis	300.0	DL	10			129266	11/03/23 03:32	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129601	11/06/23 09:30	MD	EET HOU
Dissolved	Analysis	6020A		5			129721	11/06/23 15:03	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	65942	11/01/23 09:01	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	129366	11/03/23 09:46	SA	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: MW-35-W-20231031

Lab Sample ID: 880-35118-4
Matrix: Water
Date Collected: 10/31/23 12:55
Date Received: 10/31/23 17:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	66129	11/03/23 13:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66304	11/03/23 13:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/03/23 16:51	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.5 mL	3 mL	129393	11/03/23 10:49	BNW	EET HOU
Total/NA	Analysis	8015B NM		1			129326	11/03/23 16:51	CZT	EET HOU
Total/NA	Analysis	300.0		1			129266	11/02/23 23:07	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129601	11/06/23 09:30	MD	EET HOU
Dissolved	Analysis	6020A		5			129721	11/06/23 15:20	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	65942	11/01/23 09:01	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	129366	11/03/23 09:46	SA	EET HOU

Client Sample ID: MW-3-W-20231031

Lab Sample ID: 880-35118-5
Matrix: Water
Date Collected: 10/31/23 13:15
Date Received: 10/31/23 17:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	66129	11/03/23 14:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66304	11/03/23 14:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/03/23 16:31	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31 mL	3 mL	129393	11/03/23 10:49	BNW	EET HOU
Total/NA	Analysis	8015B NM		1			129326	11/03/23 16:31	CZT	EET HOU
Total/NA	Analysis	300.0		1			129266	11/02/23 23:45	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129601	11/06/23 09:30	MD	EET HOU
Dissolved	Analysis	6020A		5			129721	11/06/23 15:22	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	65942	11/01/23 09:01	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	129366	11/03/23 09:46	SA	EET HOU

Client Sample ID: MW-34-W-20231031

Lab Sample ID: 880-35118-6
Matrix: Water
Date Collected: 10/31/23 13:30
Date Received: 10/31/23 17:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	66129	11/03/23 14:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66304	11/03/23 14:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/03/23 16:51	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.4 mL	3 mL	129393	11/03/23 10:49	BNW	EET HOU
Total/NA	Analysis	8015B NM		1			129323	11/03/23 16:51	T1S	EET HOU
Total/NA	Analysis	300.0		1			129266	11/03/23 03:45	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129601	11/06/23 09:30	MD	EET HOU
Dissolved	Analysis	6020A		5			129721	11/06/23 15:24	SHZ	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129601	11/06/23 09:30	MD	EET HOU
Dissolved	Analysis	6020A		50			129721	11/06/23 15:33	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	65942	11/01/23 09:01	SMC	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Client Sample ID: MW-34-W-20231031

Lab Sample ID: 880-35118-6
Matrix: Water
Date Collected: 10/31/23 13:30
Date Received: 10/31/23 17:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	129366	11/03/23 09:46	SA	EET HOU

Client Sample ID: MW-32-W-20231031

Lab Sample ID: 880-35118-7
Matrix: Water
Date Collected: 10/31/23 13:50
Date Received: 10/31/23 17:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	66129	11/03/23 14:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66304	11/03/23 14:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/03/23 17:12	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31 mL	3 mL	129393	11/03/23 10:49	BNW	EET HOU
Total/NA	Analysis	8015B NM		1			129326	11/03/23 17:12	CZT	EET HOU
Total/NA	Analysis	300.0	DL	10			129266	11/03/23 04:23	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129601	11/06/23 09:30	MD	EET HOU
Dissolved	Analysis	6020A		5			129721	11/06/23 15:26	SHZ	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129601	11/06/23 09:30	MD	EET HOU
Dissolved	Analysis	6020A		50			129721	11/06/23 15:36	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	65942	11/01/23 09:01	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	129366	11/03/23 09:46	SA	EET HOU

Client Sample ID: DUP-01-W-20231031

Lab Sample ID: 880-35118-8
Matrix: Water
Date Collected: 10/31/23 10:40
Date Received: 10/31/23 17:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	66129	11/03/23 15:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66304	11/03/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/03/23 17:12	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.6 mL	3 mL	129393	11/03/23 10:49	BNW	EET HOU
Total/NA	Analysis	8015B NM		1			129323	11/03/23 17:12	T1S	EET HOU
Total/NA	Analysis	300.0	DL	10			129266	11/03/23 04:48	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129601	11/06/23 09:30	MD	EET HOU
Dissolved	Analysis	6020A		5			129721	11/06/23 15:29	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	65942	11/01/23 09:01	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	129366	11/03/23 09:46	SA	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-53	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)

Method Summary

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
6020A	Metals (ICP/MS)	SW846	EET HOU
7196A	Chromium, Hexavalent	SW846	EET MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU
5030B	Purge and Trap	SW846	EET MID
8015NM Aq Prep	Microextraction	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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 HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Sample Summary

Client: ARCADIS US Inc
Project/Site: Eunice South

Job ID: 880-35118-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35118-1	MW-15-W-20231031	Water	10/31/23 10:40	10/31/23 17:10
880-35118-2	MW-16-W-20231031	Water	10/31/23 11:15	10/31/23 17:10
880-35118-3	MW-38-W-20231031	Water	10/31/23 11:45	10/31/23 17:10
880-35118-4	MW-35-W-20231031	Water	10/31/23 12:55	10/31/23 17:10
880-35118-5	MW-3-W-20231031	Water	10/31/23 13:15	10/31/23 17:10
880-35118-6	MW-34-W-20231031	Water	10/31/23 13:30	10/31/23 17:10
880-35118-7	MW-32-W-20231031	Water	10/31/23 13:50	10/31/23 17:10
880-35118-8	DUP-01-W-20231031	Water	10/31/23 10:40	10/31/23 17:10

Released to Imaging: 4/30/2024 10:08:36 AM
Received by OCD: 3/13/2024 8:36:42 PM

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

880-35118 Chain of Custody

Client Information	Sampler: Michael Rodriguez	Lab PM: Builes John	Carrier Tracking No:
Client Contact: ~~Sonja Zabienski~~ Nadja Cintron Franqui	Phone: 432-944-3725	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: NM
Company: ARCADIS US Inc	PWSID:		
Address: 1004 North Big Spring Suite 300	Due Date Requested:		
City: Midland	TAT Requested (days): Standard		
State, Zip: TX 79701	Compliance Project: Δ Yes Δ No		
Phone: 4713408958	PO #: Purchase Order not required		
Email: Nadja.CintronFranqui@arcadis.com ~~sonja.zabienski@arcadis.com~~	WO #:		
Project Name: Eunice South	Project #: 88000209		
Site: Lea County, NM	SSOW#:		

Job #:

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	6020A - (MOD) Custom List	2540C_Calcd - Local Method	8015MOD_NM - (MOD) Full TPH	8021B - BTEX	7196A - Local Method	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	D	N	A	A	N		
MW-15-W-20231031	10/31/23	1040	G	Water	X	N	X	X	X	X	X	X	9	
MW-16-W-20231031	10/31/23	1115	G	Water	Y	N	X	X	X	X	X	X	9	
MW-38-W-20231031	10/31/23	1145	G	Water	Y	N	X	X	X	X	X	X	9	
MW-35-W-20231031	10/31/23	1255	G	Water	Y	N	X	X	X	X	X	X	9	
MW-3-W-20231031	10/31/23	1315	G	Water	Y	N	X	X	X	X	X	X	9	
MW-34-W-20231031	10/31/23	1330	G	Water	Y	N	X	X	X	X	X	X	9	
MW-32-W-20231031	10/31/23	1350	G	Water	Y	N	X	X	X	X	X	X	9	
DUP-01-W-20231031	10/31/23	1040	G	Water	Y	N	X	X	X	X	X	X	9	
				Water										
				Water										
				Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Michael Rodriguez	10/31/23 1710	Arcadis		10/31/23 1710	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks. 14-9|15.1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-35118-1
SDG Number: Lea County, NM

Login Number: 35118
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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	Received same day of collection; chilling process has begun.
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	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-35118-1
SDG Number: Lea County, NM

Login Number: 35118
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 11/02/23 12:51 PM

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Andrew DeMarco
ARCADIS US Inc
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 11/14/2023 4:38:34 PM

JOB DESCRIPTION

Eunice Project
Lea County, NM

JOB NUMBER

880-35199-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 4/30/2024 10:08:36 AM

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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
11/14/2023 4:38:34 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: ARCADIS US Inc
Project/Site: Eunice Project

Laboratory Job ID: 880-35199-1
SDG: Lea County, NM

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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.
¤	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

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Job ID: 880-35199-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-35199-1

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

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

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

Receipt
The samples were received on 11/2/2023 8:16 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 0.8°C

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66189 and analytical batch 880-66213 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-66213 recovered under the lower control limit for Toluene, Ethylbenzene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: The matrix spike duplicate (MSD) recoveries for analytical batch 880-66213 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with analytical batch 880-66213 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: MWD-14-W-20231101 (880-35199-11) and DUP-02-W-20231101 (880-35199-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: MW-25-W-20231101 (880-35199-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-66129/8) and (880-34963-A-1 MDLV). Evidence of matrix interferences is not obvious.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 880-66129 recovered outside control limits for the following analytes: Toluene and o-Xylene.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66805 and analytical batch 880-66808 was outside the upper control limits.

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

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

HPLC/IC

Case Narrative

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Job ID: 880-35199-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Chloride analytical batch 860-129689 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-129705 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MWD-12-W-20231101 (880-35199-3), MW-25-W-20231101 (880-35199-8), MWD-15-W-20231101 (880-35199-9), MW-17-W-20231101 (880-35199-10) and MWD-14-W-20231101 (880-35199-11). Elevated reporting limits (RLs) are provided.

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

Metals

Method 6020A: The following sample was diluted due to the nature of the sample matrix: MW-30-W-20231101 (880-35199-2). Elevated reporting limits (RLs) are provided.

Method 6020A: The following samples were diluted due to the nature of the sample matrix: MWD-12-W-20231101 (880-35199-3), MW-26-W-20231101 (880-35199-5), MW-11-W-20231101 (880-35199-6), MW-24-W-20231101 (880-35199-7), MW-25-W-20231101 (880-35199-8), MWD-15-W-20231101 (880-35199-9) and DUP-02-W-20231101 (880-35199-12). Elevated reporting limits (RLs) are provided.

Method 6020A: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-26-W-20231101 (880-35199-5) and MW-24-W-20231101 (880-35199-7). Elevated reporting limits (RLs) are provided.

Method 6020A: The following sample was diluted to bring the concentration of target analytes within the calibration range: MWD-14-W-20231101 (880-35199-11). Elevated reporting limits (RLs) are provided.

Method 6020A: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-29-W-20231101 (880-35199-1). Elevated reporting limits (RLs) are provided.

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

General Chemistry

Method 7196A: Sample MW-24-W-20231101 (880-35199-7) in batch 880-66034 did not indicate the appropriate pink color change for the presence of Cr (VI) . Instead, the sample displayed a golden yellow color following the addition of the color reagent, consistent with iron interference.

Sample MW-24-W-20231101 (880-35199-7) produced a false recovery of 0.005551 mg/L (response 0.0140), above the method MDL. Based on the analyst's observations, MW-24-W-20231101 (880-35199-7) was reported non-detect.

MW-24-W-20231101 (880-35199-7)

Method 7196A: Sample MWD-15-W-20231101 (880-35199-9) in batch 880-66034 did not indicate the appropriate pink color change for the presence of Cr (VI) . Instead, the sample displayed a golden yellow color following the addition of the color reagent, consistent with iron interference.

Sample MWD-15-W-20231101 (880-35199-9) produced a false recovery of 0.006546 mg/L (response 0.0160), above the method MDL. Based on the analyst's observations, MWD-15-W-20231101 (880-35199-9) was reported non-detect.

Released to Imaging: 4/30/2024 10:08:36 AM

Case Narrative

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Job ID: 880-35199-1 (Continued)

Laboratory: Eurofins Midland (Continued)

MWD-15-W-20231101 (880-35199-9)

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MW-29-W-20231101

Date Collected: 11/01/23 09:50
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0105**	**J**	0.0200	0.00408	mg/L			11/03/23 21:13	10
Toluene	<0.00367	U *1	0.0200	0.00367	mg/L			11/03/23 21:13	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			11/03/23 21:13	10
m-Xylene & p-Xylene	**0.0170**	**J**	0.0400	0.00629	mg/L			11/03/23 21:13	10
o-Xylene	**0.0114**	**J *1**	0.0200	0.00642	mg/L			11/03/23 21:13	10
Xylenes, Total	**0.0284**	**J *1**	0.0400	0.00642	mg/L			11/03/23 21:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*		*11/03/23 21:13*	*10*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*		*11/03/23 21:13*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0389**	**J**	0.0400	0.00657	mg/L			11/03/23 21:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3.42**	**J**	4.81	0.950	mg/L			11/06/23 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**3.42**	**J**	4.81	0.950	mg/L		11/06/23 12:50	11/06/23 19:55	1
Diesel Range Organics (Over C10-C28)	<0.950	U	4.81	0.950	mg/L		11/06/23 12:50	11/06/23 19:55	1
OII Range Organics (Over C28-C36)	<0.917	U	4.81	0.917	mg/L		11/06/23 12:50	11/06/23 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 135*	*11/06/23 12:50*	*11/06/23 19:55*	*1*
o-Terphenyl	*112*		*70 - 135*	*11/06/23 12:50*	*11/06/23 19:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**315**		0.500	0.250	mg/L			11/07/23 03:40	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00286**	**J**	0.00400	0.000690	mg/L		11/07/23 10:00	11/08/23 01:10	1
Barium	**6.71**		0.0800	0.0268	mg/L		11/07/23 10:00	11/08/23 15:03	20
Chromium	<0.000560	U	0.00400	0.000560	mg/L		11/07/23 10:00	11/08/23 01:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1650**		20.0	20.0	mg/L			11/06/23 09:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	**0.0115**		0.0100	0.00270	mg/L			11/02/23 08:38	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MW-30-W-20231101

Date Collected: 11/01/23 10:15
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00408	U	0.0200	0.00408	mg/L			11/03/23 21:38	10
Toluene	<0.00367	U *1	0.0200	0.00367	mg/L			11/03/23 21:38	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			11/03/23 21:38	10
m-Xylene & p-Xylene	<0.00629	U	0.0400	0.00629	mg/L			11/03/23 21:38	10
o-Xylene	<0.00642	U *1	0.0200	0.00642	mg/L			11/03/23 21:38	10
Xylenes, Total	<0.00642	U *1	0.0400	0.00642	mg/L			11/03/23 21:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*		*11/03/23 21:38*	*10*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*11/03/23 21:38*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00657	U	0.0400	0.00657	mg/L			11/03/23 21:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.944	U	4.78	0.944	mg/L			11/06/23 20:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.944	U	4.78	0.944	mg/L		11/06/23 12:50	11/06/23 20:15	1
Diesel Range Organics (Over C10-C28)	<0.944	U	4.78	0.944	mg/L		11/06/23 12:50	11/06/23 20:15	1
OII Range Organics (Over C28-C36)	<0.911	U	4.78	0.911	mg/L		11/06/23 12:50	11/06/23 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 135*	*11/06/23 12:50*	*11/06/23 20:15*	*1*
o-Terphenyl	*114*		*70 - 135*	*11/06/23 12:50*	*11/06/23 20:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**286**		0.500	0.250	mg/L			11/07/23 04:05	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0108**	**J**	0.0200	0.00345	mg/L		11/06/23 09:30	11/06/23 15:31	5
Barium	**0.312**		0.0200	0.00671	mg/L		11/06/23 09:30	11/06/23 15:31	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 09:30	11/06/23 15:31	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1540**		20.0	20.0	mg/L			11/06/23 09:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 08:38	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MWD-12-W-20231101

Date Collected: 11/01/23 10:35
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00973**	**J**	0.0200	0.00408	mg/L			11/03/23 22:03	10
Toluene	**0.00385**	**J *1**	0.0200	0.00367	mg/L			11/03/23 22:03	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			11/03/23 22:03	10
m-Xylene & p-Xylene	<0.00629	U	0.0400	0.00629	mg/L			11/03/23 22:03	10
o-Xylene	<0.00642	U *1	0.0200	0.00642	mg/L			11/03/23 22:03	10
Xylenes, Total	<0.00642	U *1	0.0400	0.00642	mg/L			11/03/23 22:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*		*11/03/23 22:03*	*10*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*		*11/03/23 22:03*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0136**	**J**	0.0400	0.00657	mg/L			11/03/23 22:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1.31**	**J**	4.85	0.959	mg/L			11/06/23 20:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.959	U	4.85	0.959	mg/L		11/06/23 12:50	11/06/23 20:36	1
Diesel Range Organics (Over C10-C28)	**1.31**	**J**	4.85	0.959	mg/L		11/06/23 12:50	11/06/23 20:36	1
OII Range Organics (Over C28-C36)	<0.926	U	4.85	0.926	mg/L		11/06/23 12:50	11/06/23 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 135*	*11/06/23 12:50*	*11/06/23 20:36*	*1*
o-Terphenyl	*111*		*70 - 135*	*11/06/23 12:50*	*11/06/23 20:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1260**		5.00	2.50	mg/L			11/07/23 05:09	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0462**		0.0200	0.00345	mg/L		11/06/23 10:00	11/06/23 16:15	5
Barium	**0.317**		0.0200	0.00671	mg/L		11/06/23 10:00	11/06/23 16:15	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 10:00	11/06/23 16:15	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4780**		40.0	40.0	mg/L			11/06/23 09:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 08:38	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MWD-13-W-20231101

Date Collected: 11/01/23 10:55
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			11/03/23 20:21	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			11/03/23 20:21	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 20:21	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			11/03/23 20:21	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			11/03/23 20:21	1
Xylenes, Total	<0.000642	U *1	0.00400	0.000642	mg/L			11/03/23 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/03/23 20:21*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*		*11/03/23 20:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			11/03/23 20:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.953	U	4.82	0.953	mg/L			11/07/23 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.953	U	4.82	0.953	mg/L		11/06/23 12:50	11/07/23 15:18	1
Diesel Range Organics (Over C10-C28)	<0.953	U	4.82	0.953	mg/L		11/06/23 12:50	11/07/23 15:18	1
OII Range Organics (Over C28-C36)	<0.920	U	4.82	0.920	mg/L		11/06/23 12:50	11/07/23 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 135*	*11/06/23 12:50*	*11/07/23 15:18*	*1*
o-Terphenyl	*111*		*70 - 135*	*11/06/23 12:50*	*11/07/23 15:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**386**		0.500	0.250	mg/L			11/07/23 05:21	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0469**		0.00400	0.000690	mg/L		11/07/23 10:00	11/08/23 01:13	1
Barium	**0.133**		0.00400	0.00134	mg/L		11/07/23 10:00	11/08/23 01:13	1
Chromium	**0.00350**	**J**	0.00400	0.000560	mg/L		11/07/23 10:00	11/08/23 01:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**10400**		100	100	mg/L			11/06/23 09:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 08:38	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MW-26-W-20231101

Date Collected: 11/01/23 12:00
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.198**		0.0200	0.00408	mg/L			11/03/23 22:29	10
Toluene	<0.00367	U *1	0.0200	0.00367	mg/L			11/03/23 22:29	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			11/03/23 22:29	10
m-Xylene & p-Xylene	**0.0174**	**J**	0.0400	0.00629	mg/L			11/03/23 22:29	10
o-Xylene	**0.00857**	**J *1**	0.0200	0.00642	mg/L			11/03/23 22:29	10
Xylenes, Total	**0.0260**	**J *1**	0.0400	0.00642	mg/L			11/03/23 22:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*11/03/23 22:29*	*10*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*		*11/03/23 22:29*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.224**		0.0400	0.00657	mg/L			11/03/23 22:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**5.55**		4.97	0.981	mg/L			11/06/23 20:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1.77**	**J**	4.97	0.981	mg/L		11/06/23 12:50	11/06/23 20:56	1
Diesel Range Organics (Over C10-C28)	**3.78**	**J**	4.97	0.981	mg/L		11/06/23 12:50	11/06/23 20:56	1
OII Range Organics (Over C28-C36)	<0.947	U	4.97	0.947	mg/L		11/06/23 12:50	11/06/23 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 135*	*11/06/23 12:50*	*11/06/23 20:56*	*1*
o-Terphenyl	*112*		*70 - 135*	*11/06/23 12:50*	*11/06/23 20:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**133**		0.500	0.250	mg/L			11/06/23 18:47	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0586**		0.0200	0.00345	mg/L		11/06/23 10:00	11/06/23 16:31	5
Barium	**4.76**		0.200	0.0671	mg/L		11/06/23 10:00	11/06/23 16:50	50
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 10:00	11/06/23 16:31	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1300**		10.0	10.0	mg/L			11/06/23 09:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 08:38	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MW-11-W-20231101

Lab Sample ID: 880-35199-6

Date Collected: 11/01/23 13:00

Matrix: Water

Date Received: 11/02/23 08:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.552**		0.0200	0.00408	mg/L			11/03/23 22:54	10
Toluene	<0.00367	U *1	0.0200	0.00367	mg/L			11/03/23 22:54	10
Ethylbenzene	<0.00657	U	0.0200	0.00657	mg/L			11/03/23 22:54	10
m-Xylene & p-Xylene	**0.0731**		0.0400	0.00629	mg/L			11/03/23 22:54	10
o-Xylene	**0.00966**	**J *1**	0.0200	0.00642	mg/L			11/03/23 22:54	10
Xylenes, Total	**0.0828**	***1**	0.0400	0.00642	mg/L			11/03/23 22:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*11/03/23 22:54*	*10*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*		*11/03/23 22:54*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.635**		0.0400	0.00657	mg/L			11/03/23 22:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3.18**	**J**	4.64	0.918	mg/L			11/06/23 21:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**3.18**	**J**	4.64	0.918	mg/L		11/06/23 12:50	11/06/23 21:57	1
Diesel Range Organics (Over C10-C28)	<0.918	U	4.64	0.918	mg/L		11/06/23 12:50	11/06/23 21:57	1
OII Range Organics (Over C28-C36)	<0.886	U	4.64	0.886	mg/L		11/06/23 12:50	11/06/23 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 135*	*11/06/23 12:50*	*11/06/23 21:57*	*1*
o-Terphenyl	*104*		*70 - 135*	*11/06/23 12:50*	*11/06/23 21:57*	*1*

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0332**		0.0200	0.00345	mg/L		11/06/23 10:00	11/06/23 16:34	5
Barium	**1.69**		0.0200	0.00671	mg/L		11/06/23 10:00	11/06/23 16:34	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 10:00	11/06/23 16:34	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1210**		20.0	20.0	mg/L			11/06/23 09:34	1

Client Sample ID: MW-24-W-20231101

Lab Sample ID: 880-35199-7

Date Collected: 11/01/23 13:20

Matrix: Water

Date Received: 11/02/23 08:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**15.3**		0.200	0.0408	mg/L			11/05/23 08:37	100
Toluene	<0.0367	U	0.200	0.0367	mg/L			11/05/23 08:37	100
Ethylbenzene	**0.0834**	**J**	0.200	0.0657	mg/L			11/05/23 08:37	100
m-Xylene & p-Xylene	**0.0751**	**J**	0.400	0.0629	mg/L			11/05/23 08:37	100
o-Xylene	<0.0642	U	0.200	0.0642	mg/L			11/05/23 08:37	100

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MW-24-W-20231101

Lab Sample ID: 880-35199-7

Date Collected: 11/01/23 13:20

Matrix: Water

Date Received: 11/02/23 08:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	**0.0751**	**J**	0.400	0.0642	mg/L			11/05/23 08:37	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*11/05/23 08:37*	*100*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*		*11/05/23 08:37*	*100*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**15.5**		0.400	0.0657	mg/L			11/05/23 08:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**19.2**		4.66	0.920	mg/L			11/06/23 22:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**19.2**		4.66	0.920	mg/L		11/06/23 12:50	11/06/23 22:17	1
Diesel Range Organics (Over C10-C28)	<0.920	U	4.66	0.920	mg/L		11/06/23 12:50	11/06/23 22:17	1
OII Range Organics (Over C28-C36)	<0.888	U	4.66	0.888	mg/L		11/06/23 12:50	11/06/23 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 135*	*11/06/23 12:50*	*11/06/23 22:17*	*1*
o-Terphenyl	*112*		*70 - 135*	*11/06/23 12:50*	*11/06/23 22:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**241**		0.500	0.250	mg/L			11/07/23 05:46	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0306**		0.0200	0.00345	mg/L		11/06/23 10:00	11/06/23 16:36	5
Barium	**3.32**		0.200	0.0671	mg/L		11/06/23 10:00	11/06/23 16:52	50
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 10:00	11/06/23 16:36	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1560**		20.0	20.0	mg/L			11/06/23 09:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 08:38	1

Client Sample ID: MW-25-W-20231101

Lab Sample ID: 880-35199-8

Date Collected: 11/01/23 13:45

Matrix: Water

Date Received: 11/02/23 08:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.257**		0.00200	0.000408	mg/L			11/03/23 20:47	1
Toluene	**0.000531**	**J *1**	0.00200	0.000367	mg/L			11/03/23 20:47	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 20:47	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MW-25-W-20231101

Lab Sample ID: 880-35199-8
Matrix: Water
Date Collected: 11/01/23 13:45
Date Received: 11/02/23 08:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.00169	J	0.00400	0.000629	mg/L			11/03/23 20:47	1
o-Xylene	0.000928	J *1	0.00200	0.000642	mg/L			11/03/23 20:47	1
Xylenes, Total	0.00262	J *1	0.00400	0.000642	mg/L			11/03/23 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*		*11/03/23 20:47*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*		*11/03/23 20:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.260		0.00400	0.000657	mg/L			11/03/23 20:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1.16	J	4.72	0.932	mg/L			11/07/23 06:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1.16	J	4.72	0.932	mg/L		11/06/23 12:50	11/07/23 06:03	1
Diesel Range Organics (Over C10-C28)	<0.932	U	4.72	0.932	mg/L		11/06/23 12:50	11/07/23 06:03	1
OII Range Organics (Over C28-C36)	<0.900	U	4.72	0.900	mg/L		11/06/23 12:50	11/07/23 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 135*	*11/06/23 12:50*	*11/07/23 06:03*	*1*
o-Terphenyl	*105*		*70 - 135*	*11/06/23 12:50*	*11/07/23 06:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2030		5.00	2.50	mg/L			11/07/23 06:24	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00778	J	0.0200	0.00345	mg/L		11/06/23 10:00	11/06/23 16:38	5
Barium	1.17		0.0200	0.00671	mg/L		11/06/23 10:00	11/06/23 16:38	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 10:00	11/06/23 16:38	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	6660		100	100	mg/L			11/06/23 09:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 08:38	1

Client Sample ID: MWD-15-W-20231101

Lab Sample ID: 880-35199-9
Matrix: Water
Date Collected: 11/01/23 14:00
Date Received: 11/02/23 08:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00197	J	0.00200	0.000408	mg/L			11/05/23 06:34	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MWD-15-W-20231101

Date Collected: 11/01/23 14:00
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/05/23 06:34	1
Ethylbenzene	**0.00162**	**J F1 F2**	0.00200	0.000657	mg/L			11/05/23 06:34	1
m-Xylene & p-Xylene	**0.00282**	**J F1 F2**	0.00400	0.000629	mg/L			11/05/23 06:34	1
o-Xylene	**0.00255**	**F1 F2**	0.00200	0.000642	mg/L			11/05/23 06:34	1
Xylenes, Total	**0.00537**	**F1 F2**	0.00400	0.000642	mg/L			11/05/23 06:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/05/23 06:34*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*		*11/05/23 06:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00896**		0.00400	0.000657	mg/L			11/05/23 06:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.932	U	4.72	0.932	mg/L			11/07/23 06:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.932	U	4.72	0.932	mg/L		11/06/23 12:50	11/07/23 06:24	1
Diesel Range Organics (Over C10-C28)	<0.932	U	4.72	0.932	mg/L		11/06/23 12:50	11/07/23 06:24	1
OII Range Organics (Over C28-C36)	<0.900	U	4.72	0.900	mg/L		11/06/23 12:50	11/07/23 06:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 135*	*11/06/23 12:50*	*11/07/23 06:24*	*1*
o-Terphenyl	*106*		*70 - 135*	*11/06/23 12:50*	*11/07/23 06:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1010**		5.00	2.50	mg/L			11/07/23 06:49	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00647**	**J**	0.0200	0.00345	mg/L		11/06/23 10:00	11/06/23 16:41	5
Barium	**2.42**		0.0200	0.00671	mg/L		11/06/23 10:00	11/06/23 16:41	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 10:00	11/06/23 16:41	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**2860**		40.0	40.0	mg/L			11/06/23 09:41	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 08:38	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MW-17-W-20231101

Date Collected: 11/01/23 14:20
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			11/05/23 06:55	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/05/23 06:55	1
Ethylbenzene	**0.000812**	**J**	0.00200	0.000657	mg/L			11/05/23 06:55	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			11/05/23 06:55	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			11/05/23 06:55	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			11/05/23 06:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*11/05/23 06:55*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*		*11/05/23 06:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.000812**	**J**	0.00400	0.000657	mg/L			11/05/23 06:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<0.950	U	4.81	0.950	mg/L			11/07/23 06:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.950	U	4.81	0.950	mg/L		11/06/23 12:50	11/07/23 06:52	1
Diesel Range Organics (Over C10-C28)	<0.950	U	4.81	0.950	mg/L		11/06/23 12:50	11/07/23 06:52	1
OII Range Organics (Over C28-C36)	<0.917	U	4.81	0.917	mg/L		11/06/23 12:50	11/07/23 06:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 135*	*11/06/23 12:50*	*11/07/23 06:52*	*1*
o-Terphenyl	*110*		*70 - 135*	*11/06/23 12:50*	*11/07/23 06:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**751**		5.00	2.50	mg/L			11/07/23 07:40	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00839**		0.00400	0.000690	mg/L		11/07/23 10:00	11/08/23 01:15	1
Barium	**0.100**		0.00400	0.00134	mg/L		11/07/23 10:00	11/08/23 01:15	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		11/07/23 10:00	11/08/23 01:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**3270**		40.0	40.0	mg/L			11/06/23 09:41	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 09:48	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MWD-14-W-20231101

Date Collected: 11/01/23 14:45
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.53**		0.0200	0.00408	mg/L			11/14/23 01:39	10
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/05/23 07:15	1
Ethylbenzene	**0.104**		0.00200	0.000657	mg/L			11/05/23 07:15	1
m-Xylene & p-Xylene	**0.00747**		0.00400	0.000629	mg/L			11/05/23 07:15	1
o-Xylene	**0.00135**	**J**	0.00200	0.000642	mg/L			11/05/23 07:15	1
Xylenes, Total	**0.00882**		0.00400	0.000642	mg/L			11/05/23 07:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*11/05/23 07:15*	*1*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*		*11/05/23 07:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.64**		0.00400	0.000657	mg/L			11/14/23 01:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2.66**	**J**	4.89	0.965	mg/L			11/07/23 07:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2.66**	**J**	4.89	0.965	mg/L		11/06/23 12:50	11/07/23 07:12	1
Diesel Range Organics (Over C10-C28)	<0.965	U	4.89	0.965	mg/L		11/06/23 12:50	11/07/23 07:12	1
OII Range Organics (Over C28-C36)	<0.932	U	4.89	0.932	mg/L		11/06/23 12:50	11/07/23 07:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 135*	*11/06/23 12:50*	*11/07/23 07:12*	*1*
o-Terphenyl	*112*		*70 - 135*	*11/06/23 12:50*	*11/07/23 07:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**474**		5.00	2.50	mg/L			11/07/23 08:05	10

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000690	U	0.00400	0.000690	mg/L		11/07/23 10:00	11/08/23 01:17	1
Barium	**0.689**		0.0400	0.0134	mg/L		11/07/23 10:00	11/08/23 01:26	10
Chromium	**0.000775**	**J**	0.00400	0.000560	mg/L		11/07/23 10:00	11/08/23 01:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4220**		40.0	40.0	mg/L			11/06/23 09:41	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 09:48	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: DUP-02-W-20231101

Date Collected: 11/01/23 14:45
Date Received: 11/02/23 08:16

Lab Sample ID: 880-35199-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.52**		0.0200	0.00408	mg/L			11/14/23 01:59	10
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/05/23 07:36	1
Ethylbenzene	**0.0974**		0.00200	0.000657	mg/L			11/05/23 07:36	1
m-Xylene & p-Xylene	**0.00827**		0.00400	0.000629	mg/L			11/05/23 07:36	1
o-Xylene	**0.00169**	**J**	0.00200	0.000642	mg/L			11/05/23 07:36	1
Xylenes, Total	**0.00996**		0.00400	0.000642	mg/L			11/05/23 07:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*		*11/05/23 07:36*	*1*
1,4-Difluorobenzene (Surr)	*141*	*S1+*	*70 - 130*		*11/05/23 07:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.63**		0.00400	0.000657	mg/L			11/14/23 01:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2.43**	**J**	4.75	0.938	mg/L			11/07/23 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2.43**	**J**	4.75	0.938	mg/L		11/06/23 12:50	11/07/23 07:33	1
Diesel Range Organics (Over C10-C28)	<0.938	U	4.75	0.938	mg/L		11/06/23 12:50	11/07/23 07:33	1
OII Range Organics (Over C28-C36)	<0.905	U	4.75	0.905	mg/L		11/06/23 12:50	11/07/23 07:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 135*	*11/06/23 12:50*	*11/07/23 07:33*	*1*
o-Terphenyl	*107*		*70 - 135*	*11/06/23 12:50*	*11/07/23 07:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**446**		0.500	0.250	mg/L			11/04/23 10:52	1

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00345	U	0.0200	0.00345	mg/L		11/06/23 10:00	11/06/23 16:43	5
Barium	**0.871**		0.0200	0.00671	mg/L		11/06/23 10:00	11/06/23 16:43	5
Chromium	<0.00280	U	0.0200	0.00280	mg/L		11/06/23 10:00	11/06/23 16:43	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**4260**		40.0	40.0	mg/L			11/06/23 09:41	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 09:48	1

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
880-34963-A-2 MB	Method Blank	99	90
880-35199-1	MW-29-W-20231101	118	101
880-35199-2	MW-30-W-20231101	76	98
880-35199-3	MWD-12-W-20231101	126	107
880-35199-4	MWD-13-W-20231101	94	77
880-35199-5	MW-26-W-20231101	119	117
880-35199-6	MW-11-W-20231101	89	92
880-35199-7	MW-24-W-20231101	92	121
880-35199-8	MW-25-W-20231101	138 S1+	106
880-35199-9	MWD-15-W-20231101	94	89
880-35199-9 MS	MWD-15-W-20231101	121	107
880-35199-9 MSD	MWD-15-W-20231101	106	106
880-35199-10	MW-17-W-20231101	86	104
880-35199-11	MWD-14-W-20231101	82	127
880-35199-11 MS	MWD-14-W-20231101	103	115
880-35199-11 MSD	MWD-14-W-20231101	109	108
880-35199-12	DUP-02-W-20231101	76	141 S1+
LCS 880-66129/3	Lab Control Sample	110	102
LCS 880-66213/34	Lab Control Sample	94	112
LCS 880-66808/34	Lab Control Sample	110	109
LCSD 880-66129/4	Lab Control Sample Dup	91	82
LCSD 880-66213/35	Lab Control Sample Dup	99	111
LCSD 880-66808/35	Lab Control Sample Dup	110	100
MB 880-66129/8	Method Blank	54 S1-	88
MB 880-66189/5-A	Method Blank	111	142 S1+
MB 880-66213/39	Method Blank	116	148 S1+
MB 880-66805/5-A	Method Blank	110	145 S1+
MB 880-66808/39	Method Blank	120	134 S1+

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-135)	OTPH1 (70-135)
880-35199-1	MW-29-W-20231101	95	112
880-35199-2	MW-30-W-20231101	97	114
880-35199-3	MWD-12-W-20231101	92	111
880-35199-4	MWD-13-W-20231101	97	111
880-35199-5	MW-26-W-20231101	94	112
880-35199-6	MW-11-W-20231101	88	104
880-35199-7	MW-24-W-20231101	95	112
880-35199-8	MW-25-W-20231101	91	105
880-35199-9	MWD-15-W-20231101	91	106
880-35199-10	MW-17-W-20231101	93	110
880-35199-11	MWD-14-W-20231101	92	112

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)								
880-35199-12	DUP-02-W-20231101	89	107								
LCS 860-129667/2-A	Lab Control Sample	106	99								
LCSD 860-129667/3-A	Lab Control Sample Dup	109	101								
MB 860-129667/1-A	Method Blank	91	110								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-34963-A-2 MB
Matrix: Water
Analysis Batch: 66129

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			11/03/23 19:56	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/03/23 19:56	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 19:56	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			11/03/23 19:56	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			11/03/23 19:56	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			11/03/23 19:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*11/03/23 19:56*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*		*11/03/23 19:56*	*1*

Lab Sample ID: MB 880-66129/8
Matrix: Water
Analysis Batch: 66129

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			11/03/23 11:52	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/03/23 11:52	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/03/23 11:52	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			11/03/23 11:52	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			11/03/23 11:52	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			11/03/23 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*54*	*S1-*	*70 - 130*		*11/03/23 11:52*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*		*11/03/23 11:52*	*1*

Lab Sample ID: LCS 880-66129/3
Matrix: Water
Analysis Batch: 66129

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09054		mg/L		91	70 - 130
Toluene	0.100	0.1138		mg/L		114	70 - 130
Ethylbenzene	0.100	0.1123		mg/L		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2248		mg/L		112	70 - 130
o-Xylene	0.100	0.1158		mg/L		116	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-66129/4
Matrix: Water
Analysis Batch: 66129

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08827		mg/L		88	70 - 130	3	20

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-66129/4
Matrix: Water
Analysis Batch: 66129

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08827	*1	mg/L		88	70 - 130	25	20
Ethylbenzene			0.100	0.09527		mg/L		95	70 - 130	16	20
m-Xylene & p-Xylene			0.200	0.1848		mg/L		92	70 - 130	20	20
o-Xylene			0.100	0.08953	*1	mg/L		90	70 - 130	26	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*

Lab Sample ID: MB 880-66189/5-A
Matrix: Water
Analysis Batch: 66213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66189

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		11/03/23 16:30	11/04/23 19:30	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		11/03/23 16:30	11/04/23 19:30	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		11/03/23 16:30	11/04/23 19:30	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		11/03/23 16:30	11/04/23 19:30	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		11/03/23 16:30	11/04/23 19:30	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		11/03/23 16:30	11/04/23 19:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*11/03/23 16:30*	*11/04/23 19:30*	*1*
1,4-Difluorobenzene (Surr)	*142*	*S1+*	*70 - 130*	*11/03/23 16:30*	*11/04/23 19:30*	*1*

Lab Sample ID: MB 880-66213/39
Matrix: Water
Analysis Batch: 66213

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			11/05/23 06:06	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/05/23 06:06	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/05/23 06:06	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			11/05/23 06:06	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			11/05/23 06:06	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			11/05/23 06:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*		*11/05/23 06:06*	*1*
1,4-Difluorobenzene (Surr)	*148*	*S1+*	*70 - 130*		*11/05/23 06:06*	*1*

Lab Sample ID: LCS 880-66213/34
Matrix: Water
Analysis Batch: 66213

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09624		mg/L		96	70 - 130		
Toluene			0.100	0.07844		mg/L		78	70 - 130		

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-66213/34
Matrix: Water
Analysis Batch: 66213

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylbenzene			0.100	0.07836		mg/L		78	70 - 130		
m-Xylene & p-Xylene			0.200	0.1805		mg/L		90	70 - 130		
o-Xylene			0.100	0.08903		mg/L		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-66213/35
Matrix: Water
Analysis Batch: 66213

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09492		mg/L		95	70 - 130	1	20
Toluene			0.100	0.08547		mg/L		85	70 - 130	9	20
Ethylbenzene			0.100	0.08181		mg/L		82	70 - 130	4	20
m-Xylene & p-Xylene			0.200	0.1870		mg/L		94	70 - 130	4	20
o-Xylene			0.100	0.09205		mg/L		92	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 880-35199-9 MS
Matrix: Water
Analysis Batch: 66213

Client Sample ID: MWD-15-W-20231101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.00197	J	0.100	0.09461		mg/L		93	70 - 130		
Toluene	<0.000367	U	0.100	0.08121		mg/L		81	70 - 130		
Ethylbenzene	0.00162	J F1 F2	0.100	0.08851		mg/L		87	70 - 130		
m-Xylene & p-Xylene	0.00282	J F1 F2	0.200	0.2000		mg/L		99	70 - 130		
o-Xylene	0.00255	F1 F2	0.100	0.09738		mg/L		95	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-35199-9 MSD
Matrix: Water
Analysis Batch: 66213

Client Sample ID: MWD-15-W-20231101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.00197	J	0.100	0.08932		mg/L		87	70 - 130	6	25
Toluene	<0.000367	U	0.100	0.07179		mg/L		72	70 - 130	12	25
Ethylbenzene	0.00162	J F1 F2	0.100	0.06006	F1 F2	mg/L		58	70 - 130	38	25
m-Xylene & p-Xylene	0.00282	J F1 F2	0.200	0.1243	F1 F2	mg/L		61	70 - 130	47	25
o-Xylene	0.00255	F1 F2	0.100	0.06465	F1 F2	mg/L		62	70 - 130	40	25

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-66805/5-A
Matrix: Water
Analysis Batch: 66808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		11/13/23 08:45	11/13/23 13:30	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		11/13/23 08:45	11/13/23 13:30	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		11/13/23 08:45	11/13/23 13:30	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		11/13/23 08:45	11/13/23 13:30	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		11/13/23 08:45	11/13/23 13:30	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		11/13/23 08:45	11/13/23 13:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	11/13/23 08:45	11/13/23 13:30	1
1,4-Difluorobenzene (Surr)	145	S1+	70 - 130	11/13/23 08:45	11/13/23 13:30	1

Lab Sample ID: MB 880-66808/39
Matrix: Water
Analysis Batch: 66808

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			11/14/23 01:10	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/14/23 01:10	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/14/23 01:10	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			11/14/23 01:10	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			11/14/23 01:10	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			11/14/23 01:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130		11/14/23 01:10	1
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130		11/14/23 01:10	1

Lab Sample ID: LCS 880-66808/34
Matrix: Water
Analysis Batch: 66808

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1224		mg/L		122	70 - 130
Toluene	0.100	0.09522		mg/L		95	70 - 130
Ethylbenzene	0.100	0.09344		mg/L		93	70 - 130
m-Xylene & p-Xylene	0.200	0.2144		mg/L		107	70 - 130
o-Xylene	0.100	0.1027		mg/L		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-66808/35
Matrix: Water
Analysis Batch: 66808

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1134		mg/L		113	70 - 130	8	20
Toluene			0.100	0.09439		mg/L		94	70 - 130	1	20
Ethylbenzene			0.100	0.09845		mg/L		98	70 - 130	5	20
m-Xylene & p-Xylene			0.200	0.2200		mg/L		110	70 - 130	3	20
o-Xylene			0.100	0.09950		mg/L		100	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-35199-11 MS
Matrix: Water
Analysis Batch: 66808

Client Sample ID: MWD-14-W-20231101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	1.53		1.00	2.781		mg/L		125	70 - 130		
Toluene	<0.00367	U	1.00	0.9234		mg/L		92	70 - 130		
Ethylbenzene	0.150		1.00	1.101		mg/L		95	70 - 130		
m-Xylene & p-Xylene	0.0168	J	2.00	2.062		mg/L		102	70 - 130		
o-Xylene	<0.00642	U	1.00	0.9318		mg/L		93	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: 880-35199-11 MSD
Matrix: Water
Analysis Batch: 66808

Client Sample ID: MWD-14-W-20231101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	1.53		1.00	2.668		mg/L		114	70 - 130	4	25
Toluene	<0.00367	U	1.00	0.9548		mg/L		95	70 - 130	3	25
Ethylbenzene	0.150		1.00	1.100		mg/L		95	70 - 130	0	25
m-Xylene & p-Xylene	0.0168	J	2.00	2.251		mg/L		112	70 - 130	9	25
o-Xylene	<0.00642	U	1.00	1.078		mg/L		108	70 - 130	15	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-129667/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 129628 — **Prep Batch: 129667**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		11/06/23 12:50	11/06/23 19:35	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		11/06/23 12:50	11/06/23 19:35	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		11/06/23 12:50	11/06/23 19:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 135*	*11/06/23 12:50*	*11/06/23 19:35*	*1*
o-Terphenyl	*110*		*70 - 135*	*11/06/23 12:50*	*11/06/23 19:35*	*1*

Lab Sample ID: LCS 860-129667/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 129628 — **Prep Batch: 129667**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	99.9	83.70		mg/L		84	70 - 135
Diesel Range Organics (Over C10-C28)	99.9	98.48		mg/L		99	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 135*
o-Terphenyl	*99*		*70 - 135*

Lab Sample ID: LCSD 860-129667/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 129628 — **Prep Batch: 129667**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	99.9	82.88		mg/L		83	70 - 135	1	35
Diesel Range Organics (Over C10-C28)	99.9	98.93		mg/L		99	70 - 135	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 135*
o-Terphenyl	*101*		*70 - 135*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-129375/26 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 129375

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250	U	0.500	0.250	mg/L			11/03/23 15:28	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-129375/85
Matrix: Water
Analysis Batch: 129375

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250	U	0.500	0.250	mg/L			11/04/23 02:53	1

Lab Sample ID: LCS 860-129375/86
Matrix: Water
Analysis Batch: 129375

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.869		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-129375/87
Matrix: Water
Analysis Batch: 129375

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.760		mg/L		98	90 - 110	1	20

Lab Sample ID: LLCS 860-129375/7
Matrix: Water
Analysis Batch: 129375

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.3081	J	mg/L		62	50 - 150

Lab Sample ID: MB 860-129689/3
Matrix: Water
Analysis Batch: 129689

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250	U	0.500	0.250	mg/L			11/06/23 14:59	1

Lab Sample ID: LCS 860-129689/4
Matrix: Water
Analysis Batch: 129689

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.530		mg/L		95	90 - 110

Lab Sample ID: LCSD 860-129689/5
Matrix: Water
Analysis Batch: 129689

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.434		mg/L		94	90 - 110	1	20

Lab Sample ID: LLCS 860-129689/7
Matrix: Water
Analysis Batch: 129689

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.3777	J	mg/L		76	50 - 150

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-35199-5 MS
Matrix: Water
Analysis Batch: 129689

Client Sample ID: MW-26-W-20231101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	133		10.0	141.5	4	mg/L		84	90 - 110

Lab Sample ID: 880-35199-5 MSD
Matrix: Water
Analysis Batch: 129689

Client Sample ID: MW-26-W-20231101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	133		10.0	141.2	4	mg/L		81	90 - 110	0	15

Lab Sample ID: MB 860-129705/3
Matrix: Water
Analysis Batch: 129705

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250	U	0.500	0.250	mg/L			11/06/23 16:24	1

Lab Sample ID: MB 860-129705/39
Matrix: Water
Analysis Batch: 129705

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250	U	0.500	0.250	mg/L			11/07/23 02:24	1

Lab Sample ID: LCS 860-129705/40
Matrix: Water
Analysis Batch: 129705

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.940		mg/L		99	90 - 110

Lab Sample ID: LCSD 860-129705/41
Matrix: Water
Analysis Batch: 129705

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.899		mg/L		99	90 - 110	0	20

Lab Sample ID: LLCS 860-129705/7
Matrix: Water
Analysis Batch: 129705

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.4509	J	mg/L		90	50 - 150

Lab Sample ID: 880-35199-5 MS
Matrix: Water
Analysis Batch: 129705

Client Sample ID: MW-26-W-20231101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	138		10.0	144.2	4	mg/L		65	90 - 110

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-35199-5 MSD
Matrix: Water
Analysis Batch: 129705

Client Sample ID: MW-26-W-20231101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	138		10.0	144.0	4	mg/L		63	90 - 110	0	15

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-129601/1-A
Matrix: Water
Analysis Batch: 129721

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 129601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000690	U	0.00400	0.000690	mg/L		11/06/23 09:30	11/06/23 14:22	1
Barium	<0.00134	U	0.00400	0.00134	mg/L		11/06/23 09:30	11/06/23 14:22	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		11/06/23 09:30	11/06/23 14:22	1

Lab Sample ID: LCS 860-129601/2-A
Matrix: Water
Analysis Batch: 129721

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.09845		mg/L		98	80 - 120
Barium	0.100	0.09520		mg/L		95	80 - 120
Chromium	0.100	0.09973		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-129601/3-A
Matrix: Water
Analysis Batch: 129721

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 129601

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.100	0.09587		mg/L		96	80 - 120	3	20
Barium	0.100	0.09472		mg/L		95	80 - 120	1	20
Chromium	0.100	0.09840		mg/L		98	80 - 120	1	20

Lab Sample ID: MB 860-129632/1-A
Matrix: Water
Analysis Batch: 129721

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 129632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000690	U	0.00400	0.000690	mg/L		11/06/23 10:00	11/06/23 16:09	1
Barium	<0.00134	U	0.00400	0.00134	mg/L		11/06/23 10:00	11/06/23 16:09	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		11/06/23 10:00	11/06/23 16:09	1

Lab Sample ID: LCS 860-129632/2-A
Matrix: Water
Analysis Batch: 129721

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129632

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.09575		mg/L		96	80 - 120
Barium	0.100	0.1005		mg/L		100	80 - 120
Chromium	0.100	0.09766		mg/L		98	80 - 120

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-129632/3-A
Matrix: Water
Analysis Batch: 129721

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 129632

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic			0.100	0.09705		mg/L		97	80 - 120	1	20
Barium			0.100	0.09904		mg/L		99	80 - 120	1	20
Chromium			0.100	0.09737		mg/L		97	80 - 120	0	20

Lab Sample ID: MB 860-129836/1-A
Matrix: Water
Analysis Batch: 130104

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 129836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000690	U	0.00400	0.000690	mg/L		11/07/23 10:00	11/08/23 00:22	1
Barium	<0.00134	U	0.00400	0.00134	mg/L		11/07/23 10:00	11/08/23 00:22	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		11/07/23 10:00	11/08/23 00:22	1

Lab Sample ID: LCS 860-129836/2-A
Matrix: Water
Analysis Batch: 130104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129836

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			0.100	0.09409		mg/L		94	80 - 120		
Barium			0.100	0.09373		mg/L		94	80 - 120		
Chromium			0.100	0.09306		mg/L		93	80 - 120		

Lab Sample ID: LCSD 860-129836/3-A
Matrix: Water
Analysis Batch: 130104

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 129836

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic			0.100	0.09357		mg/L		94	80 - 120	1	20
Barium			0.100	0.09355		mg/L		94	80 - 120	0	20
Chromium			0.100	0.09289		mg/L		93	80 - 120	0	20

Lab Sample ID: 880-35199-3 MS
Matrix: Water
Analysis Batch: 129721

Client Sample ID: MWD-12-W-20231101
Prep Type: Dissolved
Prep Batch: 129632

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic	0.0462		0.100	0.1462		mg/L		100	75 - 125		
Barium	0.317		0.100	0.4239		mg/L		107	75 - 125		
Chromium	<0.00280	U	0.100	0.09841		mg/L		98	75 - 125		

Lab Sample ID: 880-35199-3 MSD
Matrix: Water
Analysis Batch: 129721

Client Sample ID: MWD-12-W-20231101
Prep Type: Dissolved
Prep Batch: 129632

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0462		0.100	0.1456		mg/L		99	75 - 125	0	20
Barium	0.317		0.100	0.4217		mg/L		105	75 - 125	1	20
Chromium	<0.00280	U	0.100	0.1030		mg/L		103	75 - 125	5	20

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 880-66034/3
Matrix: Water
Analysis Batch: 66034

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 08:38	1

Lab Sample ID: LCS 880-66034/4
Matrix: Water
Analysis Batch: 66034

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	0.0400	0.03989		mg/L		100	85 - 115

Lab Sample ID: LCSD 880-66034/5
Matrix: Water
Analysis Batch: 66034

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	0.0400	0.03989		mg/L		100	85 - 115	0	20

Lab Sample ID: MB 880-66133/3
Matrix: Water
Analysis Batch: 66133

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.00270	U	0.0100	0.00270	mg/L			11/02/23 09:48	1

Lab Sample ID: LCS 880-66133/4
Matrix: Water
Analysis Batch: 66133

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	0.0400	0.03889		mg/L		97	85 - 115

Lab Sample ID: LCSD 880-66133/5
Matrix: Water
Analysis Batch: 66133

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	0.0400	0.03889		mg/L		97	85 - 115	0	20

Lab Sample ID: 880-35199-2 MS
Matrix: Water
Analysis Batch: 66034

Client Sample ID: MW-30-W-20231101
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	<0.00270	U	0.200	0.2180		mg/L		109	85 - 115

Lab Sample ID: 880-35199-2 MSD
Matrix: Water
Analysis Batch: 66034

Client Sample ID: MW-30-W-20231101
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	<0.00270	U	0.200	0.2180		mg/L		109	85 - 115	0	20

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: 880-35199-10 MS
Matrix: Water
Analysis Batch: 66133

Client Sample ID: MW-17-W-20231101
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	<0.00270	U	0.200	0.2215		mg/L		111	85 - 115

Lab Sample ID: 880-35199-10 MSD
Matrix: Water
Analysis Batch: 66133

Client Sample ID: MW-17-W-20231101
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	<0.00270	U	0.200	0.2215		mg/L		111	85 - 115	0	20

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

Lab Sample ID: MB 860-129609/1
Matrix: Water
Analysis Batch: 129609

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00	mg/L			11/06/23 09:34	1

Lab Sample ID: LCS 860-129609/2
Matrix: Water
Analysis Batch: 129609

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	961.0		mg/L		96	80 - 120

Lab Sample ID: LCSD 860-129609/3
Matrix: Water
Analysis Batch: 129609

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1008		mg/L		101	80 - 120	5	10

Lab Sample ID: LLCS 860-129609/26
Matrix: Water
Analysis Batch: 129609

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	<5.00	U	mg/L		60	50 - 150

Lab Sample ID: MB 860-129612/1
Matrix: Water
Analysis Batch: 129612

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00	mg/L			11/06/23 09:41	1

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 860-129612/2
Matrix: Water
Analysis Batch: 129612

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1009		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-129612/3
Matrix: Water
Analysis Batch: 129612

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1032		mg/L		103	80 - 120	2	10

Lab Sample ID: LLCS 860-129612/26
Matrix: Water
Analysis Batch: 129612

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	<5.00	U	mg/L		60	50 - 150

Lab Sample ID: 880-35199-9 DU
Matrix: Water
Analysis Batch: 129612

Client Sample ID: MWD-15-W-20231101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	2860		2932		mg/L		2	10

Lab Sample ID: 880-35199-10 DU
Matrix: Water
Analysis Batch: 129612

Client Sample ID: MW-17-W-20231101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	3270		3576		mg/L		9	10

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 66129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-1	MW-29-W-20231101	Total/NA	Water	8021B	
880-35199-2	MW-30-W-20231101	Total/NA	Water	8021B	
880-35199-3	MWD-12-W-20231101	Total/NA	Water	8021B	
880-35199-4	MWD-13-W-20231101	Total/NA	Water	8021B	
880-35199-5	MW-26-W-20231101	Total/NA	Water	8021B	
880-35199-6	MW-11-W-20231101	Total/NA	Water	8021B	
880-35199-8	MW-25-W-20231101	Total/NA	Water	8021B	
880-34963-A-2 MB	Method Blank	Total/NA	Water	8021B	
MB 880-66129/8	Method Blank	Total/NA	Water	8021B	
LCS 880-66129/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-66129/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Prep Batch: 66189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-66189/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 66213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-7	MW-24-W-20231101	Total/NA	Water	8021B	
880-35199-9	MWD-15-W-20231101	Total/NA	Water	8021B	
880-35199-10	MW-17-W-20231101	Total/NA	Water	8021B	
880-35199-11	MWD-14-W-20231101	Total/NA	Water	8021B	
880-35199-12	DUP-02-W-20231101	Total/NA	Water	8021B	
MB 880-66189/5-A	Method Blank	Total/NA	Water	8021B	66189
MB 880-66213/39	Method Blank	Total/NA	Water	8021B	
LCS 880-66213/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-66213/35	Lab Control Sample Dup	Total/NA	Water	8021B	
880-35199-9 MS	MWD-15-W-20231101	Total/NA	Water	8021B	
880-35199-9 MSD	MWD-15-W-20231101	Total/NA	Water	8021B	

Analysis Batch: 66301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-1	MW-29-W-20231101	Total/NA	Water	Total BTEX	
880-35199-2	MW-30-W-20231101	Total/NA	Water	Total BTEX	
880-35199-3	MWD-12-W-20231101	Total/NA	Water	Total BTEX	
880-35199-4	MWD-13-W-20231101	Total/NA	Water	Total BTEX	
880-35199-5	MW-26-W-20231101	Total/NA	Water	Total BTEX	
880-35199-6	MW-11-W-20231101	Total/NA	Water	Total BTEX	
880-35199-7	MW-24-W-20231101	Total/NA	Water	Total BTEX	
880-35199-8	MW-25-W-20231101	Total/NA	Water	Total BTEX	
880-35199-9	MWD-15-W-20231101	Total/NA	Water	Total BTEX	
880-35199-10	MW-17-W-20231101	Total/NA	Water	Total BTEX	
880-35199-11	MWD-14-W-20231101	Total/NA	Water	Total BTEX	
880-35199-12	DUP-02-W-20231101	Total/NA	Water	Total BTEX	

Prep Batch: 66805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-66805/5-A	Method Blank	Total/NA	Water	5035	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 66808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-11	MWD-14-W-20231101	Total/NA	Water	8021B	
880-35199-12	DUP-02-W-20231101	Total/NA	Water	8021B	
MB 880-66805/5-A	Method Blank	Total/NA	Water	8021B	66805
MB 880-66808/39	Method Blank	Total/NA	Water	8021B	
LCS 880-66808/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-66808/35	Lab Control Sample Dup	Total/NA	Water	8021B	
880-35199-11 MS	MWD-14-W-20231101	Total/NA	Water	8021B	
880-35199-11 MSD	MWD-14-W-20231101	Total/NA	Water	8021B	

GC Semi VOA

Analysis Batch: 101425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-1	MW-29-W-20231101	Total/NA	Water	8015 NM	
880-35199-2	MW-30-W-20231101	Total/NA	Water	8015 NM	
880-35199-3	MWD-12-W-20231101	Total/NA	Water	8015 NM	
880-35199-4	MWD-13-W-20231101	Total/NA	Water	8015 NM	
880-35199-5	MW-26-W-20231101	Total/NA	Water	8015 NM	
880-35199-6	MW-11-W-20231101	Total/NA	Water	8015 NM	
880-35199-7	MW-24-W-20231101	Total/NA	Water	8015 NM	
880-35199-8	MW-25-W-20231101	Total/NA	Water	8015 NM	
880-35199-9	MWD-15-W-20231101	Total/NA	Water	8015 NM	
880-35199-10	MW-17-W-20231101	Total/NA	Water	8015 NM	
880-35199-11	MWD-14-W-20231101	Total/NA	Water	8015 NM	
880-35199-12	DUP-02-W-20231101	Total/NA	Water	8015 NM	

Analysis Batch: 129628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-1	MW-29-W-20231101	Total/NA	Water	8015B NM	129667
880-35199-2	MW-30-W-20231101	Total/NA	Water	8015B NM	129667
880-35199-3	MWD-12-W-20231101	Total/NA	Water	8015B NM	129667
880-35199-5	MW-26-W-20231101	Total/NA	Water	8015B NM	129667
880-35199-6	MW-11-W-20231101	Total/NA	Water	8015B NM	129667
880-35199-7	MW-24-W-20231101	Total/NA	Water	8015B NM	129667
880-35199-8	MW-25-W-20231101	Total/NA	Water	8015B NM	129667
880-35199-9	MWD-15-W-20231101	Total/NA	Water	8015B NM	129667
880-35199-10	MW-17-W-20231101	Total/NA	Water	8015B NM	129667
880-35199-11	MWD-14-W-20231101	Total/NA	Water	8015B NM	129667
880-35199-12	DUP-02-W-20231101	Total/NA	Water	8015B NM	129667
MB 860-129667/1-A	Method Blank	Total/NA	Water	8015B NM	129667
LCS 860-129667/2-A	Lab Control Sample	Total/NA	Water	8015B NM	129667
LCSD 860-129667/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	129667

Prep Batch: 129667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-1	MW-29-W-20231101	Total/NA	Water	8015NM Aq Prep	
880-35199-2	MW-30-W-20231101	Total/NA	Water	8015NM Aq Prep	
880-35199-3	MWD-12-W-20231101	Total/NA	Water	8015NM Aq Prep	
880-35199-4	MWD-13-W-20231101	Total/NA	Water	8015NM Aq Prep	
880-35199-5	MW-26-W-20231101	Total/NA	Water	8015NM Aq Prep	
880-35199-6	MW-11-W-20231101	Total/NA	Water	8015NM Aq Prep	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 129667 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-7	MW-24-W-20231101	Total/NA	Water	8015NM Aq Prep	
880-35199-8	MW-25-W-20231101	Total/NA	Water	8015NM Aq Prep	
880-35199-9	MWD-15-W-20231101	Total/NA	Water	8015NM Aq Prep	
880-35199-10	MW-17-W-20231101	Total/NA	Water	8015NM Aq Prep	
880-35199-11	MWD-14-W-20231101	Total/NA	Water	8015NM Aq Prep	
880-35199-12	DUP-02-W-20231101	Total/NA	Water	8015NM Aq Prep	
MB 860-129667/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-129667/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-129667/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 129793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-4	MWD-13-W-20231101	Total/NA	Water	8015B NM	129667

HPLC/IC

Analysis Batch: 129375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-12	DUP-02-W-20231101	Total/NA	Water	300.0	
MB 860-129375/26	Method Blank	Total/NA	Water	300.0	
MB 860-129375/85	Method Blank	Total/NA	Water	300.0	
LCS 860-129375/86	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-129375/87	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-129375/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 129689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-5	MW-26-W-20231101	Total/NA	Water	300.0	
MB 860-129689/3	Method Blank	Total/NA	Water	300.0	
LCS 860-129689/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-129689/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-129689/7	Lab Control Sample	Total/NA	Water	300.0	
880-35199-5 MS	MW-26-W-20231101	Total/NA	Water	300.0	
880-35199-5 MSD	MW-26-W-20231101	Total/NA	Water	300.0	

Analysis Batch: 129705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-1	MW-29-W-20231101	Total/NA	Water	300.0	
880-35199-2	MW-30-W-20231101	Total/NA	Water	300.0	
880-35199-3 - DL	MWD-12-W-20231101	Total/NA	Water	300.0	
880-35199-4	MWD-13-W-20231101	Total/NA	Water	300.0	
880-35199-7	MW-24-W-20231101	Total/NA	Water	300.0	
880-35199-8 - DL	MW-25-W-20231101	Total/NA	Water	300.0	
880-35199-9 - DL	MWD-15-W-20231101	Total/NA	Water	300.0	
880-35199-10 - DL	MW-17-W-20231101	Total/NA	Water	300.0	
880-35199-11 - DL	MWD-14-W-20231101	Total/NA	Water	300.0	
MB 860-129705/3	Method Blank	Total/NA	Water	300.0	
MB 860-129705/39	Method Blank	Total/NA	Water	300.0	
LCS 860-129705/40	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-129705/41	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-129705/7	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 129705 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-5 MS	MW-26-W-20231101	Total/NA	Water	300.0	
880-35199-5 MSD	MW-26-W-20231101	Total/NA	Water	300.0	

Metals

Prep Batch: 129601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-2	MW-30-W-20231101	Dissolved	Water	3010A	
MB 860-129601/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-129601/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-129601/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Prep Batch: 129632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-3	MWD-12-W-20231101	Dissolved	Water	3010A	
880-35199-5	MW-26-W-20231101	Dissolved	Water	3010A	
880-35199-6	MW-11-W-20231101	Dissolved	Water	3010A	
880-35199-7	MW-24-W-20231101	Dissolved	Water	3010A	
880-35199-8	MW-25-W-20231101	Dissolved	Water	3010A	
880-35199-9	MWD-15-W-20231101	Dissolved	Water	3010A	
880-35199-12	DUP-02-W-20231101	Dissolved	Water	3010A	
MB 860-129632/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-129632/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-129632/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
880-35199-3 MS	MWD-12-W-20231101	Dissolved	Water	3010A	
880-35199-3 MSD	MWD-12-W-20231101	Dissolved	Water	3010A	

Analysis Batch: 129721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-2	MW-30-W-20231101	Dissolved	Water	6020A	129601
880-35199-3	MWD-12-W-20231101	Dissolved	Water	6020A	129632
880-35199-5	MW-26-W-20231101	Dissolved	Water	6020A	129632
880-35199-5	MW-26-W-20231101	Dissolved	Water	6020A	129632
880-35199-6	MW-11-W-20231101	Dissolved	Water	6020A	129632
880-35199-7	MW-24-W-20231101	Dissolved	Water	6020A	129632
880-35199-7	MW-24-W-20231101	Dissolved	Water	6020A	129632
880-35199-8	MW-25-W-20231101	Dissolved	Water	6020A	129632
880-35199-9	MWD-15-W-20231101	Dissolved	Water	6020A	129632
880-35199-12	DUP-02-W-20231101	Dissolved	Water	6020A	129632
MB 860-129601/1-A	Method Blank	Total/NA	Water	6020A	129601
MB 860-129632/1-A	Method Blank	Total/NA	Water	6020A	129632
LCS 860-129601/2-A	Lab Control Sample	Total/NA	Water	6020A	129601
LCS 860-129632/2-A	Lab Control Sample	Total/NA	Water	6020A	129632
LCSD 860-129601/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	129601
LCSD 860-129632/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	129632
880-35199-3 MS	MWD-12-W-20231101	Dissolved	Water	6020A	129632
880-35199-3 MSD	MWD-12-W-20231101	Dissolved	Water	6020A	129632

Prep Batch: 129836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-1	MW-29-W-20231101	Dissolved	Water	3010A	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Metals (Continued)

Prep Batch: 129836 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-4	MWD-13-W-20231101	Dissolved	Water	3010A	
880-35199-10	MW-17-W-20231101	Dissolved	Water	3010A	
880-35199-11	MWD-14-W-20231101	Dissolved	Water	3010A	
MB 860-129836/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-129836/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-129836/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 130104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-1	MW-29-W-20231101	Dissolved	Water	6020A	129836
880-35199-4	MWD-13-W-20231101	Dissolved	Water	6020A	129836
880-35199-10	MW-17-W-20231101	Dissolved	Water	6020A	129836
880-35199-11	MWD-14-W-20231101	Dissolved	Water	6020A	129836
880-35199-11	MWD-14-W-20231101	Dissolved	Water	6020A	129836
MB 860-129836/1-A	Method Blank	Total/NA	Water	6020A	129836
LCS 860-129836/2-A	Lab Control Sample	Total/NA	Water	6020A	129836
LCSD 860-129836/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	129836

Analysis Batch: 130132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-1	MW-29-W-20231101	Dissolved	Water	6020A	129836

General Chemistry

Analysis Batch: 66034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-1	MW-29-W-20231101	Dissolved	Water	7196A	
880-35199-2	MW-30-W-20231101	Dissolved	Water	7196A	
880-35199-3	MWD-12-W-20231101	Dissolved	Water	7196A	
880-35199-4	MWD-13-W-20231101	Dissolved	Water	7196A	
880-35199-5	MW-26-W-20231101	Dissolved	Water	7196A	
880-35199-7	MW-24-W-20231101	Dissolved	Water	7196A	
880-35199-8	MW-25-W-20231101	Dissolved	Water	7196A	
880-35199-9	MWD-15-W-20231101	Dissolved	Water	7196A	
MB 880-66034/3	Method Blank	Total/NA	Water	7196A	
LCS 880-66034/4	Lab Control Sample	Total/NA	Water	7196A	
LCSD 880-66034/5	Lab Control Sample Dup	Total/NA	Water	7196A	
880-35199-2 MS	MW-30-W-20231101	Dissolved	Water	7196A	
880-35199-2 MSD	MW-30-W-20231101	Dissolved	Water	7196A	

Analysis Batch: 66133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-10	MW-17-W-20231101	Dissolved	Water	7196A	
880-35199-11	MWD-14-W-20231101	Dissolved	Water	7196A	
880-35199-12	DUP-02-W-20231101	Dissolved	Water	7196A	
MB 880-66133/3	Method Blank	Total/NA	Water	7196A	
LCS 880-66133/4	Lab Control Sample	Total/NA	Water	7196A	
LCSD 880-66133/5	Lab Control Sample Dup	Total/NA	Water	7196A	
880-35199-10 MS	MW-17-W-20231101	Dissolved	Water	7196A	
880-35199-10 MSD	MW-17-W-20231101	Dissolved	Water	7196A	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

General Chemistry

Analysis Batch: 129609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-1	MW-29-W-20231101	Total/NA	Water	SM 2540C	
880-35199-2	MW-30-W-20231101	Total/NA	Water	SM 2540C	
880-35199-3	MWD-12-W-20231101	Total/NA	Water	SM 2540C	
880-35199-4	MWD-13-W-20231101	Total/NA	Water	SM 2540C	
880-35199-5	MW-26-W-20231101	Total/NA	Water	SM 2540C	
880-35199-6	MW-11-W-20231101	Total/NA	Water	SM 2540C	
880-35199-7	MW-24-W-20231101	Total/NA	Water	SM 2540C	
880-35199-8	MW-25-W-20231101	Total/NA	Water	SM 2540C	
MB 860-129609/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-129609/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-129609/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-129609/26	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 129612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35199-9	MWD-15-W-20231101	Total/NA	Water	SM 2540C	
880-35199-10	MW-17-W-20231101	Total/NA	Water	SM 2540C	
880-35199-11	MWD-14-W-20231101	Total/NA	Water	SM 2540C	
880-35199-12	DUP-02-W-20231101	Total/NA	Water	SM 2540C	
MB 860-129612/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-129612/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-129612/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-129612/26	Lab Control Sample	Total/NA	Water	SM 2540C	
880-35199-9 DU	MWD-15-W-20231101	Total/NA	Water	SM 2540C	
880-35199-10 DU	MW-17-W-20231101	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MW-29-W-20231101

Lab Sample ID: 880-35199-1
Matrix: Water
Date Collected: 11/01/23 09:50
Date Received: 11/02/23 08:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	5 mL	5 mL	66129	11/03/23 21:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66301	11/03/23 21:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/06/23 19:55	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.2 mL	3 mL	129667	11/06/23 12:50	TH	EET HOU
Total/NA	Analysis	8015B NM		1			129628	11/06/23 19:55	T1S	EET HOU
Total/NA	Analysis	300.0		1			129705	11/07/23 03:40	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129836	11/07/23 10:00	MD	EET HOU
Dissolved	Analysis	6020A		1			130104	11/08/23 01:10	SHZ	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129836	11/07/23 10:00	MD	EET HOU
Dissolved	Analysis	6020A		20			130132	11/08/23 15:03	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	66034	11/02/23 08:38	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	129609	11/06/23 09:34	SA	EET HOU

Client Sample ID: MW-30-W-20231101

Lab Sample ID: 880-35199-2
Matrix: Water
Date Collected: 11/01/23 10:15
Date Received: 11/02/23 08:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	5 mL	5 mL	66129	11/03/23 21:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66301	11/03/23 21:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/06/23 20:15	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.4 mL	3 mL	129667	11/06/23 12:50	TH	EET HOU
Total/NA	Analysis	8015B NM		1			129628	11/06/23 20:15	T1S	EET HOU
Total/NA	Analysis	300.0		1			129705	11/07/23 04:05	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129601	11/06/23 09:30	MD	EET HOU
Dissolved	Analysis	6020A		5			129721	11/06/23 15:31	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	66034	11/02/23 08:38	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	129609	11/06/23 09:34	SA	EET HOU

Client Sample ID: MWD-12-W-20231101

Lab Sample ID: 880-35199-3
Matrix: Water
Date Collected: 11/01/23 10:35
Date Received: 11/02/23 08:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	5 mL	5 mL	66129	11/03/23 22:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66301	11/03/23 22:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/06/23 20:36	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			30.9 mL	3 mL	129667	11/06/23 12:50	TH	EET HOU
Total/NA	Analysis	8015B NM		1			129628	11/06/23 20:36	T1S	EET HOU
Total/NA	Analysis	300.0	DL	10			129705	11/07/23 05:09	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129632	11/06/23 10:00	MD	EET HOU
Dissolved	Analysis	6020A		5			129721	11/06/23 16:15	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	66034	11/02/23 08:38	SMC	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MWD-12-W-20231101 — Lab Sample ID: 880-35199-3

Date Collected: 11/01/23 10:35 — **Matrix: Water**
Date Received: 11/02/23 08:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	129609	11/06/23 09:34	SA	EET HOU

Client Sample ID: MWD-13-W-20231101 — Lab Sample ID: 880-35199-4

Date Collected: 11/01/23 10:55 — **Matrix: Water**
Date Received: 11/02/23 08:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	66129	11/03/23 20:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66301	11/03/23 20:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/07/23 15:18	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.1 mL	3 mL	129667	11/06/23 12:50	TH	EET HOU
Total/NA	Analysis	8015B NM		1			129793	11/07/23 15:18	T1S	EET HOU
Total/NA	Analysis	300.0		1			129705	11/07/23 05:21	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129836	11/07/23 10:00	MD	EET HOU
Dissolved	Analysis	6020A		1			130104	11/08/23 01:13	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	66034	11/02/23 08:38	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	129609	11/06/23 09:34	SA	EET HOU

Client Sample ID: MW-26-W-20231101 — Lab Sample ID: 880-35199-5

Date Collected: 11/01/23 12:00 — **Matrix: Water**
Date Received: 11/02/23 08:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	5 mL	5 mL	66129	11/03/23 22:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66301	11/03/23 22:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/06/23 20:56	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			30.2 mL	3 mL	129667	11/06/23 12:50	TH	EET HOU
Total/NA	Analysis	8015B NM		1			129628	11/06/23 20:56	T1S	EET HOU
Total/NA	Analysis	300.0		1			129689	11/06/23 18:47	W1N	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129632	11/06/23 10:00	MD	EET HOU
Dissolved	Analysis	6020A		5			129721	11/06/23 16:31	SHZ	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129632	11/06/23 10:00	MD	EET HOU
Dissolved	Analysis	6020A		50			129721	11/06/23 16:50	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	66034	11/02/23 08:38	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	129609	11/06/23 09:34	SA	EET HOU

Client Sample ID: MW-11-W-20231101 — Lab Sample ID: 880-35199-6

Date Collected: 11/01/23 13:00 — **Matrix: Water**
Date Received: 11/02/23 08:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	5 mL	5 mL	66129	11/03/23 22:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66301	11/03/23 22:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/06/23 21:57	CZT	EET HOU

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MW-11-W-20231101
Lab Sample ID: 880-35199-6
Date Collected: 11/01/23 13:00
Matrix: Water
Date Received: 11/02/23 08:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Aq Prep			32.3 mL	3 mL	129667	11/06/23 12:50	TH	EET HOU
Total/NA	Analysis	8015B NM		1			129628	11/06/23 21:57	T1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129632	11/06/23 10:00	MD	EET HOU
Dissolved	Analysis	6020A		5			129721	11/06/23 16:34	SHZ	EET HOU
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	129609	11/06/23 09:34	SA	EET HOU

Client Sample ID: MW-24-W-20231101
Lab Sample ID: 880-35199-7
Date Collected: 11/01/23 13:20
Matrix: Water
Date Received: 11/02/23 08:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		100	5 mL	5 mL	66213	11/05/23 08:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66301	11/05/23 08:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/06/23 22:17	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.2 mL	3 mL	129667	11/06/23 12:50	TH	EET HOU
Total/NA	Analysis	8015B NM		1			129628	11/06/23 22:17	T1S	EET HOU
Total/NA	Analysis	300.0		1			129705	11/07/23 05:46	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129632	11/06/23 10:00	MD	EET HOU
Dissolved	Analysis	6020A		5			129721	11/06/23 16:36	SHZ	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129632	11/06/23 10:00	MD	EET HOU
Dissolved	Analysis	6020A		50			129721	11/06/23 16:52	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	66034	11/02/23 08:38	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	129609	11/06/23 09:34	SA	EET HOU

Client Sample ID: MW-25-W-20231101
Lab Sample ID: 880-35199-8
Date Collected: 11/01/23 13:45
Matrix: Water
Date Received: 11/02/23 08:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	66129	11/03/23 20:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66301	11/03/23 20:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/07/23 06:03	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.8 mL	3 mL	129667	11/06/23 12:50	TH	EET HOU
Total/NA	Analysis	8015B NM		1			129628	11/07/23 06:03	T1S	EET HOU
Total/NA	Analysis	300.0	DL	10			129705	11/07/23 06:24	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129632	11/06/23 10:00	MD	EET HOU
Dissolved	Analysis	6020A		5			129721	11/06/23 16:38	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	66034	11/02/23 08:38	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	129609	11/06/23 09:34	SA	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MWD-15-W-20231101

Lab Sample ID: 880-35199-9

Date Collected: 11/01/23 14:00
Matrix: Water
Date Received: 11/02/23 08:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	66213	11/05/23 06:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66301	11/05/23 06:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/07/23 06:24	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.8 mL	3 mL	129667	11/06/23 12:50	TH	EET HOU
Total/NA	Analysis	8015B NM		1			129628	11/07/23 06:24	T1S	EET HOU
Total/NA	Analysis	300.0	DL	10			129705	11/07/23 06:49	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129632	11/06/23 10:00	MD	EET HOU
Dissolved	Analysis	6020A		5			129721	11/06/23 16:41	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	66034	11/02/23 08:38	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	129612	11/06/23 09:41	SA	EET HOU

Client Sample ID: MW-17-W-20231101

Lab Sample ID: 880-35199-10

Date Collected: 11/01/23 14:20
Matrix: Water
Date Received: 11/02/23 08:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	66213	11/05/23 06:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66301	11/05/23 06:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/07/23 06:52	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.2 mL	3 mL	129667	11/06/23 12:50	TH	EET HOU
Total/NA	Analysis	8015B NM		1			129628	11/07/23 06:52	T1S	EET HOU
Total/NA	Analysis	300.0	DL	10			129705	11/07/23 07:40	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129836	11/07/23 10:00	MD	EET HOU
Dissolved	Analysis	6020A		1			130104	11/08/23 01:15	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	66133	11/02/23 09:48	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	129612	11/06/23 09:41	SA	EET HOU

Client Sample ID: MWD-14-W-20231101

Lab Sample ID: 880-35199-11

Date Collected: 11/01/23 14:45
Matrix: Water
Date Received: 11/02/23 08:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	66213	11/05/23 07:15	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	66808	11/14/23 01:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66301	11/14/23 01:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/07/23 07:12	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			30.7 mL	3 mL	129667	11/06/23 12:50	TH	EET HOU
Total/NA	Analysis	8015B NM		1			129628	11/07/23 07:12	T1S	EET HOU
Total/NA	Analysis	300.0	DL	10			129705	11/07/23 08:05	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129836	11/07/23 10:00	MD	EET HOU
Dissolved	Analysis	6020A		1			130104	11/08/23 01:17	SHZ	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129836	11/07/23 10:00	MD	EET HOU
Dissolved	Analysis	6020A		10			130104	11/08/23 01:26	SHZ	EET HOU

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Client Sample ID: MWD-14-W-20231101

Lab Sample ID: 880-35199-11
Matrix: Water
Date Collected: 11/01/23 14:45
Date Received: 11/02/23 08:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	7196A		1	97 mL	100 mL	66133	11/02/23 09:48	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	129612	11/06/23 09:41	SA	EET HOU

Client Sample ID: DUP-02-W-20231101

Lab Sample ID: 880-35199-12
Matrix: Water
Date Collected: 11/01/23 14:45
Date Received: 11/02/23 08:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	66213	11/05/23 07:36	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	66808	11/14/23 01:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66301	11/14/23 01:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/07/23 07:33	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.6 mL	3 mL	129667	11/06/23 12:50	TH	EET HOU
Total/NA	Analysis	8015B NM		1			129628	11/07/23 07:33	T1S	EET HOU
Total/NA	Analysis	300.0		1			129375	11/04/23 10:52	WP	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	129632	11/06/23 10:00	MD	EET HOU
Dissolved	Analysis	6020A		5			129721	11/06/23 16:43	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	66133	11/02/23 09:48	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	129612	11/06/23 09:41	SA	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-53	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)

Method Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
6020A	Metals (ICP/MS)	SW846	EET HOU
7196A	Chromium, Hexavalent	SW846	EET MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU
5030B	Purge and Trap	SW846	EET MID
8015NM Aq Prep	Microextraction	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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 HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Sample Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35199-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35199-1	MW-29-W-20231101	Water	11/01/23 09:50	11/02/23 08:16
880-35199-2	MW-30-W-20231101	Water	11/01/23 10:15	11/02/23 08:16
880-35199-3	MWD-12-W-20231101	Water	11/01/23 10:35	11/02/23 08:16
880-35199-4	MWD-13-W-20231101	Water	11/01/23 10:55	11/02/23 08:16
880-35199-5	MW-26-W-20231101	Water	11/01/23 12:00	11/02/23 08:16
880-35199-6	MW-11-W-20231101	Water	11/01/23 13:00	11/02/23 08:16
880-35199-7	MW-24-W-20231101	Water	11/01/23 13:20	11/02/23 08:16
880-35199-8	MW-25-W-20231101	Water	11/01/23 13:45	11/02/23 08:16
880-35199-9	MWD-15-W-20231101	Water	11/01/23 14:00	11/02/23 08:16
880-35199-10	MW-17-W-20231101	Water	11/01/23 14:20	11/02/23 08:16
880-35199-11	MWD-14-W-20231101	Water	11/01/23 14:45	11/02/23 08:16
880-35199-12	DUP-02-W-20231101	Water	11/01/23 14:45	11/02/23 08:16

Released to Imaging: 4/30/2024 10:08:36 AM
Received by OCD: 3/13/2024 8:36:42 PM

Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record

880-35199 Chain of Custody

Client Information	Sampler: Michael Rodriguez	Lab PM: Builes John	Carrier Tracking No(s):
Client Contact: ~~Sonja Zablenski~~ Nadia Cintron Franqui	Phone: 432 944-3725	E-Mail: John Builes@et.eurofinsus.com	State of Origin: NM
Company: ARCADIS US Inc	PWSID:		
Address: 1004 North Big Spring Suite 300	Due Date Requested:		
City: Midland	TAT Requested (days): Standard		
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No		
Phone: 713-340 8958	PO #: Purchase Order not required		
Email: Nadia.CintronFranqui@arcadis.com ~~sonja.zablenski@arcadis.com~~	WO #:		
Project Name: Eunice South	Project #: 88000209		
Site: Lea County, NM	SSOW#:		

Analysis Requested

Preservation Codes
A - HCL; B - NaOH; C Zn Acetate; D Nitric Acid; E NaHSO4; F MeOH; G Amchlor; H Ascorbic Acid; I Ice; J DI Water; K EDTA; L - EDA; M Hexane; N None; O AsNaO2; P - Na2O4S; Q Na2SO3; R Na2S2O3; S - H2SO4; T TSP Dodecahydrate; U Acetone; V MCAA; W pH 4-5; Y Trizma; Z other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	6020A - (MOD) Custom List	2540C_Calcd - Local Method	8015MOD_NM - (MOD) Full TPH	8021B - BTEX	7196A - Local Method	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	D	N	A	A	N		
MW-24-W-20231101	11/01/23	0950	G	Water	Y	N	X	X	X	X	X	X	9	
MW-30-W-20231101	11/01/23	1015	G	Water	Y	N	X	X	X	X	X	X	9	
MWD-12-W-20231101	11/01/23	1035	G	Water	Y	N	X	X	X	X	X	X	9	
MWD-13-W-20231101	11/01/23	1055	G	Water	Y	N	X	X	X	X	X	X	9	
MW-26-W-20231101	11/01/23	1200	G	Water	Y	N	X	X	X	X	X	X	9	
MW-11-W-20231101	11/01/23	1300	G	Water	Y	N		X	X	X	X		6	
MW-24-W-20231101	11/01/23	1320	G	Water	Y	N	X	X	X	X	X	X	9	
MW-25-W-20231101	11/01/23	1345	G	Water	Y	N	X	X	X	X	X	X	9	
MWD-15-W-20231101	11/01/23	1400	G	Water	Y	N	X	X	X	X	X	X	9	
MW-17-W-20231101	11/01/23	1420	G	Water	Y	N	X	X	X	X	X	X	9	
~~MW-14~~ MWD-14-W-20231101	11/01/23	1445	G	Water	Y	N	X	X	X	X	X	X	9	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II III IV Other (specify)

Special Instructions/QC Requirements: 0.6 | 6.8 | 7.2

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Michael Rodriguez	11/2/23 810	Arcadis		11/2/23 10:16	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks.

Ver: 01/16/2019

Released to Imaging: 4/30/2024 10:08:36 AM
Received by OCD: 3/13/2024 8:36:42 PM

Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins | Environment Testing

Loc: 880
35199

Client Information	Sampler: Michael Rodriguez	Lab PM: Builes John	Carrier Tracking No(s):	
Client Contact: ~~Sonja Zabienski~~ Nadja Cinton Franqui	Phone: 432-994-3725	E-Mail: John Builes@et.eurofinsus com	State of Origin: NM	
Company: ARCADIS US Inc	PWSID:			
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): Standard			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 713-340-4958	PO #: Purchase Order not required			
Email: Nadja.CintronFranqui@arcadis.com ~~sonja.zabienski@arcadis.com~~	WO #:			
Project Name: Eunice South	Project #: 88000209			
Site: Lea County NM	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	6020A - (MOD) Custom List	2540C_Calcd - Local Method	8015MOD_NM - (MOD) Full TPH	8021B - BTEX	7196A - Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	N	A	A	N		
DUP-02-W-20231101	11/01/23	1445	G	Water	N	N	X	X	X	X	X	X	9	
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements: 0.6 to 6 +2

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Michael Rodriguez	11/2/23 8:10	Arcadis		11/2/23 8:10	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No:

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

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Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone. 432-704-5440

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-8317 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 880-35199-1
Address: 4145 Greenbriar Dr	Due Date Requested: 11/8/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Eunice Project	Project #: 88000209			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ Chloride	6020A/FIELD_FLTRD (MOD) Custom List	2540C_Calcd	8015MOD_NM/8015NM_Aq_Prep Full TPH	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
MW-29-W-20231101 (880-35199-1)	11/1/23	09:50 Central		Water			X	X	X	X	X	5	
MW-30-W-20231101 (880-35199-2)	11/1/23	10:15 Central		Water			X	X	X	X	X	4	
MWD-12-W-20231101 (880-35199-3)	11/1/23	10:35 Central		Water			X	X	X	X	X	4	
MWD-13-W-20231101 (880-35199-4)	11/1/23	10:55 Central		Water			X	X	X	X	X	4	
MW-26-W-20231101 (880-35199-5)	11/1/23	12:00 Central		Water			X	X	X	X	X	4	
MW-11-W-20231101 (880-35199-6)	11/1/23	13:00 Central		Water				X	X	X	X	4	
MW-24-W-20231101 (880-35199-7)	11/1/23	13:20 Central		Water			X	X	X	X	X	4	
MW-25-W-20231101 (880-35199-8)	11/1/23	13:45 Central		Water			X	X	X	X	X	4	
MWD-15-W-20231101 (880-35199-9)	11/1/23	14:00 Central		Water			X	X	X	X	X	4	

Temp C/F -0.0 1.8 IR ID HOU-369
Corrected Temp. 1.8

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested. I II, III, IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Jeremiah Baker	Date/Time: 11/3/2023 9:40	Company EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

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11/14/2023
Received by OCD: 3/13/2024 8:36:42 PM
Released to Imaging: 4/30/2024 10:08:36 AM

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Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone: 432-704-5440

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-8326.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: Texas	Page: Page 4 of 4
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 880-35210-1
Address: 4145 Greenbriar Dr	Due Date Requested: 11/13/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Section 7 Angeles	Project #: 88001877			
Site:	SSOW#:			

Preservation Codes.

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A_REE/3010A	LAEPH/3510C	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Section 7 Angeles Composite (880-35210-1)	11/1/23	08:50 Central		Water					20	
Section 7 Angeles Grab (880-35210-2)	11/1/23	17:53 Central		Water					20	
Section 7 Angeles Composite (880-35210-3)	10/31/23	17:00 Central		Water					20	HW365
Section 7 Angeles Grab (880-35210-4)	10/31/23	17:01 Central		Water					20	3.1
Section 7 Angeles Extended Grab (880-35210-5)	11/2/23	08:50 Central		Water			X	X	15	3.1

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II III, IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by: Jeremiah Baker	Date/Time: 11/3/2023 9:40	Company	EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.
	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Received by OCD: 3/13/2024 8:36:42 PM
Page 53 of 57
11/14/2023
Released to Imaging: 4/30/2024 10:08:36 AM

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Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-8326.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: Texas	Page: Page 3 of 4
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 880-35210-1
Address: 4145 Greenbriar Dr	Due Date Requested: 11/13/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Section 7 Angeles	Project #: 88001877			
Site:	SSOW#:			

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify), Other

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D1429_08_A	SM2540B	SM2540E_VS	376.2	8270D_LL/3510C_LVI (MOD) Full List SVOCs	6010D/Filtration_ME (MOD) Custom List	5540C	8270D_SIM/3611 Polycyclic Aromatic Hydrocarbons (PAHs)	8015D_DAI_GI (MOD) Glycols	8015D_DAll Alcohols	8151A/8151A_AP Target Compound List	8081B/3611 Target Compound List	8082A/3611 Standard PCBs	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
Section 7 Angeles Composite (880-35210-1)	11/1/23	08.50 Central		Water			X	X	X	X	X	X								20	
Section 7 Angeles Grab (880-35210-2)	11/1/23	17:53 Central		Water			X	X	X	X	X	X								20	
Section 7 Angeles Composite (880-35210-3)	10/31/23	17:00 Central		Water			X	X	X	X	X	X								20	HW369
Section 7 Angeles Grab (880-35210-4)	10/31/23	17:01 Central		Water			X	X	X	X	X	X								20	3.1
Section 7 Angeles Extended Grab (880-35210-5)	11/2/23	08.50 Central		Water									X	X	X	X	X	X	X	15	3.1

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II III, IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Jeremiah Baker	Date/Time: 11/3/2023 9:40	Company EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Received by OCD: 3/13/2024 8:36:42 PM

Released to Imaging: 4/30/2024 10:08:36 AM

11/14/2023

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Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Builes, John	Carrier Tracking No(s):	COC No: 880-8326.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: Texas	Page: Page 2 of 4
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 880-35210-1
Address: 4145 Greenbriar Dr	Due Date Requested: 11/13/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email	WO #:			
Project Name: Section 7 Angeles	Project #: 88001877			
Site:	SSOW#:			

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify), Other

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM2340B	8260D/6030C (MOD) Full List	TX_1005_Calc	TX_1005/TX_1005_W_Prep Standard List	300_ORGFM_28D/ (MOD) Custom List	353.2	353.2_Nitrite	Nitrate_Calc	6010D/3010A (MOD) Custom List	6020B/3010A (MOD) Custom List	7470A/7470A_Prep Mercury	365.1_Ortho	360.1	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
Section 7 Angeles Composite (880-35210-1)	11/1/23	08:50 Central		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	20	
Section 7 Angeles Grab (880-35210-2)	11/1/23	17:53 Central		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	20	
Section 7 Angeles Composite (880-35210-3)	10/31/23	17:00 Central		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	20	HU365
Section 7 Angeles Grab (880-35210-4)	10/31/23	17:01 Central		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	20	31
Section 7 Angeles Extended Grab (880-35210-5)	11/2/23	08:50 Central		Water																15	31

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Jeremiah Baker	Date/Time: 11/3/2023 9:40	Company EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Received by OCD: 3/13/2024 8:36:42 PM

Released to Imaging: 4/30/2024 10:08:36 AM

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-35199-1
SDG Number: Lea County, NM

Login Number: 35199
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-35199-1
SDG Number: Lea County, NM

Login Number: 35199
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 11/03/23 12:29 PM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Andrew DeMarco
ARCADIS US Inc
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 11/13/2023 12:58:25 PM

JOB DESCRIPTION

Eunice Project
SDG NUMBER Lea County, NM

JOB NUMBER

880-35277-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 4/30/2024 10:08:36 AM

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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
11/13/2023 12:58:25 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: ARCADIS US Inc
Project/Site: Eunice Project

Laboratory Job ID: 880-35277-1
SDG: Lea County, NM

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

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.
¤	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)

Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

Job ID: 880-35277-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-35277-1

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

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

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

Receipt
The sample was received on 11/3/2023 8:42 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66189 and analytical batch 880-66213 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-66213 recovered under the lower control limit for Toluene, Ethylbenzene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: The surrogate recovery for the blank associated with analytical batch 880-66213 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: MWD-3-W-20231102 (880-35277-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

HPLC/IC
Method 300_ORGFM_28D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MWD-3-W-20231102 (880-35277-1). Elevated reporting limits (RLs) are provided.

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

Metals
Method 6020A: The following sample was diluted to bring the concentration of target analytes within the calibration range: MWD-3-W-20231102 (880-35277-1). Elevated reporting limits (RLs) are provided.

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

General Chemistry
Method 7196A: The following sample matrix has been determined to be reductive in nature, which has the potential to convert hexavalent chromium to trivalent chromium: MWD-3-W-20231102 (880-35277-1), (880-35277-A-1 MS) and (880-35277-A-1 MSD). This reducing matrix may cause a low bias in the matrix spike (MS) or post spike results. In order to recover the matrix spike (MS) and matrix spike duplicate (MSD), the sample was re-prepared and analyzed at a dilution.

Released to Imaging: 4/30/2024 10:08:36 AM

Case Narrative

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

Job ID: 880-35277-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 7196A: The following sample matrix has been determined to be reductive in nature, which has the potential to convert hexavalent chromium to trivalent chromium: MWD-3-W-20231102 (880-35277-1), (880-35277-A-1 MS) and (880-35277-A-1 MSD). This reducing matrix may cause a low bias in the matrix spike (MS) or post spike results. In order to recover the matrix spike (MS) and matrix spike duplicate (MSD), the sample was re-prepared and analyzed at a dilution.

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

Client Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

Client Sample ID: MWD-3-W-20231102

Date Collected: 11/02/23 11:00
Date Received: 11/03/23 08:42

Lab Sample ID: 880-35277-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.27**		0.0500	0.0102	mg/L			11/05/23 10:12	25
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/05/23 07:56	1
Ethylbenzene	**0.00244**		0.00200	0.000657	mg/L			11/05/23 07:56	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			11/05/23 07:56	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			11/05/23 07:56	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			11/05/23 07:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*11/05/23 07:56*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/05/23 10:12*	*25*
1,4-Difluorobenzene (Surr)	*155*	*S1+*	*70 - 130*		*11/05/23 07:56*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*11/05/23 10:12*	*25*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.27**		0.00400	0.000657	mg/L			11/05/23 10:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2.20**	**J**	4.93	0.975	mg/L			11/06/23 21:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**2.20**	**J**	4.93	0.975	mg/L		11/06/23 12:53	11/06/23 21:16	1
Diesel Range Organics (Over C10-C28)	<0.975	U	4.93	0.975	mg/L		11/06/23 12:53	11/06/23 21:16	1
OII Range Organics (Over C28-C36)	<0.941	U	4.93	0.941	mg/L		11/06/23 12:53	11/06/23 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 135*	*11/06/23 12:53*	*11/06/23 21:16*	*1*
o-Terphenyl	*107*		*70 - 135*	*11/06/23 12:53*	*11/06/23 21:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18100**		50.0	25.0	mg/L			11/06/23 23:25	100

Method: SW846 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0406**		0.00400	0.000690	mg/L		11/10/23 10:30	11/10/23 18:04	1
Barium	**3.12**		0.200	0.0671	mg/L		11/10/23 10:30	11/10/23 23:51	50
Chromium	**0.000899**	**J**	0.00400	0.000560	mg/L		11/10/23 10:30	11/10/23 18:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**32700**		200	200	mg/L			11/07/23 09:40	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI) (SW846 7196A)	<0.00270	U	0.0100	0.00270	mg/L			11/03/23 09:29	1

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-35277-1	MWD-3-W-20231102	93	155 S1+
880-35277-1	MWD-3-W-20231102	95	105
LCS 880-66213/34	Lab Control Sample	94	112
LCSD 880-66213/35	Lab Control Sample Dup	99	111
MB 880-66189/5-A	Method Blank	111	142 S1+
MB 880-66213/39	Method Blank	116	148 S1+

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-135)	(70-135)
880-35277-1	MWD-3-W-20231102	104	107
LCS 860-129669/2-A	Lab Control Sample	107	112
LCSD 860-129669/3-A	Lab Control Sample Dup	105	108
MB 860-129669/1-A	Method Blank	105	110

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66189/5-A
Matrix: Water
Analysis Batch: 66213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66189

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		11/03/23 16:30	11/04/23 19:30	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		11/03/23 16:30	11/04/23 19:30	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		11/03/23 16:30	11/04/23 19:30	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		11/03/23 16:30	11/04/23 19:30	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		11/03/23 16:30	11/04/23 19:30	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		11/03/23 16:30	11/04/23 19:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*11/03/23 16:30*	*11/04/23 19:30*	*1*
1,4-Difluorobenzene (Surr)	*142*	*S1+*	*70 - 130*	*11/03/23 16:30*	*11/04/23 19:30*	*1*

Lab Sample ID: MB 880-66213/39
Matrix: Water
Analysis Batch: 66213

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			11/05/23 06:06	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			11/05/23 06:06	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			11/05/23 06:06	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			11/05/23 06:06	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			11/05/23 06:06	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			11/05/23 06:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*		*11/05/23 06:06*	*1*
1,4-Difluorobenzene (Surr)	*148*	*S1+*	*70 - 130*		*11/05/23 06:06*	*1*

Lab Sample ID: LCS 880-66213/34
Matrix: Water
Analysis Batch: 66213

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09624		mg/L		96	70 - 130
Toluene	0.100	0.07844		mg/L		78	70 - 130
Ethylbenzene	0.100	0.07836		mg/L		78	70 - 130
m-Xylene & p-Xylene	0.200	0.1805		mg/L		90	70 - 130
o-Xylene	0.100	0.08903		mg/L		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-66213/35
Matrix: Water
Analysis Batch: 66213

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09492		mg/L		95	70 - 130	1	20

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-66213/35
Matrix: Water
Analysis Batch: 66213

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08547		mg/L		85	70 - 130	9	20
Ethylbenzene			0.100	0.08181		mg/L		82	70 - 130	4	20
m-Xylene & p-Xylene			0.200	0.1870		mg/L		94	70 - 130	4	20
o-Xylene			0.100	0.09205		mg/L		92	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-129669/1-A
Matrix: Water
Analysis Batch: 129621

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 129669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		11/06/23 12:53	11/06/23 20:56	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		11/06/23 12:53	11/06/23 20:56	1
OII Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		11/06/23 12:53	11/06/23 20:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 135*	*11/06/23 12:53*	*11/06/23 20:56*	*1*
o-Terphenyl	*110*		*70 - 135*	*11/06/23 12:53*	*11/06/23 20:56*	*1*

Lab Sample ID: LCS 860-129669/2-A
Matrix: Water
Analysis Batch: 129621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129669

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			99.9	88.77		mg/L		89	70 - 135
Diesel Range Organics (Over C10-C28)			99.9	97.59		mg/L		98	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 135*
o-Terphenyl	*112*		*70 - 135*

Lab Sample ID: LCSD 860-129669/3-A
Matrix: Water
Analysis Batch: 129621

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 129669

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			99.9	93.60		mg/L		94	70 - 135	5	35
Diesel Range Organics (Over C10-C28)			99.9	101.5		mg/L		102	70 - 135	4	35

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 860-129669/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 129621 — **Prep Batch: 129669**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 135
o-Terphenyl	108		70 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-129691/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 129691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250	U	0.500	0.250	mg/L			11/06/23 15:07	1

Lab Sample ID: LCS 860-129691/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 129691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.395		mg/L		94	90 - 110

Lab Sample ID: LCSD 860-129691/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 129691

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.405		mg/L		94	90 - 110	0	20

Lab Sample ID: LLCS 860-129691/7 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 129691

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.4760	J	mg/L		95	50 - 150

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-130475/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 130539 — **Prep Batch: 130475**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000690	U	0.00400	0.000690	mg/L		11/10/23 10:30	11/10/23 16:51	1
Barium	<0.00134	U	0.00400	0.00134	mg/L		11/10/23 10:30	11/10/23 16:51	1
Chromium	<0.000560	U	0.00400	0.000560	mg/L		11/10/23 10:30	11/10/23 16:51	1

Lab Sample ID: LCS 860-130475/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 130539 — **Prep Batch: 130475**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.09706		mg/L		97	80 - 120

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-130475/2-A
Matrix: Water
Analysis Batch: 130539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 130475

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Barium			0.100	0.09412		mg/L		94	80 - 120		
Chromium			0.100	0.09512		mg/L		95	80 - 120		

Lab Sample ID: LCSD 860-130475/3-A
Matrix: Water
Analysis Batch: 130539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 130475

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic			0.100	0.09493		mg/L		95	80 - 120	2	20
Barium			0.100	0.09513		mg/L		95	80 - 120	1	20
Chromium			0.100	0.09567		mg/L		96	80 - 120	1	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 880-66209/3
Matrix: Water
Analysis Batch: 66209

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.00270	U	0.0100	0.00270	mg/L			11/03/23 09:29	1

Lab Sample ID: LCS 880-66209/4
Matrix: Water
Analysis Batch: 66209

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)			0.0400	0.04287		mg/L		107	85 - 115		

Lab Sample ID: LCSD 880-66209/5
Matrix: Water
Analysis Batch: 66209

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)			0.0400	0.04287		mg/L		107	85 - 115	0	20

Lab Sample ID: 880-35277-1 MS
Matrix: Water
Analysis Batch: 66209

Client Sample ID: MWD-3-W-20231102
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cr (VI)	<0.0270	U	2.00	2.190		mg/L		110	85 - 115		

Lab Sample ID: 880-35277-1 MSD
Matrix: Water
Analysis Batch: 66209

Client Sample ID: MWD-3-W-20231102
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	<0.0270	U	2.00	2.190		mg/L		110	85 - 115	0	20

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

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

Lab Sample ID: MB 860-129825/1
Matrix: Water
Analysis Batch: 129825

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00	mg/L			11/07/23 09:40	1

Lab Sample ID: LCS 860-129825/2
Matrix: Water
Analysis Batch: 129825

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1003		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-129825/3
Matrix: Water
Analysis Batch: 129825

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1017		mg/L		102	80 - 120	1	10

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

GC VOA

Prep Batch: 66189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-66189/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 66213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35277-1	MWD-3-W-20231102	Total/NA	Water	8021B	
880-35277-1	MWD-3-W-20231102	Total/NA	Water	8021B	
MB 880-66189/5-A	Method Blank	Total/NA	Water	8021B	66189
MB 880-66213/39	Method Blank	Total/NA	Water	8021B	
LCS 880-66213/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-66213/35	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 66302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35277-1	MWD-3-W-20231102	Total/NA	Water	Total BTEX	

GC Semi VOA

Analysis Batch: 101425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35277-1	MWD-3-W-20231102	Total/NA	Water	8015 NM	

Analysis Batch: 129621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35277-1	MWD-3-W-20231102	Total/NA	Water	8015B NM	129669
MB 860-129669/1-A	Method Blank	Total/NA	Water	8015B NM	129669
LCS 860-129669/2-A	Lab Control Sample	Total/NA	Water	8015B NM	129669
LCSD 860-129669/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	129669

Prep Batch: 129669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35277-1	MWD-3-W-20231102	Total/NA	Water	8015NM Aq Prep	
MB 860-129669/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-129669/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-129669/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

HPLC/IC

Analysis Batch: 129691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35277-1	MWD-3-W-20231102	Total/NA	Water	300.0	
MB 860-129691/3	Method Blank	Total/NA	Water	300.0	
LCS 860-129691/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-129691/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-129691/7	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 130475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35277-1	MWD-3-W-20231102	Dissolved	Water	3010A	
MB 860-130475/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-130475/2-A	Lab Control Sample	Total/NA	Water	3010A	

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

Metals (Continued)

Prep Batch: 130475 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-130475/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 130539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35277-1	MWD-3-W-20231102	Dissolved	Water	6020A	130475
880-35277-1	MWD-3-W-20231102	Dissolved	Water	6020A	130475
MB 860-130475/1-A	Method Blank	Total/NA	Water	6020A	130475
LCS 860-130475/2-A	Lab Control Sample	Total/NA	Water	6020A	130475
LCSD 860-130475/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	130475

General Chemistry

Analysis Batch: 66209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35277-1	MWD-3-W-20231102	Dissolved	Water	7196A	
MB 880-66209/3	Method Blank	Total/NA	Water	7196A	
LCS 880-66209/4	Lab Control Sample	Total/NA	Water	7196A	
LCSD 880-66209/5	Lab Control Sample Dup	Total/NA	Water	7196A	
880-35277-1 MS	MWD-3-W-20231102	Dissolved	Water	7196A	
880-35277-1 MSD	MWD-3-W-20231102	Dissolved	Water	7196A	

Analysis Batch: 129825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35277-1	MWD-3-W-20231102	Total/NA	Water	SM 2540C	
MB 860-129825/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-129825/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-129825/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

Client Sample ID: MWD-3-W-20231102

Date Collected: 11/02/23 11:00
Date Received: 11/03/23 08:42

Lab Sample ID: 880-35277-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	66213	11/05/23 07:56	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	66213	11/05/23 10:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			66302	11/05/23 10:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			101425	11/06/23 21:16	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			30.4 mL	3 mL	129669	11/06/23 12:53	TH	EET HOU
Total/NA	Analysis	8015B NM		1			129621	11/06/23 21:16	T1S	EET HOU
Total/NA	Analysis	300.0		100			129691	11/06/23 23:25	A1S	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	130475	11/10/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		1			130539	11/10/23 18:04	SHZ	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	130475	11/10/23 10:30	MD	EET HOU
Dissolved	Analysis	6020A		50			130539	11/10/23 23:51	SHZ	EET HOU
Dissolved	Analysis	7196A		1	97 mL	100 mL	66209	11/03/23 09:29	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	5 mL	200 mL	129825	11/07/23 09:40	SA	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-53	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)

Method Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
6020A	Metals (ICP/MS)	SW846	EET HOU
7196A	Chromium, Hexavalent	SW846	EET MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU
5030B	Purge and Trap	SW846	EET MID
8015NM Aq Prep	Microextraction	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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 HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Sample Summary

Client: ARCADIS US Inc
Project/Site: Eunice Project

Job ID: 880-35277-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35277-1	MWD-3-W-20231102	Water	11/02/23 11:00	11/03/23 08:42

Released to Imaging: 4/30/2024 10:08:36 AM
Received by OCD: 3/13/2024 8:36:42 PM

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins Environment Testing

35277

Client Information	Sampler: Michael Rodriguez	Lab PM: Builes John	Carrier Tracking No(s):	COC No: 880-7147-1023 1
Client Contact: ~~Sonja Zabienski~~ Nadja Cintron Fraqui	Phone: 432-944-3725	E-Mail: John Builes@et.eurofinsus com	State of Origin: NM	Page: Page 1 of 1
Company: ARCADIS US Inc	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days): Standard			
State Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 439-489-2339	PO #: Purchase Order not required			
Email: Nadja.CintronFraqui@arcadis.com ~~sonja.zabienski@arcadis.com~~	WO #:			
Project Name: Eunice South	Project #: 88000209			
Site: Lea County, NM	SSOW#:			

Analysis Requested

Preservation Codes

A HCL; B - NaOH; C Zn Acetate; D Nitric Acid; E NaHSO4; F MeOH; G Amchlor; H Ascorbic Acid; I Ice; J DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q Na2SO3; R Na2S2O3; S H2SO4; T TSP Dodecahydrate; U Acetone; V MCAA; W - pH 4-5; Y Trizma; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	6020A - (MOD) Custom List	2540C_Calcd - Local Method	8015MOD_NM - (MOD) Full TPH	8021B - BTEX	7196A - Local Method	Total Number of containers	Special Instructions/Note
Preservation Code:							N	D	N	A	A	N		
MWD-3-W-20231102	11/02/23	1100	G	Water	N	N	X	X	X	X	X	X	4	
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										

880-35277 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:			
Relinquished by: Michael Rodriguez	Date/Time: 11/03/23	Company: Arcadis	Received by:	Date/Time: 11/3/23 842	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.4 | 1.8

Ver: 01/16/2019

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Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

880-35277 Chain of Custody

eurofins | Environment Testing

11/13/2023

Client Information (Sub Contract Lab)	Sampler	Lab PM: Builes, John	OC No: 30-8335.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Builes@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas	Job #: 880-35277 1
Address: 4145 Greenbriar Dr	Due Date Requested: 11/9/2023		
City: Stafford	TAT Requested (days):		
State, Zip: TX, 77477			
Phone: 281-240-4200(Tel)	PO #:		
Email:	WO #:		
Project Name: Eunice Project	Project #: 88000209		
Site:	SSOW#:		

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/FIELD_FLTRD (MOD) Custom List	300_ORGFM_28D/ Chloride	2540C_Calcd	8015MOD_NM/8016NM_Aq_Prep Full TPH	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
MWD-3-W-20231102 (880-35277 1)	11/2/23	Central		Water			X	X	X	X	X		

Temp C/F -0.0 3.6 IR ID HOU-369
Corrected Temp. 3.6

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under [illegible] e laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II, III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time:	Company	Received by: Sandra Jones	Date/Time: 11/4/23 829	Company Eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

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Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-35277-1
SDG Number: Lea County, NM

Login Number: 35277
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-35277-1
SDG Number: Lea County, NM

Login Number: 35277
List Number: 2
Creator: Torres, Sandra

List Source: Eurofins Houston
List Creation: 11/04/23 11:55 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

APPENDIX E

Historical Analytical Data (through 2017)

Appendix E
Historical Analytical Data (through 2017)
2021 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant

ARCADIS Design & Consultancy for natural and built assets

Chemical Name			Arsenic	Chromium	Chromium, Hexavalent	Iron	Manganese	Benzene	Ethylbenzene	Total Xylenes	DRO (C10-C28)	GRO (C6-C10)	Chloride	Total Dissolved Solids
Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
MW-11	2/17/2010	N	**0.054**	< 0.0150 U	--	--	--	**29000**	**710**	< 300 U	--	--	**337**	**1410**
	8/12/2010	N	**0.0565**	< 0.0150 U	--	--	--	**17000**	**420**	< 150 U	--	--	**406**	**1540**
	4/8/2011	N	**0.0558**	< 0.0150 U	--	--	--	**29000**	**480**	< 300 U	--	--	**425**	**1550**
	8/16/2011	N	**0.0450**	< 0.0150 U	--	--	--	**32000**	**430**	< 150 U	--	--	**422**	**1350**
	2/16/2012	N	**0.0309**	< 0.0150 U	--	--	--	**22000**	**420**	< 60 U	--	--	**260**	**1390**
	8/14/2012	N	**0.0368**	< 0.0150 U	--	--	--	**20000**	**760**	< 300 U	--	--	**304 J**	**1200**
	2/11/2013	N	**0.0315**	< 0.0150 U	--	--	--	**18000**	**560**	**32**	--	--	**192**	**1180**
	8/12/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	**14000**	**410**	< 150 U	--	--	**199**	**1150**
	2/7/2014	N	**0.0138 J**	< 0.0150 U	--	--	--	**22000**	**670**	**57 J**	--	--	**195**	**1050**
	8/13/2014	N	< 0.0200 UJ	< 0.0150 UJ	--	--	--	**30000**	**130**	< 100 U	--	--	**277**	**1340**
	2/11/2015	N	**0.0077 J**	< 0.0150 U	--	--	--	**16000**	**26 J**	**160**	--	--	**144**	**696**
	8/11/2015	N	< 0.0200 U	**0.0016 J**	--	--	--	**11000**	**33**	**190**	--	--	**97.8**	**798**
	4/1/2016	N	< 0.01 U	< 0.01 U	< 0.01 U	--	--	**6840**	< 40 U	**54.8**	< 1.41 U	**11.5**	**93.9**	**688**
	9/12/2016	N	< 0.00336 U	< 0.00136 U	--	**6.54**	**0.14**	**5890 D**	**15**	**91.2**	< 0.986 U	**7.72**	**71.1**	**888**
	4/6/2017	N	< 0.05 U	< 0.05 U	**0.0078 J**	**0.219 J**	**0.142 J**	**7020**	< 100 U	< 100 U	< 1.5 U	**1.67**	**128**	**1060**
	9/14/2017	N	**0.0118**	**0.000585 J**	< 0.01 U	--	--	**7210 J**	**49.8 J**	**259 J**	< 1.5 U	**2.54**	**91**	**900**
MW-13	2/9/2009	N	**0.0286**	< 0.0150 U	--	--	--	**5.5**	**3.3**	**4.6**	--	--	**374**	**1170**
	8/11/2009	N	**0.0246**	< 0.0150 U	--	--	--	< 5.0 U	< 1.0 U	< 3.0 U	--	--	**340**	**1160**
	2/12/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**562**	**1100**
	8/6/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**337**	**1010**
	4/6/2011	N	**0.0339**	< 0.0150 U	--	--	--	< 10 U	< 1.0 U	< 3.0 U	--	--	**426**	**1120**
	8/15/2011	N	**0.0235**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**454**	**1080**
	2/8/2012	N	**0.0276**	< 0.0150 U	--	--	--	**14**	< 1.0 U	< 3.0 U	--	--	**379**	**1090**
	8/9/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**439**	**1140**
	2/6/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**348 J**	**1000**
	8/6/2013	N	**0.0249**	< 0.0150 U	--	--	--	< 3.0 U	< 1.0 U	< 3.0 U	--	--	**372**	**1380**
	8/6/2013	FD	**0.0248**	< 0.0150 U	--	--	--	< 2.0 U	< 1.0 U	< 3.0 U	--	--	**377**	**1250**
	2/4/2014	N	**0.0137 J**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**830**	**1100**
	8/7/2014	N	**0.0291**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**366**	**1160**
	2/3/2015	N	**0.0120 J**	**0.0017 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**366**	**828**
	8/6/2015	N	**0.0151 J**	**0.0026 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**381**	**1040 J**
	3/30/2016	N	< 0.01 U	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**337**	**835**
	3/30/2016	FD	**0.014**	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**340**	**865**
	9/6/2016	N	**0.0166**	< 0.00136 U	< 0.01 U	< 0.00616 U	**0.0101 J**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	**329**	**1030**
	9/6/2016	FD	**0.0105**	< 0.00136 U	< 0.01 U	**0.00629 J**	**0.0103 J**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	**314**	**1130**
	4/5/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	< 1 U	**0.0182 J**	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**343**	**976**
	9/13/2017	N	**0.0145**	< 0.004 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**331**	**1170**
MW-14	2/9/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	**2.4**	< 3.0 U	--	--	**421**	**1280**
	8/6/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**429**	**1500**
	2/5/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**573**	**1550**
	8/4/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**485**	**1540**
	4/6/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**512**	**1460**
	8/8/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**595**	**1750**
	2/8/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**475**	**1620**
	8/9/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**553**	**1760**
	2/6/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**556 J**	**1510**
	8/6/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**580**	**1770**
	2/4/2014	N	**0.0105 J**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**597**	**1500**

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Appendix E
Historical Analytical Data (through 2017)
2021 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant

ARCADIS Design & Consultancy for natural and built assets

Chemical Name			Arsenic	Chromium	Chromium, Hexavalent	Iron	Manganese	Benzene	Ethylbenzene	Total Xylenes	DRO (C10-C28)	GRO (C6-C10)	Chloride	Total Dissolved Solids
Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
MW-14	8/7/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	558	1700 J
	8/7/2014	FD	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	530	1580
	2/3/2015	N	< 0.0200 U	0.0014 J	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	504	1260
	8/6/2015	N	0.0075 J	0.0023 J	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	475	1380 J
	3/30/2016	N	0.0139	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	488	1360
	9/6/2016	N	< 0.00336 U	< 0.00136 U	< 0.01 U	0.0263 J	0.831	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	465	1670
	4/5/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	< 1 U	0.835	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	489	1560
	9/13/2017	N	0.00699	< 0.004 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	486	1640
MW-15	2/9/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	6.1	3.7	3.2	--	--	2370	5250
	8/12/2009	N	0.0252	< 0.0150 U	--	--	--	3.3	< 1.0 U	< 3.0 U	--	--	2560	4810
	2/8/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	1970	4520
	8/9/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	1270	3230
	4/7/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	2.4	< 1.0 U	< 3.0 U	--	--	3310	4260
	8/9/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	16	< 1.0 U	< 3.0 U	--	--	1840	3820
	2/15/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	3.2	< 1.0 U	< 3.0 U	--	--	1020	3190
	2/15/2012	FD	< 0.0200 U	< 0.0150 U	--	--	--	3.2	< 1.0 U	< 3.0 U	--	--	778	3620
	8/13/2012	N	0.0203	< 0.0150 U	--	--	--	1.9	< 1.0 U	< 3.0 U	--	--	1540 J	3000
	2/7/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	1.4	< 1.0 U	< 3.0 U	--	--	1340 J	3250
	8/7/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	1.2	< 1.0 U	< 3.0 U	--	--	1320	3310
	2/6/2014	N	0.0106 J	< 0.0150 U	--	--	--	1.3	< 1.0 U	< 1.0 U	--	--	2610 J	3010
	8/14/2014	N	< 0.0200 UJ	< 0.0150 UJ	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	1340	3160
	2/10/2015	N	0.0169 J	0.0025 J	--	--	--	1.5	< 1.0 U	< 1.0 U	--	--	1150	2160
	8/13/2015	N	0.0141 J	0.0020 J	--	--	--	0.5 J	< 1.0 U	< 1.0 U	--	--	1180	2920
	3/30/2016	N	0.0181	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	1750	3160
	9/6/2016	N	< 0.00336 U	< 0.00136 U	< 0.01 U	0.00905 J	0.028	1.8 J	< 0.657 U	< 0.642 U	< 0.987 U	< 0.987 U	1780	4580
	4/5/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	< 1 U	0.0345 J	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	1960	2900
	9/13/2017	N	0.0124	0.000535 J	< 0.01 U	--	--	7.95	< 2 U	< 2 U	< 1.5 U	< 1.5 U	2040	4590
MW-16	2/9/2009	N	< 0.0200 U	0.138	--	--	--	1.3	3.6	3.2	--	--	1830	3790
	8/6/2009	N	< 0.0200 U	0.123	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	1570	3970
	2/8/2010	N	< 0.0200 U	0.109	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	1820	3750
	8/4/2010	N	< 0.0200 U	0.138	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	1840	3950
	4/7/2011	N	< 0.0200 U	0.114	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	1830	3380
	8/9/2011	N	< 0.0200 U	0.0936	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	1790	3230
	2/15/2012	N	< 0.0200 U	0.108	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	1270	3940
	8/13/2012	N	< 0.0200 U	0.101	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	1750 J	3530
	2/6/2013	N	< 0.0200 U	0.0965	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	1590 J	3450
	8/7/2013	N	< 0.0200 U	0.0783	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	1650	3790
	2/6/2014	N	0.0132 J	0.0952	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	1730 J	4200
	8/14/2014	N	< 0.0200 UJ	0.104 J	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	1560	3880
	2/10/2015	N	0.0169 J	0.104	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	1390	2760
	8/13/2015	N	0.0149 J	0.0817	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	1560	3480
	3/30/2016	N	0.0255	0.107	0.0946	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	2060	3220
	9/6/2016	N	< 0.00336 U	0.0625	0.0959	0.00979 J	< 0.000585 U	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	1750	4860
	4/5/2017	N	< 0.05 U	0.0955	0.106	< 1 U	< 0.1 U	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	1880	3810
	9/13/2017	N	0.0129	0.11	0.0957	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	1880	4230
MW-17	2/11/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	4.5	4.2	< 3.0 U	--	--	4160	8240
	8/11/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	3100	7680
	2/10/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	1260	3110

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Chemical Name			Arsenic	Chromium	Chromium, Hexavalent	Iron	Manganese	Benzene	Ethylbenzene	Total Xylenes	DRO (C10-C28)	GRO (C6-C10)	Chloride	Total Dissolved Solids
Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
MW-17	8/6/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	2910	7030
	4/7/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	697	2140
	8/10/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	3050	6270
	2/14/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	3950	10800
	8/13/2012	N	0.0226	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	5490 J	7580
	2/7/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	1820 J	4000
	8/7/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	3430	7280
	8/7/2013	FD	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	3310	7360
	2/5/2014	N	0.0110 J	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	0.2 J	--	--	2730	5640
	8/12/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	3120	6130
	2/6/2015	N	0.0109 J	0.0022 J	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	2050	2890
	8/12/2015	N	0.0095 J	0.0021 J	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	2220	5640
	3/31/2016	N	0.0127	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	3460	4180
	9/9/2016	N	0.00742 J	< 0.00136 U	--	0.154 J	0.504	< 0.408 U	< 0.657 U	< 0.642 U	< 0.987 U	< 0.987 U	2220	3740
	4/6/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	< 1 U	0.534 J	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	1750	3440
	9/13/2017	N	0.0141	< 0.004 U	< 0.01 U	--	--	< 2 UJ	< 2 UJ	< 2 UJ	< 1.5 U	< 1.5 U	603	3030
	9/13/2017	FD	0.0127	< 0.004 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	627	3450
MW-18	2/10/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	4.0	4.2	< 3.0 U	--	--	2570	4880
	8/10/2009	N	0.0246	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	1070	2740
	2/10/2010	N	0.0329	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	457	1440
	8/5/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	1340	2970
	4/7/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	1170	2280
	8/10/2011	N	0.0210	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	532	1510
	2/13/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	907	2250
	8/9/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	598	1580
	2/6/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	699 J	1540
	8/7/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	700	1620
	2/4/2014	N	0.0206 J	0.0016 J	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	474	1260
	8/6/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	533	1260
	2/4/2015	N	0.0191 J	0.0014 J	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	401	1080
	8/6/2015	N	0.0180 J	0.0027 J	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	406	1130
	4/1/2016	N	0.0218	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	284	906
	9/12/2016	N	0.0135	< 0.00136 U	--	< 0.00616 U	< 0.000585 U	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	287	964
	4/4/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	< 1 U	< 0.1 U	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	231	730
MW-19	8/10/2010	N	0.0484	< 0.0150 U	--	--	--	1300	83	52	--	--	4070	8300
	8/9/2012	N	0.0464	< 0.0150 U	--	--	--	1300 J	170 J	57 J	--	--	4050	8440
	8/9/2012	FD	0.0466	< 0.0150 U	--	--	--	1400 J	170 J	57 J	--	--	4360 J	8880
	2/8/2013	N	0.0494	< 0.0150 U	--	--	--	1300	150 J	58 J	--	--	4030	9000
	8/9/2013	N	0.0411	< 0.0150 U	--	--	--	1400	210 J	7.1 J	--	--	4080	8740
	2/10/2014	N	0.0270	< 0.0150 U	--	--	--	1000	160	36	--	--	4850	9720
MW-21	8/11/2010	N	0.0621	< 0.0150 U	--	--	--	510	140	22	--	--	834	2370
	8/14/2012	N	0.0562	< 0.0150 U	--	--	--	490	250	33	--	--	856 J	2320
	2/11/2013	N	0.0557	< 0.0150 U	--	--	--	340	230	11	--	--	857	2430
	8/9/2013	N	0.0294	< 0.0150 U	--	--	--	650 J	150 J	45 J	--	--	913 J	2030
	2/7/2014	N	0.0642	< 0.0150 U	--	--	--	130	190	9.9	--	--	945	2480
	2/7/2014	FD	0.0667	< 0.0150 U	--	--	--	130	190	9.8	--	--	853	2540

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Appendix E
Historical Analytical Data (through 2017)
2021 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant

Chemical Name			Arsenic	Chromium	Chromium, Hexavalent	Iron	Manganese	Benzene	Ethylbenzene	Total Xylenes	DRO (C10-C28)	GRO (C6-C10)	Chloride	Total Dissolved Solids
Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
MW-22	2/11/2009	N	**0.0508**	< 0.0150 U	--	--	--	**2700**	**66**	**43**	--	--	**6400**	**9840**
	8/13/2009	N	**0.0381**	< 0.0150 U	--	--	--	**3500**	**130**	< 30 U	--	--	**2990**	**6480**
	2/17/2010	N	**0.0363**	< 0.0150 U	--	--	--	**19000**	**260**	< 150 U	--	--	**2770**	**5520**
	8/10/2010	N	**0.0444**	< 0.0150 U	--	--	--	**18000**	**260**	< 150 U	--	--	**2150**	**5000**
	8/10/2010	FD	**0.0448**	< 0.0150 U	--	--	--	**18000**	**230**	< 150 U	--	--	**2420**	**4990**
	4/7/2011	N	**0.0581**	< 0.0150 U	--	--	--	**1900**	**36**	**3.2**	--	--	**6270**	**10500**
	8/11/2011	N	**0.0670**	< 0.0150 U	--	--	--	**7500**	**67**	< 60 U	--	--	**5120**	**8360**
	2/15/2012	N	**0.0242**	< 0.0150 U	--	--	--	**6800**	**6.9**	< 15 U	--	--	**10100**	**26600**
	8/13/2012	N	**0.0352**	< 0.0150 U	--	--	--	**8700**	**120**	**16**	--	--	**4660 J**	**6050**
	2/8/2013	N	**0.0285**	< 0.0150 U	--	--	--	**73**	**3.3**	< 8.0 U	--	--	**10500**	**20000**
	8/12/2013	N	**0.0200**	< 0.0150 U	--	--	--	**160**	**3.1**	**3.0**	--	--	**6840**	**13000**
	2/6/2014	N	**0.0175 J**	< 0.0150 U	--	--	--	**3400**	**39**	**8.1**	--	--	**12100**	**23700**
	8/13/2014	N	**0.0342 J**	< 0.0150 UJ	--	--	--	**7100**	**150**	**120**	--	--	**6540**	**10400**
	2/6/2015	N	**0.0194 J**	**0.0019 J**	--	--	--	**18000**	**200**	**51**	--	--	**3060**	**3720**
	8/12/2015	N	**0.0227**	**0.0020 J**	--	--	--	**15000**	**140**	**49**	--	--	**2570**	**6240**
	3/31/2016	N	**0.0367**	< 0.01 U	**0.0157**	--	--	**17100**	**205**	< 100 U	< 1.41 U	**23.1**	**2270**	**4800**
	9/9/2016	N	**0.0195**	< 0.00136 U	--	**8.22**	**0.0761**	**3090 D**	**3.05**	< 0.642 U	< 0.986 U	**3.51**	**3510**	**6160**
	4/4/2017	N	< 0.05 U	< 0.05 U	--	**0.267 J**	**0.0947 J**	**16700**	**624**	**668**	**1.62**	**2.35**	**2310**	**4050**
	4/7/2017	N	--	--	**0.0038 J**	--	--	--	--	--	--	--	--	--
MW-23	2/11/2009	N	**0.0524**	< 0.0150 U	--	--	--	**3.1**	**2.7**	< 3.0 U	--	--	**12100**	**21000**
	8/7/2009	N	**0.0566**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**8860**	**17800**
	2/9/2010	N	**0.0228**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**9770**	**17400**
	8/5/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**7960**	**14400**
	4/6/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**7640**	**13000**
	4/6/2011	FD	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**7660**	**12900**
	8/9/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**6360**	**11200**
	2/15/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1590**	**15000**
	8/14/2012	N	**0.0218**	< 0.0150 U	--	--	--	**13**	**2.0**	< 3.0 U	--	--	**8360 J**	**16000**
	2/7/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**8080 J**	**12000**
	8/8/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**10200 J**	**16300**
	2/6/2014	N	**0.0150 J**	**0.0029 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**9750**	**17300**
	8/12/2014	N	**0.0217**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**7610**	**12400**
	2/3/2015	N	**0.0154 J**	**0.0021 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**6740**	**10500**
	8/12/2015	N	**0.0226**	**0.0024 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**5680**	**13700**
	3/31/2016	N	**0.0275**	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**4590**	**8680**
	9/9/2016	N	< 0.00336 U	< 0.00136 U	--	**0.0175 J**	< 0.000585 U	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	**5570**	**10300**
	4/4/2017	N	< 0.05 U	< 0.05 U	--	< 1 U	< 0.1 U	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**4150**	**8040**
	4/7/2017	N	--	--	< 0.01 U	--	--	--	--	--	--	--	--	--
MW-24	2/18/2009	N	**0.0350**	< 0.0150 U	--	--	--	**11000**	**630**	**610**	--	--	**371**	**1390**
	2/16/2010	N	**0.0355**	< 0.0150 U	--	--	--	**25000**	**990**	**520**	--	--	**201**	**1340**
	8/12/2010	N	**0.0361**	< 0.0150 U	--	--	--	**23000**	**1100**	**530**	--	--	**175**	**1450**
	4/6/2011	N	**0.0383**	< 0.0150 U	--	--	--	**23000**	**760**	**240**	--	--	**202**	**1210**
	8/10/2011	N	**0.0326**	< 0.0150 U	--	--	--	**26000**	**840**	**260**	--	--	**84.7**	**944**
	2/16/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	**27000**	**1400**	**440**	--	--	**70.2**	**1030**
	8/13/2012	N	**0.0288**	< 0.0150 U	--	--	--	**28000**	**1500**	**500**	--	--	**66.0 J**	**854**
	2/11/2013	N	**0.0306**	< 0.0150 U	--	--	--	**27000**	**1500**	**590**	--	--	**74.1**	**988**
	8/9/2013	N	**0.0239**	< 0.0150 U	--	--	--	**14000**	**580**	< 150 U	--	--	**202**	**1250**
	2/7/2014	N	**0.0213**	**0.0028 J**	--	--	--	**14000**	**970**	**230**	--	--	**184**	**1040**

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2021 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant

Chemical Name			Arsenic	Chromium	Chromium, Hexavalent	Iron	Manganese	Benzene	Ethylbenzene	Total Xylenes	DRO (C10-C28)	GRO (C6-C10)	Chloride	Total Dissolved Solids
Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
MW-24	8/13/2014	N	< 0.0200 UJ	< 0.0150 UJ	--	--	--	17000	870	110	--	--	282	1170
	8/13/2014	FD	< 0.0200 UJ	< 0.0150 UJ	--	--	--	22000	910	140	--	--	279	1330
	2/11/2015	N	0.0198 J	0.0025 J	--	--	--	19000	1100	380	--	--	305	1160
	8/11/2015	N	0.0161 J	0.0027 J	--	--	--	15000 J	130 J	100 J	--	--	301	1340
	4/1/2016	N	0.0335	< 0.01 U	< 0.01 U	--	--	19800	174	221	< 1.41 U	34.6	164	1610
	9/12/2016	N	0.0254	< 0.00136 U	--	3.88	0.0318	31300 D	134	110	< 0.986 U	27.7	153	1580
MW-25	2/12/2009	N	0.0272	< 0.0150 U	--	--	--	7900	560	< 75 U	--	--	2630	6470
	8/14/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	8200	780	< 60 U	--	--	1940	4570
	2/17/2010	N	0.0209	< 0.0150 U	--	--	--	6800	770	16	--	--	4180	7280
	8/11/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	8600	860	< 60 U	--	--	1290	3430
	8/12/2010	FD	< 0.0200 U	< 0.0150 U	--	--	--	10000	890	15	--	--	1310	3470
	4/7/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	6500	740	< 60 U	--	--	2890	6060
	8/11/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	6700	510	< 60 U	--	--	2900	5880
	2/15/2012	N	0.0291	< 0.0150 U	--	--	--	4800	750	34	--	--	2900	6620
	2/15/2012	FD	0.0254	< 0.0150 U	--	--	--	5000	730	34	--	--	1350	6460
	8/13/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	7900	970	41	--	--	2830 J	9480
	2/8/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	6700	790	30 J	--	--	2840	6310
	8/12/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	4500	610	< 60 U	--	--	2960	5120
	2/10/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	4200 J	390 J	26 J	--	--	2470	5120
	8/13/2014	N	< 0.0200 UJ	< 0.0150 UJ	--	--	--	2800 J	540 J	1.9 J	--	--	2540	5210
	2/11/2015	N	0.0077 J	0.0020 J	--	--	--	2700	160	< 20 U	--	--	2510	5020
	2/11/2015	FD	0.0078 J	< 0.0150 U	--	--	--	2900	170	22	--	--	2260	4870
	8/11/2015	N	0.0074 J	< 0.0150 U	--	--	--	2300	100	6.4 J	--	--	2170	5070
	4/1/2016	N	< 0.01 U	< 0.01 U	< 0.01 U	--	--	1940	13.8	< 10 U	< 1.41 U	4.63	1920	4420
	4/1/2016	FD	0.0109	< 0.01 U	< 0.01 U	--	--	1970	18.9	< 10 U	< 1.41 U	4.57	190	3810
	9/12/2016	N	< 0.00336 U	< 0.00136 U	--	3.3	0.0957	2000 D	29.2	< 0.642 U	1.2 J	3.76	1830	4240
	9/12/2016	FD	< 0.00336 U	< 0.00136 U	--	3.05	0.0968	1980 D	25.1	2.22	1.32 J	2.94	1780	4200
	4/6/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	0.343 J	0.0964 J	1340	35.8	< 20 U	1.72	1.9	2170	4370
	9/14/2017	N	0.00341	0.00146 J	< 0.01 U	--	--	7110	120	49.6	3.12	3.22	1810	4790
MW-26	2/17/2009	N	0.0442	< 0.0150 U	--	--	--	6100	350	78	--	--	295	1330
	2/16/2010	N	0.0493	< 0.0150 U	--	--	--	1800	160	6.0	--	--	297	1380
	8/11/2010	N	0.0485	< 0.0150 U	--	--	--	1700	150	22	--	--	240	1280
	4/7/2011	N	0.0460	< 0.0150 U	--	--	--	2800	110	8.5	--	--	354	1290
	8/9/2011	N	0.0468	< 0.0150 U	--	--	--	3300	160	22	--	--	360	1440
	2/17/2012	N	0.0320	< 0.0150 U	--	--	--	2300	120	16	--	--	256	1350
	8/13/2012	N	0.0336	< 0.0150 U	--	--	--	4600	230	32	--	--	233 J	1340
	2/8/2013	N	0.0256	< 0.0150 U	--	--	--	4400	140	< 30 U	--	--	259	1380
	8/12/2013	N	0.0263	< 0.0150 U	--	--	--	3300 J	150 J	27 J	--	--	312	1290
	8/12/2013	FD	0.0299	< 0.0150 U	--	--	--	3200 J	140 J	25 J	--	--	277	1330
	2/10/2014	N	0.0236	0.0017 J	--	--	--	2400	110	14	--	--	270	1390
	8/14/2014	N	0.0285 J	< 0.0150 UJ	--	--	--	3600	210	22	--	--	263	1260
	8/14/2014	FD	0.0293 J	< 0.0150 UJ	--	--	--	3100	220	23	--	--	268	1240
	2/11/2015	N	0.0304	< 0.0150 U	--	--	--	1200	51	14	--	--	320	1200
	8/11/2015	N	0.0352	< 0.0150 U	--	--	--	1600	7.9 J	17	--	--	260	1320
	4/1/2016	N	0.059	< 0.01 U	< 0.01 U	--	--	962	< 10 U	< 10 U	2.53	3	285	1220
	9/12/2016	N	0.0519	< 0.00136 U	--	7.35	0.039	1500 D	5.28	22	7.1	3.25	233	1270
	4/6/2017	N	0.0362 J	< 0.05 U	0.0049 J	0.26 J	0.0324 J	940	< 20 U	< 20 U	3.53	1.61	191	1200
	9/15/2017	N	0.057	< 0.004 U	< 0.01 U	--	--	1790	14.6	25.2	4.19	1.74	167	1240

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Appendix E
Historical Analytical Data (through 2017)
2021 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant

Chemical Name			Arsenic	Chromium	Chromium, Hexavalent	Iron	Manganese	Benzene	Ethylbenzene	Total Xylenes	DRO (C10-C28)	GRO (C6-C10)	Chloride	Total Dissolved Solids
Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
MW-27	2/17/2009	N	**0.0408**	< 0.0150 U	--	--	--	**12000**	**1300**	**420**	--	--	**1000**	**2390**
MW-29	2/4/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	**490**	**170**	**140**	--	--	**661**	**1840**
	8/13/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	**49**	**51**	**29**	--	--	**916**	**1510**
	2/15/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	**130**	**190**	**58**	--	--	**389**	**1470**
	2/15/2010	FD	< 0.0200 U	< 0.0150 U	--	--	--	**120**	**180**	**58**	--	--	**434**	**1460**
	8/23/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	**78**	**59**	**33**	--	--	**365**	**1380**
	4/7/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	**250**	**510**	**3.7**	--	--	**371**	**1420**
	8/10/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	**190**	**230**	< 15 U	--	--	**344**	**1470**
	8/10/2011	FD	< 0.0200 U	< 0.0150 U	--	--	--	**180**	**230**	< 3.0 U	--	--	**377**	**1490**
	2/9/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	**100**	**250**	**15**	--	--	**241**	**1270**
	8/8/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	**130 J**	**170 J**	**30 J**	--	--	**186**	**1230**
	2/8/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	**86 J**	**160 J**	**79 J**	--	--	**151 J**	**1140**
	2/8/2013	FD	< 0.0200 U	< 0.0150 U	--	--	--	**84 J**	**150 J**	**77 J**	--	--	**150 J**	**1180**
	8/8/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	**60 J**	**48 J**	**28 J**	--	--	**126**	**874**
	2/6/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	**110 J**	**88 J**	**7.4 J**	--	--	**103 J**	**856**
	8/11/2014	N	< 0.0200 UJ	< 0.0150 UJ	--	--	--	**80 J**	**63 J**	**14 J**	--	--	**101**	**870**
	2/9/2015	N	< 0.0200 U	< 0.0150 U	--	--	--	**240 J**	**27 J**	**3.5 J**	--	--	**135**	**850**
	8/5/2015	N	< 0.0200 U	< 0.0150 U	--	--	--	**86**	**4.3**	**1.9**	--	--	**91.9 J**	**930**
	3/31/2016	N	< 0.01 U	< 0.01 U	< 0.01 U	--	--	**134**	**2.51**	< 2 U	< 1.41 U	**4.28**	**115**	**829**
	9/7/2016	N	< 0.00336 U	< 0.00136 U	**0.0101**	**6.92**	**0.107**	**90.7**	**2.25**	**1.56 J**	< 0.987 U	**4.68**	**101**	**953**
	4/5/2017	N	< 0.05 U	< 0.05 U	--	**0.323 J**	**0.115 J**	**272**	**3.87**	< 2 U	< 1.5 U	**2.15**	**131**	**918**
	4/7/2017	N	--	--	**0.0056 J**	--	--	--	--	--	--	--	--	--
	9/12/2017	N	**0.00288**	< 0.004 U	**0.0028 J**	--	--	**1600 D**	**10**	**2.92**	< 1.5 U	**1.72**	**138**	**1040**
MW-3	2/9/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	**98**	**31**	< 3.0 U	--	--	**110**	**685**
	8/13/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**423**	**706**
	2/16/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**86.7**	**667**
	8/10/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**95.0**	**694**
	4/7/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**120**	**675**
	4/7/2011	FD	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**98.1**	**706**
	8/9/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**134**	**784**
	2/10/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**105**	**740**
	8/9/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**133**	**744**
	2/7/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**85.4 J**	**756**
	8/12/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**80.2**	**732**
	2/4/2014	N	**0.0147 J**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**75.0**	**709**
	8/5/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**59.9**	**669**
	2/3/2015	N	**0.0126 J**	**0.0019 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**68.5**	**667**
	8/6/2015	N	**0.0150 J**	**0.0024 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**71.5**	**690**
	4/1/2016	N	**0.0121**	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**83.8**	**784**
	9/12/2016	N	**0.0124**	< 0.00136 U	--	< 0.00616 U	< 0.000585 U	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	**79**	**683**
	4/5/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	< 1 U	< 0.1 U	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**83.7**	**706**
	4/5/2017	FD	< 0.05 U	< 0.05 U	< 0.01 U	**0.0738 J**	< 0.1 U	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**91.7**	**664**
	9/13/2017	N	**0.0141**	**0.00068 J**	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**74.1**	**806**
MW-30	2/4/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	**75**	**10**	< 3.0 U	--	--	**412**	**1380**
	8/13/2009	N	**0.0334**	< 0.0150 U	--	--	--	**1.9**	< 1.0 U	< 3.0 U	--	--	**795**	**1250**
	2/15/2010	N	**0.0270**	< 0.0150 U	--	--	--	**1.4**	< 1.0 U	< 3.0 U	--	--	**365**	**1240**
	8/23/2010	N	**0.0263**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**374**	**1210**
	4/6/2011	N	**0.0249**	< 0.0150 U	--	--	--	**1.7**	< 1.0 U	< 3.0 U	--	--	**455**	**1330**

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Chemical Name			Arsenic	Chromium	Chromium, Hexavalent	Iron	Manganese	Benzene	Ethylbenzene	Total Xylenes	DRO (C10-C28)	GRO (C6-C10)	Chloride	Total Dissolved Solids
Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
MW-30	8/10/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	320	7.3	< 3.0 U	--	--	509	1470
	2/8/2012	N	0.0270	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	403	1340
	8/9/2012	N	0.0252	< 0.0150 U	--	--	--	1.5	< 1.0 U	< 3.0 U	--	--	372	1260
	2/11/2013	N	0.0209	< 0.0150 U	--	--	--	9.8	< 1.0 U	< 3.0 U	--	--	423 J	1520
	8/7/2013	N	0.0237	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	365	1370
	2/7/2014	N	0.0243	< 0.0150 U	--	--	--	0.9 J	< 1.0 U	1.5	--	--	342	1240
	8/11/2014	N	0.0200 J	< 0.0150 UJ	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	349	1350
	2/10/2015	N	0.0297	0.0017 J	--	--	--	0.5 J	< 1.0 U	< 1.0 U	--	--	312	1120
	8/5/2015	N	0.0224	0.0017 J	--	--	--	4.3	0.2 J	< 1.0 U	--	--	344 J	1320 J
	9/6/2016	N	0.0101	< 0.00136 U	< 0.01 U	0.0699 J	0.484	40.9	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	321	1290
	4/5/2017	N	< 0.05 U	< 0.05 U	--	< 1 U	0.529 J	32.5	< 2 U	< 2 U	< 1.5 U	< 1.5 U	328	1330
	4/7/2017	N	--	--	< 0.01 U	--	--	--	--	--	--	--	--	--
	9/12/2017	N	0.00903	< 0.004 U	< 0.01 U	--	--	53	< 2 U	2.31	< 1.5 U	< 1.5 U	307	1320
MW-31	2/9/2009	N	0.0539	< 0.0150 U	--	--	--	3700	330	6.7	--	--	454	1400
	8/14/2009	N	0.0365	< 0.0150 U	--	--	--	2000	180	< 15 U	--	--	844	1500
	2/15/2010	N	0.0323	< 0.0150 U	--	--	--	1700	190	3.0	--	--	507	1380
	8/10/2010	N	0.0420	< 0.0150 U	--	--	--	1400	130	4.7	--	--	496	1420
	4/7/2011	N	0.0452	< 0.0150 U	--	--	--	1300	200	< 3.0 U	--	--	769	1600
	8/15/2011	N	0.0361	< 0.0150 U	--	--	--	1300	190	< 15 U	--	--	666	1510
	2/8/2012	N	0.0296	< 0.0150 U	--	--	--	230	190	4.5	--	--	743	1480
	8/9/2012	N	0.0308	< 0.0150 U	--	--	--	340 J	190 J	10 J	--	--	591	1470
	2/6/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	14	17	< 5.0 U	--	--	414 J	1120
	8/6/2013	N	0.0236	< 0.0150 U	--	--	--	9.4 J	29 J	< 3.0 U	--	--	464	1530
	2/7/2014	N	0.0242	< 0.0150 U	--	--	--	0.4 J	< 1.0 U	< 2.0 U	--	--	571	1290
	8/12/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	< 20 U	< 1.0 U	< 2.0 U	--	--	453	1260
	2/3/2015	N	0.0277	< 0.0150 U	--	--	--	0.5 J	< 1.0 U	< 1.0 U	--	--	476	1110
	8/6/2015	N	0.0290	0.0016 J	--	--	--	< 1.0 U	< 1.0 U	0.6 J	--	--	424	1290 J
	8/6/2015	FD	0.0236	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	0.6 J	--	--	461	1380 J
	3/30/2016	N	0.0267	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	417	1160
	9/6/2016	N	0.034	< 0.00136 U	< 0.01 U	1.07	0.245	< 0.408 U	< 0.657 U	< 0.642 U	< 0.987 U	< 0.987 U	218	1490
	12/12/2016	N	--	--	--	--	--	--	--	--	--	--	116	--
	4/5/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	0.105 J	0.316	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	435	1310
	4/5/2017	FD	< 0.05 U	< 0.05 U	< 0.01 U	0.0918 J	0.298	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	431	1400
	9/13/2017	N	0.0347	< 0.004 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	445	1450
MW-32	2/4/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	20	17	14	--	--	1540	3910
	8/12/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	2.8	< 1.0 U	< 3.0 U	--	--	2180	3770
	2/12/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	1370	3810
	8/9/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	38	25	8.6	--	--	1860	3750
	4/6/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	43	16	< 3.0 U	--	--	2080	3990
	4/6/2011	FD	< 0.0200 U	< 0.0150 U	--	--	--	45	17	< 3.0 U	--	--	1870	3900
	8/10/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	99	19	5.5	--	--	2040	3790
	2/8/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	400	13	12	--	--	656	2980
	8/8/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	1400 J	7.3 J	21 J	--	--	1170	3040
	2/7/2013	N	0.0233	< 0.0150 U	--	--	--	1800 J	5.0 J	7.2 J	--	--	1200 J	3070
	8/8/2013	N	0.0233	< 0.0150 U	--	--	--	2000 J	3.2 J	8.8 J	--	--	1220	2830
	2/7/2014	N	0.0188 J	< 0.0150 U	--	--	--	4200	9.5 J	16 J	--	--	1340	3000
	8/11/2014	N	< 0.0200 UJ	< 0.0150 UJ	--	--	--	3600	7.6	91	--	--	1360	3310
	2/9/2015	N	0.0277	< 0.0150 U	--	--	--	3700	6.4 J	85	--	--	1360	2550

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Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
MW-32	2/9/2015	FD	**0.0206**	< 0.0150 U	--	--	--	**3500**	**5.8 J**	**87**	--	--	**1400**	**2490**
	8/5/2015	N	**0.0304**	**0.0018 J**	--	--	--	**6500**	**5.1 J**	**15**	--	--	**1220 J**	**3010 J**
	3/31/2016	N	**0.0297**	< 0.01 U	**0.0128**	--	--	**4300**	< 40 U	< 40 U	< 1.41 U	**6.79**	**1120**	**2450**
	9/7/2016	N	**0.011**	< 0.00136 U	**0.008 J**	**6.35**	**0.0674**	**6500**	< 32.9 U	< 32.1 U	< 0.986 U	**7.52**	**1070**	**2650**
	4/7/2017	N	< 0.05 U	**0.00848 J**	**0.0056 J**	**0.0899 J**	**0.054 J**	**7560**	**177**	**119**	< 1.5 U	< 1.5 U	**988**	**2650**
	9/13/2017	N	**0.0263**	< 0.004 U	< 0.01 U	--	--	**14700**	**9.9**	**3.25**	< 1.5 U	**1.35 J**	**1070**	**3140**
MW-34	2/4/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	**84**	**240**	**240**	--	--	**73**	**569**
	8/13/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	**26**	**150**	**210**	--	--	**93.2**	**697**
	2/16/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	**28**	**120**	**180**	--	--	**226**	**942**
	8/23/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 50 U	**81**	**90**	--	--	**206**	**1030**
	4/6/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	**170**	**160**	**190**	--	--	**385**	**1230**
	8/10/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	**160**	**200**	**250**	--	--	**392**	**1410**
	8/10/2011	FD	< 0.0200 U	< 0.0150 U	--	--	--	**160**	**200**	**250**	--	--	**437**	**1340**
	2/8/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	**560**	**180**	**190**	--	--	**431**	**1160**
	8/8/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	**1100**	**120**	**100**	--	--	**300**	**1450**
	2/7/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	**910 J**	**84 J**	**46 J**	--	--	**322 J**	**1580**
	8/8/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	**1400 J**	**80 J**	**51 J**	--	--	**298**	**1340**
	2/6/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	**1200**	**16 J**	**7.7 J**	--	--	**394 J**	**1540**
	2/6/2014	FD	< 0.0200 U	< 0.0150 U	--	--	--	**1200**	**14**	**6.9**	--	--	**268 J**	**1370**
	8/11/2014	N	< 0.0200 UJ	< 0.0150 UJ	--	--	--	**1500**	**21**	**6.8**	--	--	**293**	**1410**
	2/10/2015	N	< 0.0200 U	< 0.0150 U	--	--	--	**870**	**3.0 J**	< 5.0 U	--	--	**269**	**1330**
	8/4/2015	N	< 0.0200 U	< 0.0150 U	--	--	--	**1500**	**7.1 J**	**2.5 J**	--	--	**272 J**	**1540 J**
	3/31/2016	N	< 0.01 U	< 0.01 U	< 0.01 U	--	--	**230**	< 2 U	< 2 U	**5.4**	**3.22**	**272**	**1160**
	9/7/2016	N	< 0.00336 U	< 0.00136 U	< 0.01 U	**3.43**	**0.0506**	**1590**	< 13.1 U	< 12.8 U	**1.32 J**	**3.99**	< 0.858 U	**1390**
	4/5/2017	N	< 0.05 U	**0.0078 J**	--	**0.162 J**	**0.0612 J**	**1840**	**85**	**45.4**	< 1.5 U	< 1.5 U	**244**	**1340**
	4/7/2017	N	--	--	**0.0034 J**	--	--	--	--	--	--	--	--	--
	9/12/2017	N	**0.00215**	< 0.004 U	**0.003 J**	--	--	**2420 J**	< 2 UJ	< 2 UJ	**1.04 J**	< 1.5 U	**235**	**1500**
MW-35	4/12/2017	N	--	--	< 0.01 U	--	--	**0.75 J**	< 2 U	< 2 U	**1.77**	**2.28**	**1810**	**3300**
	9/15/2017	N	**0.0293 J**	< 0.004 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**941**	**2090**
MW-36	4/12/2017	N	--	--	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**391**	**1150**
	9/15/2017	N	**0.00957 J**	< 0.004 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**393**	**1350**
MW-4	2/11/2009	N	**0.0207**	< 0.0150 U	--	--	--	**5.9**	**4.7**	< 3.0 U	--	--	**4190**	**9220**
	2/11/2009	FD	< 0.0200 U	< 0.0150 U	--	--	--	**5.9**	**4.8**	< 3.0 U	--	--	**4900**	**9800**
	8/12/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**3600**	**6940**
	2/12/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**3480**	**5790**
	8/6/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**3100**	**6110**
	8/10/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**3610**	**6680**
	2/14/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1180**	**8480**
	8/10/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**3230 J**	**6090**
	2/7/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**2420 J**	**4910**
	8/8/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**3040 J**	**5310**
	2/5/2014	N	< 0.0200 U	**0.0021 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**2290**	**4920**
	8/12/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**3910**	**6880**
	2/4/2015	N	**0.0093 J**	**0.0023 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**2490**	**4650**
	8/10/2015	N	**0.0099 J**	**0.0019 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**2300**	**4720**
	9/12/2016	N	< 0.00336 U	< 0.00136 U	--	**0.338**	**1.43**	**1.77 J**	< 0.657 U	< 0.642 U	< 0.987 U	< 0.987 U	**3740**	**6810**
	9/12/2016	FD	< 0.00336 U	< 0.00136 U	--	**0.242**	**1.04**	**1.55 J**	< 0.657 U	< 0.642 U	< 0.986 U	**1.05 J**	**2400**	**5280**
	4/4/2017	N	< 0.05 U	< 0.05 U	--	**0.0629 J**	**1.14**	**4.02**	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**2390**	**4180**

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Appendix E
Historical Analytical Data (through 2017)
2021 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant

Chemical Name			Arsenic	Chromium	Chromium, Hexavalent	Iron	Manganese	Benzene	Ethylbenzene	Total Xylenes	DRO (C10-C28)	GRO (C6-C10)	Chloride	Total Dissolved Solids
Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
MW-4	4/7/2017	N	--	--	< 0.01 U	--	--	--	--	--	--	--	--	--
	9/13/2017	N	**0.00758**	< 0.004 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**2500**	**5360**
MW-6	2/5/2009	N	**0.0269**	< 0.0150 U	--	--	--	**3.1**	**7.6**	**6.7**	--	--	**5050**	**10700**
	8/7/2009	N	**0.0247**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**748**	**3160**
	2/9/2010	N	**0.0227**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**867**	**2950**
	8/5/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1070**	**3940**
	4/6/2011	N	**0.0230**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**913**	**2940**
	8/9/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**973**	**3180**
	2/9/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1050**	**3400**
	8/10/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**2190 J**	**5980**
	2/7/2013	N	**0.0248**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1170 J**	**4120**
	2/7/2013	FD	**0.0241**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1210 J**	**4040**
	8/6/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1910**	**5990**
	2/5/2014	N	**0.0193 J**	**0.0024 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**2030 J**	**5620**
	8/5/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**3810**	**8280**
	2/5/2015	N	**0.0257**	**0.0022 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**825**	**3450**
	8/7/2015	N	**0.0328 J**	**0.0018 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**1020**	**3960**
	3/31/2016	N	**0.0344**	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**1430**	**3490**
	9/7/2016	N	**0.0167**	< 0.00136 U	< 0.01 U	**0.449**	**0.125**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.987 U	< 0.987 U	**1440**	**4480**
	4/4/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	**0.0437 J**	**0.115**	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**866**	**3700**
MW-7	2/5/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	**2.8**	**11**	**9.0**	--	--	**97.1**	**1060**
	8/6/2009	N	**0.0277**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**51.3**	**1010**
	2/9/2010	N	**0.0250**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**38.4**	**1000**
	8/5/2010	N	**0.0258**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**33.6**	**1030**
	4/6/2011	N	**0.0273**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**101**	**894**
	8/9/2011	N	**0.0256**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**35.7**	**876**
	2/9/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**40.9**	**884**
	8/9/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**71.1**	**1040**
	2/6/2013	N	**0.0226**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**41.3 J**	**1180**
	8/6/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**56.4**	**1370**
	2/4/2014	N	**0.0085 J**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**44.8**	**1420**
	8/5/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**46.7**	**1420**
	2/3/2015	N	< 0.0200 U	**0.0014 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**49.3**	**1150**
	8/7/2015	N	**0.0084 J**	**0.0018 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**78.1**	**1400**
	9/9/2016	N	**0.0138**	< 0.00136 U	--	**4.25**	**1.26**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	**154**	**1170**
	4/4/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	**0.265 J**	**1.08**	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**95.7**	**1050**
MW-8	8/6/2009	N	**0.0442**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1310**	**4010**
	2/5/2010	N	**0.0321**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1230**	**3710**
	8/4/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1420**	**3690**
	4/6/2011	N	**0.0220**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1230**	**3270**
	8/8/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1250**	**3130**
	2/8/2012	N	**0.0224**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1350**	**3420**
	8/8/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1260**	**3280**
	8/8/2012	FD	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1310 J**	**3380**
	2/6/2013	FD	**0.0235**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**874 J**	**1640**
	2/7/2013	N	**0.0282**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1440 J**	**3780**
	8/8/2013	N	**0.0399**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1550**	**4020**
	2/5/2014	N	**0.0224 J**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	**0.7 J**	--	--	**1810 J**	**4260**

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Appendix E
Historical Analytical Data (through 2017)
2021 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant

ARCADIS Design & Consultancy for natural and built assets

Chemical Name			Arsenic	Chromium	Chromium, Hexavalent	Iron	Manganese	Benzene	Ethylbenzene	Total Xylenes	DRO (C10-C28)	GRO (C6-C10)	Chloride	Total Dissolved Solids
Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
MW-8	8/8/2014	N	**0.0436**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**1720**	**4110 J**
	2/5/2015	N	**0.0154 J**	**0.0014 J**	--	--	--	< 1.0 U	**0.6 J**	**1.3**	--	--	**1630**	**4000**
	8/5/2015	N	**0.0234**	**0.0021 J**	--	--	--	< 1.0 U	**0.4 J**	**0.9 J**	--	--	**1260 J**	**4100 J**
	3/31/2016	N	**0.029**	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**1200**	**3150**
	9/6/2016	N	**0.0311**	< 0.00136 U	< 0.01 U	**4.39**	**0.236**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	**51**	**2920**
	4/5/2017	N	< 0.05 U	< 0.05 U	**0.0067 J**	**0.0964 J**	**0.181**	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**840**	**2620**
	4/5/2017	FD	< 0.05 U	< 0.05 U	**0.0042 J**	**0.0918 J**	**0.194**	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**851**	**2460**
	9/12/2017	N	**0.0408**	< 0.004 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**782**	**3300**
MW-9	2/12/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	**3700**	**470**	**140**	--	--	**560**	**1720**
	8/14/2009	N	**0.0244**	< 0.0150 U	--	--	--	**1600**	**64**	< 3.0 U	--	--	**802**	**1540**
	2/15/2010	N	**0.0221**	< 0.0150 U	--	--	--	**2700**	**430**	**6.0**	--	--	**536**	**1640**
	8/23/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	**1500**	**250**	< 15 U	--	--	**583**	**1680**
	4/7/2011	N	**0.0201**	< 0.0150 U	--	--	--	**1400**	**270**	< 3.0 U	--	--	**608**	**1640**
	8/10/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	**610**	**210**	**3.7**	--	--	**544**	**1710**
	2/9/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	**220 J**	**200 J**	**4.5 J**	--	--	**525**	**1680**
	8/8/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	**16**	**5.0**	< 3.0 U	--	--	**492**	**1730**
	2/11/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	**61**	**130**	**6.2**	--	--	**580 J**	**1970**
	8/7/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	**54**	**110**	< 5.0 U	--	--	**504**	**1710**
	2/7/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	**13**	**5.9**	**2.2**	--	--	**490**	**1600**
	8/8/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	**42**	**21**	< 3.0 U	--	--	**602**	**1770 J**
	2/9/2015	N	**0.0136 J**	< 0.0150 U	--	--	--	**8.1**	**0.2 J**	< 1.0 U	--	--	**576**	**1640**
	8/4/2015	N	**0.0119 J**	**0.0022 J**	--	--	--	**1.6**	< 1.0 U	< 1.0 U	--	--	**504 J**	**1680 J**
	3/30/2016	N	< 0.01 U	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**526**	**1660**
	9/6/2016	N	**0.0106**	< 0.00136 U	< 0.01 U	**0.24**	**0.312**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	**477**	**1770**
	4/5/2017	N	< 0.05 U	< 0.05 U	--	**0.0551 J**	**0.307 J**	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**453**	**1650**
	4/7/2017	N	--	--	< 0.01 U	--	--	--	--	--	--	--	--	--
	9/12/2017	N	**0.0131**	< 0.004 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**434**	**1760**
MWD-1	2/11/2009	N	**0.0263**	< 0.0150 U	--	--	--	**3.7**	**3.1**	< 3.0 U	--	--	**10500**	**19600**
	8/6/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	**1.9**	< 1.0 U	< 3.0 U	--	--	**9340**	**18800**
	2/8/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	**1.2**	< 1.0 U	< 3.0 U	--	--	**9500**	**17400**
	8/4/2010	N	**0.0293**	< 0.0150 U	--	--	--	**5.0**	< 1.0 U	< 3.0 U	--	--	**8490**	**11100**
	4/14/2011	N	**0.0221**	< 0.0150 U	--	--	--	**4.5**	< 1.0 U	< 3.0 U	--	--	**9670**	**18100**
	8/17/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	**5.4**	**1.9**	< 3.0 U	--	--	**8950**	**13000**
	2/13/2012	N	**0.0379 J**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1630 J**	**7950 J**
	2/13/2012	FD	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**381 J**	**1470 J**
	8/13/2012	N	**0.0210**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**8220 J**	**13300**
	2/6/2013	N	**0.0201**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**3820 J**	**7330**
	8/7/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**7290**	**11400**
	2/4/2014	N	**0.0158 J**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**8140 J**	**12800**
	8/6/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**4860**	**9920**
	2/6/2015	N	**0.0513**	**0.0088 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**908**	**2000**
	8/6/2015	N	**0.0572**	**0.0087 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**712**	**2040**
	4/1/2016	N	**0.0375**	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**718**	**1820**
	9/9/2016	N	**0.0571**	**0.00432 J**	--	< 0.00616 U	**0.00129 J**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	**815**	**1840**
	4/6/2017	N	**0.0715**	< 0.05 U	< 0.01 U	< 1 U	< 0.1 U	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**629**	**1700**
	9/13/2017	N	**0.0514**	**0.00479**	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**635**	**1910**

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Chemical Name			Arsenic	Chromium	Chromium, Hexavalent	Iron	Manganese	Benzene	Ethylbenzene	Total Xylenes	DRO (C10-C28)	GRO (C6-C10)	Chloride	Total Dissolved Solids
Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
MWD-10	2/12/2009	N	**0.0866**	< 0.0150 U	--	--	--	**700**	**100**	**18**	--	--	**6130**	**11600**
	8/10/2009	N	**0.0739**	< 0.0150 U	--	--	--	**700**	**67**	**13**	--	--	**5550**	**11400**
	8/10/2009	FD	**0.0717**	< 0.0150 U	--	--	--	**700**	**70**	**14**	--	--	**5670**	**12600**
	2/9/2010	N	**0.0717**	< 0.0150 U	--	--	--	**1100**	**40**	< 3.0 U	--	--	**6590**	**10900**
	8/19/2011	N	**0.0695**	< 0.0150 U	--	--	--	**810**	**76**	**8.5**	--	--	**4660**	**9810**
MWD-11	2/10/2009	N	< 0.020 U	< 0.0150 U	--	--	--	**13**	**6.6**	< 3.0 U	--	--	**2640**	**4670**
	8/12/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	**3.5**	**1.2**	< 3.0 U	--	--	**2460**	**4370**
	2/8/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**2210**	**4440**
	8/5/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1560**	**3330**
	4/15/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	**4.2**	< 1.0 U	< 3.0 U	--	--	**2400**	**4750**
	4/15/2011	FD	< 0.0200 U	< 0.0150 U	--	--	--	**4.3**	< 1.0 U	< 3.0 U	--	--	**2370**	**4110**
	8/19/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	**4.0**	**1.4**	< 3.0 U	--	--	**1520**	**3130**
	8/19/2011	FD	< 0.0200 U	< 0.0150 U	--	--	--	**3.4**	**1.4**	< 3.0 U	--	--	**1340**	**3370**
	2/10/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**205**	**932**
	8/9/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**315 J**	**864**
	8/9/2012	FD	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**156 J**	**836**
	2/5/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**623 J**	**1450**
	8/9/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**701**	**1600**
	8/9/2013	FD	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**675**	**1670**
	2/4/2014	N	**0.0079 J**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**1700 J**	**3520**
	8/5/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**112**	**656**
	2/5/2015	N	**0.0183 J**	**0.0024 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**89.6**	**672**
	8/10/2015	N	**0.0217 J**	**0.0022 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**85.9**	**682**
	4/1/2016	N	**0.0143**	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**66.9**	**630**
	9/12/2016	N	**0.012**	< 0.00136 U	--	< 0.00616 U	< 0.000585 U	< 0.408 U	< 0.657 U	< 0.642 U	< 0.987 U	< 0.987 U	**94.2**	**707**
	4/5/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	< 1 U	< 0.1 U	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**91.6**	**722**
	9/15/2017	N	**0.0157 J**	**0.00142 J**	**0.0058 J**	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**101 J**	**758 J**
	9/15/2017	FD	**0.0276 J**	< 0.004 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**1190 J**	**2560 J**
MWD-12	2/10/2009	N	**0.0534**	< 0.0150 U	--	--	--	**900**	**69**	**25**	--	--	**5280**	**7480**
	8/6/2009	N	**0.0617**	< 0.0150 U	--	--	--	**660**	**41**	**12**	--	--	**4350**	**9440**
	2/5/2010	N	**0.0629**	< 0.0150 U	--	--	--	**700**	**51**	**12**	--	--	**4630**	**8600**
	8/4/2010	N	**0.0636**	< 0.0150 U	--	--	--	**640**	**40**	**9.3**	--	--	**4340**	**8100**
	4/14/2011	N	**0.0632**	< 0.0150 U	--	--	--	**780**	**57**	**13**	--	--	**5260**	**8820**
	8/17/2011	N	**0.0572**	< 0.0150 U	--	--	--	**720**	**49**	**12**	--	--	**5090**	**8460**
	2/10/2012	N	**0.0317**	< 0.0150 U	--	--	--	**1.7**	< 1.0 U	< 3.0 U	--	--	**8390**	**22800**
	8/9/2012	N	**0.0761**	< 0.0150 U	--	--	--	**1000**	**45**	**13**	--	--	**3280**	**6340**
	2/11/2013	N	**0.0515**	< 0.0150 U	--	--	--	**660**	**31**	**8.3**	--	--	**1630 J**	**4400**
	8/8/2013	N	**0.0679**	< 0.0150 U	--	--	--	**930**	**44**	**13**	--	--	**1500**	**3670**
	2/6/2014	N	**0.0805**	< 0.0150 U	--	--	--	**1300**	**54**	**11**	--	--	**2320**	**5420**
	8/11/2014	N	**0.0662 J**	< 0.0150 UJ	--	--	--	**160**	**17**	< 1.0 U	--	--	**4370**	**7040**
	8/11/2014	FD	**0.0714 J**	< 0.0150 UJ	--	--	--	**160**	**17**	< 1.0 U	--	--	**4290**	**7480**
	2/9/2015	N	**0.0362**	< 0.0150 U	--	--	--	**5.8**	**9.5**	**3.8**	--	--	**667**	**2410**
	8/5/2015	N	**0.0463**	**0.0016 J**	--	--	--	**6.9**	**85**	**8.7**	--	--	**694 J**	**2690 J**
	3/31/2016	N	**0.0435**	< 0.01 U	< 0.01 U	--	--	**32.6**	**14.5**	< 2 U	< 1.41 U	< 1.41 U	**714**	**4570**
	9/7/2016	N	**0.0165**	< 0.00136 U	< 0.01 U	**1.21**	**0.13**	**51.4**	**109**	**4.85**	< 0.986 U	**1.39 J**	**998**	**2730**
	4/6/2017	N	**0.0375 J**	< 0.05 U	**0.0028 J**	**0.161 J**	**0.0977 J**	**48**	**74.5**	**5.92**	**3.07**	**1.61**	**962**	**2780**
	9/13/2017	N	**0.037**	< 0.004 U	< 0.01 U	--	--	**27.1**	**83.4**	**2.33**	< 1.5 U	< 1.5 U	**793**	**2740**

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Appendix E
Historical Analytical Data (through 2017)
2021 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant

ARCADIS Design & Consultancy for natural and built assets

Chemical Name			Arsenic	Chromium	Chromium, Hexavalent	Iron	Manganese	Benzene	Ethylbenzene	Total Xylenes	DRO (C10-C28)	GRO (C6-C10)	Chloride	Total Dissolved Solids
Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
MWD-13	2/5/2009	N	**0.0244**	< 0.0150 U	--	--	--	**1.2**	**3.6**	**3.1**	--	--	**6610**	**12600**
	2/5/2009	FD	< 0.0200 U	< 0.0150 U	--	--	--	**1.2**	**3.6**	**3.1**	--	--	**6830**	**13000**
	8/7/2009	N	**0.0264**	< 0.0150 U	--	--	--	**1.1**	< 1.0 U	< 3.0 U	--	--	**9110**	**20800**
	2/5/2010	N	**0.0257**	< 0.0150 U	--	--	--	**2.7**	< 1.0 U	< 3.0 U	--	--	**1840**	**5540**
	8/20/2010	N	**0.0245**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1950**	**5710**
	4/15/2011	N	< 0.100 U	< 0.0750 U	--	--	--	**3.6**	< 1.0 U	< 3.0 U	--	--	**26800**	**45400**
	8/17/2011	N	**0.0240**	< 0.0150 U	--	--	--	**9.8**	**2.9**	< 3.0 U	--	--	**12400**	**17500**
	2/9/2012	N	**0.0531**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**935**	**3100**
	8/10/2012	N	**0.0232**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1820 J**	**5530**
	2/8/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**5280 J**	**13300**
	8/6/2013	N	**0.0205**	< 0.0150 U	--	--	--	**11**	< 1.0 U	< 3.0 U	--	--	**20000**	**37000**
	2/5/2014	N	**0.0172 J**	**0.0018 J**	--	--	--	**3.1**	< 1.0 U	< 1.0 U	--	--	**11900 J**	**20900**
	8/5/2014	N	**0.0594**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**2850**	**7000**
	2/5/2015	N	**0.0702**	**0.0024 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**1250**	**3930**
	8/7/2015	N	**0.0464 J**	**0.0027 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**1300**	**4760**
	3/31/2016	N	**0.0451**	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**1760**	**3860**
	9/7/2016	N	**0.0304**	< 0.00136 U	< 0.01 U	**0.102 J**	**0.177**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	**4010**	**8690**
	4/4/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	< 1 U	**0.269**	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**1930**	**5150**
	9/12/2017	N	**0.0294**	**0.000896 J**	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**2620**	**6280**
MWD-14	2/12/2009	N	**0.0589**	< 0.0150 U	--	--	--	**1400**	**16**	< 15 U	--	--	**9170**	**18500**
	8/10/2009	N	**0.0543**	< 0.0150 U	--	--	--	**1600**	**31**	**18**	--	--	**10700**	**21200**
	2/9/2010	N	**0.0612**	< 0.0150 U	--	--	--	**1400**	**13**	**7.8**	--	--	**11800**	**19000**
	8/5/2010	N	**0.0520**	< 0.0150 U	--	--	--	**1300**	**31**	**20**	--	--	**7150**	**13700**
	8/19/2011	N	**0.0587**	< 0.0150 U	--	--	--	**730 E**	**11**	**17**	--	--	**10900**	**19200**
	8/19/2011	FD	**0.0602**	< 0.0750 U	--	--	--	**1400**	**12**	**18**	--	--	**9990**	**18500**
	2/17/2012	N	**0.0585**	< 0.0150 U	--	--	--	**1200**	**100**	**74**	--	--	**5220**	**10400**
	2/17/2012	FD	**0.0532**	< 0.0150 U	--	--	--	**1300**	**98**	**66**	--	--	**6140**	**10600**
	8/9/2012	N	**0.0265**	< 0.0150 U	--	--	--	**1600 J**	**190 J**	**100 J**	--	--	**4900**	**8960**
	2/8/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	**1200**	**310 J**	**98 J**	--	--	**4170**	**8670**
	8/8/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	**1700**	**460**	**92 J**	--	--	**4800**	**8560**
	2/6/2014	N	**0.0274**	< 0.0150 U	--	--	--	**1100**	**170**	**29**	--	--	**7180**	**10400**
	8/13/2014	N	< 0.0200 UJ	< 0.0150 UJ	--	--	--	**1900 J**	**580 J**	**63 J**	--	--	**5290**	**7960**
	2/11/2015	N	**0.0077 J**	**0.0015 J**	--	--	--	**1300**	**210**	**41**	--	--	**3910**	**6880**
	8/5/2015	N	**0.0079 J**	< 0.0150 U	--	--	--	**1000**	**400**	**90**	--	--	**4070 J**	**8030**
	4/1/2016	N	< 0.01 U	< 0.01 U	< 0.01 U	--	--	**940**	**250**	**46.8**	< 1.41 U	**2.83**	**3460**	**6980**
	9/7/2016	N	< 0.00336 U	< 0.00136 U	**0.0097 J**	**0.886**	**0.128**	**1080**	**467**	**108**	**1.2 J**	**3.3**	**3650**	**7190**
	4/6/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	**0.212 J**	**0.161 J**	**1320**	**337**	**86.5**	**2.02**	< 1.5 U	**2980**	**5760**
	9/14/2017	N	**0.00292**	**0.000812 J**	< 0.01 U	--	--	**2600**	**369**	**30.3**	< 1.5 U	**1.59**	**1210**	**4090**
MWD-15	2/12/2009	N	**0.0540**	< 0.0150 U	--	--	--	**440**	**210**	**56**	--	--	**20800**	**37000**
	2/12/2009	FD	**0.0606**	< 0.0150 U	--	--	--	**420**	**210**	**55**	--	--	**20400**	**37000**
	8/12/2009	N	< 0.100 U	< 0.0750 U	--	--	--	**300**	**120**	**29**	--	--	**26500**	**31500**
	2/8/2010	N	< 0.100 U	< 0.0150 U	--	--	--	**360**	**23**	**4.6**	--	--	**33700**	**56400**
	8/5/2010	N	**0.0785**	< 0.0750 U	--	--	--	**240**	**28**	< 5.0 U	--	--	**19100**	**33400**
	4/15/2011	N	< 0.100 U	< 0.150 U	--	--	--	**280**	**14**	< 3.0 U	--	--	**90600**	**136000**
	8/19/2011	N	**0.0749**	< 0.0150 U	--	--	--	**150**	**93**	**64**	--	--	**7180**	**19000**
	2/16/2012	N	< 0.100 U	< 0.0750 U	--	--	--	< 230 U	**7.6**	< 3.0 U	--	--	**33100**	**160000**
	8/10/2012	N	**0.0707**	< 0.0150 U	--	--	--	< 1.0 U	**2.3**	**8.9**	--	--	**3420 J**	**7350**
	2/8/2013	N	**0.120**	< 0.0150 U	--	--	--	**20**	**20**	**18**	--	--	**1620 J**	**4980**

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Chemical Name			Arsenic	Chromium	Chromium, Hexavalent	Iron	Manganese	Benzene	Ethylbenzene	Total Xylenes	DRO (C10-C28)	GRO (C6-C10)	Chloride	Total Dissolved Solids
Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
MWD-15	8/8/2013	N	0.0559	< 0.0150 U	--	--	--	1.3	6.1	12	--	--	4010 J	10600
	2/5/2014	N	0.0905	< 0.0150 U	--	--	--	0.2 J	1.7	11	--	--	2500	5610
	8/12/2014	N	0.0971	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	1.9	--	--	2500	6440
	2/4/2015	N	0.0312	0.0014 J	--	--	--	12	19	35	--	--	1720	4000
	8/11/2015	N	0.0953	0.0015 J	--	--	--	1.1	0.4 J	0.7 J	--	--	1650	4180
	8/11/2015	FD	0.0881	< 0.0150 U	--	--	--	0.8 J	0.4 J	< 5.0 UJ	--	--	1620	3990
	4/1/2016	N	0.036	< 0.01 U	< 0.01 U	--	--	4.37	< 2 U	2.5	< 1.41 U	< 1.41 U	1520	2560
	9/9/2016	N	0.025	0.00181 J	--	2.1	0.103	2.56	3.58	12.4	< 0.986 U	1.08 J	1170	3400
	4/6/2017	N	< 0.05 U	< 0.05 U	0.0061 J	0.199 J	0.0899 J	17.7	24.4	58.5	< 1.5 U	2.2	< 25 U	3390
	9/14/2017	N	0.0258	0.000651 J	0.0025 J	--	--	5.98	2.62	10.2	< 1.5 U	1.24 J	1450	4010
MWD-16	2/12/2009	N	0.0376	< 0.0150 U	--	--	--	770	300	170	--	--	8080	16500
	8/10/2009	N	0.0484	< 0.0150 U	--	--	--	660	280	160	--	--	8750	17600
	2/9/2010	N	0.0426	< 0.0150 U	--	--	--	760	340	180	--	--	7160	14100
	8/5/2010	N	0.0399	< 0.0150 U	--	--	--	700	280	140	--	--	4570	8600
MWD-17	2/12/2009	N	0.471	< 0.0150 U	--	--	--	2400	34	22	--	--	34400	62500
	8/12/2009	N	0.616	< 0.0750 U	--	--	--	3200	68	45	--	--	46500	67800
	2/9/2010	N	0.535	< 0.0150 U	--	--	--	1800	100	37	--	--	18900	34100
	8/6/2010	N	0.669	< 0.0750 U	--	--	--	2100	71	36	--	--	29200	53500
	4/15/2011	N	0.376	< 0.0750 U	--	--	--	1900	110	38	--	--	39200	65200
	8/16/2011	N	0.600	< 0.0750 U	--	--	--	2200	140	54	--	--	53500	101000
	2/21/2012	N	0.999	< 0.0150 U	--	--	--	1500	220	< 62 UJ	--	--	8690	20600
	8/14/2012	N	--	--	--	--	--	1200	47	15	--	--	6900 J	13800
	8/24/2012	N	< 0.200 U	< 0.150 U	--	--	--	--	--	--	--	--	--	--
	2/11/2013	N	1.13	< 0.0150 U	--	--	--	2600	520	220	--	--	11400	23200
	8/8/2013	N	1.30	< 0.0150 U	--	--	--	5100 J	20 J	20 J	--	--	17400 J	27300
	2/6/2014	N	0.429	< 0.0150 U	--	--	--	1600	240	43	--	--	8470 J	16600
	8/12/2014	N	< 0.100 U	< 0.0750 U	--	--	--	210 J	14 J	18 J	--	--	117000	203000
	2/10/2015	N	0.0698	< 0.0150 U	--	--	--	260	9.9	< 5.0 U	--	--	6480	8230
	8/12/2015	N	0.0819	0.0018 J	--	--	--	130	16	< 5.0 U	--	--	5720	12200
	3/31/2016	N	0.0518	< 0.01 U	< 0.01 U	--	--	567	110	< 10 U	< 1.41 U	2.06	6030	11800
	9/7/2016	N	< 0.00336 U	< 0.00136 U	0.0152	1.58	0.127	957	251	< 12.8 U	< 0.987 U	2.63	6300	12900
	4/4/2017	N	0.0765	< 0.05 U	--	0.0942 J	0.118	790	145	17.3	< 1.5 U	< 1.5 U	7460	13300
	4/7/2017	N	--	--	< 0.01 U	--	--	--	--	--	--	--	--	--
MWD-2	2/10/2009	N	< 0.020 U	0.0219	--	--	--	6.2	3.6	< 3.0 U	--	--	14500	31100
	8/12/2009	N	< 0.0200 U	< 0.0750 U	--	--	--	3.5	1.2	< 3.0 U	--	--	18200	25900
	2/8/2010	N	< 0.100 U	0.0206	--	--	--	1.6	< 1.0 U	< 3.0 U	--	--	27900	44900
	8/5/2010	N	< 0.0200 U	< 0.0750 U	--	--	--	1.4	< 1.0 U	< 3.0 U	--	--	15800	26500
	8/5/2010	FD	< 0.0200 U	< 0.0750 U	--	--	--	1.6	< 1.0 U	< 3.0 U	--	--	15600	27900
	4/15/2011	N	< 0.100 U	< 0.0750 U	--	--	--	7.8	< 1.0 U	< 3.0 U	--	--	26700	31500
	8/17/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	2.6	< 1.0 U	< 3.0 U	--	--	19600	26700
	2/14/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	3460	8720
	8/10/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	2860 J	5770
	2/5/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	7570 J	9240
	2/5/2013	FD	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	7920 J	9530
	8/8/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	11500 J	18900
	2/4/2014	N	< 0.100 U	0.0446 J	--	--	--	3.4	< 1.0 U	< 1.0 U	--	--	59700	60200
	8/6/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	2620	5120
	8/6/2014	FD	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	2620	5250

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Appendix E
Historical Analytical Data (through 2017)
2021 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant

Chemical Name			Arsenic	Chromium	Chromium, Hexavalent	Iron	Manganese	Benzene	Ethylbenzene	Total Xylenes	DRO (C10-C28)	GRO (C6-C10)	Chloride	Total Dissolved Solids
Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
MWD-2	2/4/2015	N	< 0.0200 U	**0.0018 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**1900**	**4250**
	8/10/2015	N	**0.0103 J**	**0.0016 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**2060**	**4470**
	4/1/2016	N	< 0.01 U	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**1630**	**2910**
	9/9/2016	N	**0.0124**	< 0.00136 U	--	**0.0188 J**	**0.162**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.987 U	< 0.987 U	**1570**	**3130**
	4/5/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	< 1 U	**0.105**	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**1200**	**2370**
MWD-3	2/11/2009	N	< 0.100 U	< 0.0150 U	--	--	--	**4100**	**160**	**87**	--	--	**48100**	**82200**
	8/18/2009	N	< 0.100 U	< 0.0750 U	--	--	--	**4100**	**120**	< 30 U	--	--	**48200**	**84000**
	2/2/2010	N	< 0.100 U	< 0.150 U	--	--	--	**2400**	**88**	**44.0**	--	--	**57800**	**89600**
	8/3/2010	N	< 0.200 U	< 0.150 U	--	--	--	**2100**	**81**	**32**	--	--	**55300**	**89000**
	2/6/2015	N	--	--	--	--	--	--	--	--	--	--	**38500**	**58600**
	4/29/2016	N	< 0.01 U	**0.0127**	< 0.01 U	--	--	**2330**	**42.6**	**27.4**	< 1.5 U	**4.21**	**39900**	**64900**
MWD-4	2/5/2009	N	**0.0275**	< 0.0150 U	--	--	--	**2.8**	**11**	**9.2**	--	--	**237**	**1170**
	8/6/2009	N	**0.0344**	< 0.0150 U	--	--	--	**1.0**	< 1.0 U	< 3.0 U	--	--	**310**	**1440**
	2/5/2010	N	**0.0382**	< 0.0150 U	--	--	--	**8.1**	**1.3**	< 3.0 U	--	--	**270**	**1250**
	8/20/2010	N	**0.0331**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**328**	**1490**
	4/14/2011	N	**0.0324**	< 0.0150 U	--	--	--	**4.5**	**1.4**	< 3.0 U	--	--	**1620**	**2230**
	8/17/2011	N	**0.0257**	< 0.0150 U	--	--	--	**5.7**	**2.4**	< 3.0 U	--	--	**729**	**2030**
	2/9/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**73.4**	**902**
	8/9/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**50.4 J**	**910**
	2/6/2013	N	**0.0222**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**44.5 J**	**1030**
	8/6/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**50.4**	**1380**
	2/4/2014	N	**0.0154 J**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**45.7**	**1190**
	8/5/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**53.8**	**1220**
	2/3/2015	N	< 0.0200 U	**0.0017 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**52.7**	**916**
	8/7/2015	N	**0.0117 J**	**0.0019 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**49.9**	**1260**
	3/31/2016	N	< 0.01 U	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**68.4**	**1100**
	9/7/2016	N	**0.0527**	< 0.00136 U	< 0.01 U	**12.2**	**1.02**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	**59.6**	**1260**
	4/4/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	**0.105 J**	**0.608**	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**45.5**	**872**
	9/12/2017	N	**0.00158 J**	< 0.004 U	**0.0039 J**	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**48.4**	**1290**
MWD-5	2/12/2009	N	**0.0880**	< 0.0150 U	--	--	--	**5000**	**470**	**110**	--	--	**1830**	**3780**
	8/12/2009	N	**0.116**	< 0.0150 U	--	--	--	**5700**	< 250 U	< 750 U	--	--	**2240**	**4530**
	2/9/2010	N	**0.143**	< 0.0150 U	--	--	--	**4800**	< 250 U	< 750 U	--	--	**1710**	**4510**
	8/6/2010	N	**0.106**	< 0.0150 U	--	--	--	**3500**	**280**	**58**	--	--	**1960**	**3970**
	4/15/2011	N	**0.133**	< 0.0150 U	--	--	--	**4600**	**420**	< 750 U	--	--	**2050**	**4480**
	8/15/2011	N	**0.0930**	< 0.0150 U	--	--	--	**4400**	**450**	**49**	--	--	**2070**	**3600**
	8/8/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	**5000**	**200**	**150**	--	--	**2010**	**2520**
	2/8/2013	N	**0.0203**	< 0.0150 U	--	--	--	**5800**	**310 J**	**86 J**	--	--	**1070 J**	**2700**
	8/8/2013	N	**0.0698**	< 0.0150 U	--	--	--	**4800 J**	**180 J**	**27 J**	--	--	**2000**	**3650**
	8/8/2013	FD	**0.0651**	< 0.0150 U	--	--	--	**4800**	**190**	< 60 UJ	--	--	**2000**	**3690**
	2/7/2014	N	**0.0293**	**0.0018 J**	--	--	--	**5500 J**	**33 J**	**47 J**	--	--	**1120**	**2520**
	8/11/2014	N	**0.948 J**	< 0.0150 UJ	--	--	--	< 5000 U	< 5000 U	< 5000 U	--	--	**3260**	**9560**
	2/9/2015	N	**0.0204**	< 0.0150 U	--	--	--	**5800**	**95**	**120**	--	--	**603**	**1690**
	8/5/2015	N	**0.0205**	**0.0017 J**	--	--	--	**7400**	**35 J**	**73 J**	--	--	**565 J**	**2200 J**
	3/31/2016	N	**0.0148**	< 0.01 U	< 0.01 U	--	--	**5200**	< 40 U	**57**	< 1.41 U	**13**	**404**	**1750**
	3/31/2016	FD	**0.0156**	< 0.01 U	< 0.01 U	--	--	**3800**	**32.5**	**44.1**	< 1.41 U	**12.6**	**404**	**1660**
	9/7/2016	N	**0.0192**	< 0.00136 U	**0.0055 J**	**5.33**	**0.238**	**7180**	**58.5 J**	**70 J**	**9.02**	**15.4**	**421**	**1790**
	9/7/2016	FD	**0.014**	< 0.00136 U	< 0.01 U	**5.39**	**0.248**	**7050**	**73.5 J**	**88.5 J**	**14.5**	**17**	**486**	**1800**
	1/31/2017	N	--	--	--	--	--	--	--	--	--	--	**512**	**1980**

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Appendix E
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Former Eunice South Gas Plant

Chemical Name			Arsenic	Chromium	Chromium, Hexavalent	Iron	Manganese	Benzene	Ethylbenzene	Total Xylenes	DRO (C10-C28)	GRO (C6-C10)	Chloride	Total Dissolved Solids
Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
MWD-5	4/5/2017	N	< 0.05 U	< 0.05 U	--	**0.2 J**	**0.248 J**	**5050**	< 100 U	**62.5 J**	**5.36**	**3.73**	**448**	**1840**
	4/7/2017	N	--	--	**0.0048 J**	--	--	--	--	--	--	--	--	--
MWD-6	2/12/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	**5.8**	**8.3**	< 3.0 U	--	--	**237**	**822**
	8/7/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	**71**	**61**	**4.9**	--	--	**995**	**2800**
	8/7/2009	FD	< 0.0200 U	< 0.0150 U	--	--	--	**69**	**59**	< 6.0 U	--	--	**1010**	**2760**
	2/5/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	**370**	**43**	**6.1**	--	--	**948**	**2550**
	8/20/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	**160**	**44**	**6.5**	--	--	**1020**	**2400**
	4/15/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	**270**	**2.9**	< 3.0 U	--	--	**1030**	**2420**
	8/15/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	**170**	**100**	**4.0**	--	--	**1170**	**2130**
	2/9/2012	N	**0.0329**	< 0.0150 U	--	--	--	**1.9**	< 1.0 U	< 3.0 U	--	--	**1400**	**6620**
	8/8/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	**84**	**21**	**3.7**	--	--	**507**	**1880**
	8/8/2012	FD	< 0.0200 U	< 0.0150 U	--	--	--	**86**	**26**	**3.9**	--	--	**608 J**	**1860**
	2/8/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	**3.2**	**15**	< 3.0 U	--	--	**413 J**	**1820**
	8/7/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	**3.4**	**6.2**	< 3.0 U	--	--	**427**	**1520**
	2/6/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	**32**	**20**	**2.8**	--	--	**621 J**	**1550**
	8/8/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	**5.4**	< 2.0 U	--	--	**261**	**1460 J**
	2/9/2015	N	< 0.0200 U	< 0.0150 U	--	--	--	**12**	**17**	< 1.3 U	--	--	**260**	**1300**
	8/4/2015	N	< 0.0200 U	**0.0016 J**	--	--	--	< 1.0 U	**2.8**	**0.3 J**	--	--	**229 J**	**1540 J**
	3/31/2016	N	< 0.01 U	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**237**	**1370**
	9/7/2016	N	**0.00504 J**	< 0.00136 U	< 0.01 U	**2.33**	**0.189**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	**193**	**2340**
	4/5/2017	N	< 0.05 U	< 0.05 U	--	**0.106 J**	**0.239 J**	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	< 5 U	**1260**
	4/7/2017	N	--	--	< 0.01 U	--	--	--	--	--	--	--	--	--
	9/13/2017	N	**0.00345**	< 0.004 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**183**	**1310**
MWD-7	2/11/2009	N	< 0.020 U	< 0.0150 U	--	--	--	**2.3**	**2.8**	< 3.0 U	--	--	**7940**	**14700**
	8/6/2009	N	< 0.0200 U	< 0.0150 U	--	--	--	**2.9**	< 1.0 U	< 3.0 U	--	--	**7610**	**16600**
	2/8/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**8040**	**15100**
	8/4/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	**11**	**1.2**	< 3.0 U	--	--	**7630**	**14100**
	4/14/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	**9.4**	**2.3**	< 3.0 U	--	--	**7870**	**14800**
	8/17/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	**4.5**	**1.8**	< 3.0 U	--	--	**8880**	**14600**
	2/16/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**10200**	**25100**
	8/13/2012	N	**0.0266**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**7220 J**	**13600**
	2/6/2013	N	**0.0205**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**6140 J**	**11000**
	8/7/2013	N	**0.0214**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**5830**	**12400**
	2/4/2014	N	**0.0229 J**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**7010 J**	**10700**
	2/4/2014	FD	**0.0139 J**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**45.2 J**	**1380**
	8/6/2014	N	**0.0229**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**5650**	**10900 J**
	2/6/2015	N	**0.0159 J**	**0.0032 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**5240**	**7560**
	2/6/2015	FD	**0.0131 J**	**0.0025 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**5170**	**9080**
	8/12/2015	N	**0.0198 J**	**0.0018 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**4940**	**10600**
	3/31/2016	N	**0.0363**	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**5020**	**10800**
	9/9/2016	N	< 0.00336 U	< 0.00136 U	--	**0.021 J**	**0.319**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	**7210**	**12100**
	4/4/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	< 1 U	**0.324**	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**5130**	**9590**
	9/13/2017	N	**0.0146**	**0.00116 J**	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**5900**	**10400**
MWD-8	2/10/2009	N	< 0.020 U	< 0.0150 U	--	--	--	**7.0**	**4.8**	< 3.0 U	--	--	**9390**	**18400**
	8/11/2009	N	< 0.0200 U	**0.0222**	--	--	--	**3.3**	**2.2**	**4.7**	--	--	**8570**	**16300**
	2/8/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	**1.2**	< 1.0 U	< 3.0 U	--	--	**11100**	**20000**
	8/5/2010	N	< 0.0200 U	< 0.0150 U	--	--	--	**1.1**	< 1.0 U	< 3.0 U	--	--	**10000**	**17500**
	4/15/2011	N	< 0.0200 U	**0.0164**	--	--	--	**4.1**	< 1.0 U	< 3.0 U	--	--	**15100**	**20700**

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ARCADIS Design & Consultancy for natural and built assets

Chemical Name			Arsenic	Chromium	Chromium, Hexavalent	Iron	Manganese	Benzene	Ethylbenzene	Total Xylenes	DRO (C10-C28)	GRO (C6-C10)	Chloride	Total Dissolved Solids
Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
MWD-8	8/17/2011	N	< 0.0200 U	< 0.0150 U	--	--	--	**4.4**	**1.8**	< 3.0 U	--	--	**8840**	**12400**
	2/13/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**336**	**1400**
	8/9/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**980**	**2220**
	2/6/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**824 J**	**1800**
	8/8/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1190 J**	**2630**
	2/4/2014	N	**0.0120 J**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**1140 J**	**2210**
	8/6/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**968**	**2000**
	2/4/2015	N	**0.0121 J**	**0.0016 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**571**	**1260**
	2/4/2015	FD	**0.0164 J**	**0.0020 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**416**	**1080**
	8/6/2015	N	**0.0112 J**	**0.0027 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**474**	**1270**
	4/1/2016	N	**0.0101**	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**305**	**854**
	9/12/2016	N	**0.0055 J**	< 0.00136 U	--	< 0.00616 U	< 0.000585 U	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	**251**	**864**
	4/4/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	< 1 U	< 0.1 U	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**177**	**540**
	9/13/2017	N	**0.0141**	**0.000796 J**	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**220**	**884**
MWD-9	2/11/2009	N	< 0.100 U	< 0.0150 U	--	--	--	**10**	**1.4**	< 3.0 U	--	--	**22700**	**39300**
	8/17/2009	N	< 0.100 U	< 0.0750 U	--	--	--	**13**	**1.0**	< 3.0 U	--	--	**20900**	**39600**
	2/2/2010	N	< 0.100 U	< 0.0750 U	--	--	--	**15**	**1.2**	< 3.0 U	--	--	**23800**	**39500**
	8/3/2010	N	**0.0245**	< 0.0750 U	--	--	--	**8.6**	< 5.0 U	< 15 U	--	--	**20900**	**37400**
	2/6/2015	N	--	--	--	--	--	--	--	--	--	--	**19600**	**29400**
	8/13/2015	N	**0.0271**	**0.0088 J**	--	--	--	**24**	**2.0**	**2.4**	--	--	**18300**	**45700 J**
	8/13/2015	FD	**0.0273**	**0.0090 J**	--	--	--	**26**	**2.0**	**2.8**	--	--	**22900**	**98000 J**
	3/31/2016	N	**0.0431**	< 0.01 U	< 0.01 U	--	--	**17.2**	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**2690**	**34800**
	9/9/2016	N	< 0.00336 U	< 0.00136 U	--	**0.111 J**	**0.611**	**22.2**	**0.88 J**	< 0.642 U	**2.92**	< 0.986 U	**18000**	**31600**
	4/4/2017	N	< 0.05 U	< 0.05 U	--	< 1 U	**0.629**	**20.1**	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**18700**	**33300**
	4/7/2017	N	--	--	< 0.01 U	--	--	--	--	--	--	--	--	--
	9/14/2017	N	**0.0172**	**0.00738**	< 0.01 U	--	--	**53.3**	**2.07**	**2.18**	< 1.5 U	< 1.5 U	**19300**	**32800**
RW-6	2/11/2009	N	**0.0252**	< 0.0150 U	--	--	--	**15**	**4.8**	**7.4**	--	--	**26700**	**44800**
	8/17/2009	N	< 0.100 U	< 0.0750 U	--	--	--	**23**	**9.5**	**11**	--	--	**32400**	**61300**
	2/2/2010	N	< 0.100 U	< 0.0750 U	--	--	--	**16**	**4.0**	**6.7**	--	--	**22100**	**37800**
	8/3/2010	N	< 0.100 U	< 0.0750 U	--	--	--	**30**	**8.5**	**19**	--	--	**30800**	**52600**
	8/9/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 8.0 U	**3.8**	**23**	--	--	**1930 J**	**3840**
	2/5/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	< 25 U	**7.5**	**25**	--	--	**1470**	**3330**
	8/7/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	< 30 U	**6.4**	**6.7**	--	--	**1530**	**3530**
	2/10/2015	N	< 0.0200 U	< 0.0150 U	--	--	--	< 31 U	**40**	**35**	--	--	**1020**	**2240**
	8/12/2015	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	**5.0**	--	--	**959**	**2820**
	3/31/2016	N	< 0.01 U	< 0.01 U	< 0.01 U	--	--	**9.49**	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**488**	**1600**
	9/7/2016	N	< 0.00336 U	< 0.00136 U	< 0.01 U	**2.81**	**0.063**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	**502**	**1150**
	4/6/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	**0.203 J**	**0.111 J**	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**396**	**2040**
	9/14/2017	N	**0.0652**	**0.000638 J**	< 0.01 U	--	--	**3090**	**104**	**89.9**	**4.86**	**2.91**	**337**	**1600**
RW-7	2/12/2009	N	< 0.100 U	**0.0278**	--	--	--	**13**	**3.7**	**3.4**	--	--	**46900**	**115000**
	8/17/2009	N	< 0.100 U	< 0.0750 U	--	--	--	**17**	**4.5**	**3.8**	--	--	**58600**	**104000**
	2/2/2010	N	< 0.100 U	< 0.150 U	--	--	--	**16**	**5.7**	**4.6**	--	--	**62500**	**98000**
	8/3/2010	N	< 0.100 U	< 0.0750 U	--	--	--	**18**	**3.5**	**18**	--	--	**41100**	**66400**
	8/9/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	**330**	< 1.0 U	< 3.0 U	--	--	**18000 J**	**30400**
	2/5/2014	N	**0.0146 J**	**0.0016 J**	--	--	--	**54**	< 1.0 U	**0.4 J**	--	--	**12900**	**19600**
	8/7/2014	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**3020**	**5840 J**
	2/10/2015	N	**0.0172 J**	**0.0024 J**	--	--	--	**0.2 J**	< 1.0 U	< 1.0 U	--	--	**3750**	**5510**
	8/12/2015	N	**0.0098 J**	**0.0021 J**	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**2480**	**6530**

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Appendix E
Historical Analytical Data (through 2017)
2021 Annual Groundwater Monitoring Report
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ARCADIS Design & Consultancy for natural and built assets

Chemical Name			Arsenic	Chromium	Chromium, Hexavalent	Iron	Manganese	Benzene	Ethylbenzene	Total Xylenes	DRO (C10-C28)	GRO (C6-C10)	Chloride	Total Dissolved Solids
Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
RW-7	3/31/2016	N	**0.0209**	< 0.01 U	< 0.01 U	--	--	**4.22**	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**4100**	**7500**
	9/7/2016	N	< 0.00336 U	< 0.00136 U	< 0.01 UX	**0.013 J**	**0.666**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.987 U	< 0.987 U	**5850**	**12300**
	4/6/2017	N	< 0.05 U	< 0.05 U	< 0.01 U	< 1 U	**0.61 J**	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**5180 J**	**10000 J**
	4/6/2017	FD	< 0.05 U	< 0.05 U	**0.0054 J**	< 1 U	**0.0547 J**	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**2730 J**	**5750 J**
	9/14/2017	N	**0.00754**	**0.000949 J**	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**4740**	**9050**
RW-8	2/12/2009	N	**0.0216**	< 0.0150 U	--	--	--	**95**	**19**	**220**	--	--	**12100**	**22900**
	10/1/2009	N	**0.0212**	< 0.0150 U	--	--	--	**19**	**7.1**	**110**	--	--	**10700**	**20800**
	2/9/2010	N	**0.0243**	< 0.0150 U	--	--	--	**57**	**23**	**190**	--	--	**12600**	**22200**
	8/20/2010	N	< 0.100 U	< 0.0750 U	--	--	--	**17**	**2.7**	< 3.0 U	--	--	**31800**	**57100**
	8/8/2013	N	**0.0454**	< 0.0150 U	--	--	--	< 1.0 U	**2.9**	**23**	--	--	**5950 J**	**11500**
	2/5/2014	N	**0.0161 J**	< 0.0150 U	--	--	--	**0.4 J**	**2.2**	**27**	--	--	**10100**	**19100**
	2/5/2014	FD	**0.0167 J**	< 0.0150 U	--	--	--	**0.4 J**	**2.3**	**27**	--	--	**9700 J**	**15500**
	8/7/2014	N	**0.152**	< 0.0150 U	--	--	--	< 1.0 U	< 2.0 U	< 3.0 U	--	--	**1870**	**4380**
	2/5/2015	N	**0.0391**	**0.0014 J**	--	--	--	< 1.0 U	< 1.0 U	**1.6**	--	--	**1420**	**2860**
	8/10/2015	N	**0.0730 J**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	**2.2**	--	--	**1360**	**3400**
	8/10/2015	FD	**0.0851 J**	**0.0020 J**	--	--	--	< 1.0 U	< 1.0 U	**2.4**	--	--	**1510**	**3530**
	4/1/2016	N	**0.0426**	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**1310**	**2410**
	4/1/2016	FD	**0.0406**	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**1230**	**2380**
	9/9/2016	N	**0.0656**	< 0.00136 U	--	**12.4**	**0.434**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.986 U	< 0.986 U	**1250**	**2110**
	4/4/2017	N	< 0.05 U	< 0.05 U	--	**0.26 J**	**0.369**	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**1220**	**2510**
	4/7/2017	N	--	--	< 0.01 U	--	--	--	--	--	--	--	--	--
TMW-1	2/10/2009	N	**0.0585**	< 0.0150 U	--	--	--	--	--	--	--	--	**1840**	**3620**
	8/12/2009	N	**0.0481**	< 0.0150 U	--	--	--	--	--	--	--	--	**1070**	**2130**
	2/12/2010	N	**0.0500**	< 0.0150 U	--	--	--	--	--	--	--	--	**369**	**1130**
	8/9/2010	N	**0.0444**	< 0.0150 U	--	--	--	**9.0**	< 1.0 U	**4.4**	--	--	**368**	**1130**
	4/6/2011	N	**0.0437**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**2290**	**4430**
	8/9/2011	N	**0.0340**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1990**	**3440**
	2/15/2012	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1170**	**3310**
	8/9/2012	N	**0.0225**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1210**	**2380**
	2/7/2013	N	**0.0203**	< 0.0150 U	--	--	--	**4.0**	< 1.0 U	< 3.0 U	--	--	**1060 J**	**2500**
	8/12/2013	N	< 0.0200 U	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1100**	**2250**
	2/5/2014	N	**0.0224 J**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	**1.8**	--	--	**1090 J**	**2610**
	8/12/2014	N	**0.0241**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 1.0 U	--	--	**875**	**1930**
	2/5/2015	N	**0.0117 J**	**0.0017 J**	--	--	--	**14**	**0.4 J**	**1.8**	--	--	**833**	**1710**
	8/10/2015	N	**0.0186 J**	**0.0022 J**	--	--	--	**1 J**	< 1.0 U	< 1.0 U	--	--	**842**	**1990**
	4/1/2016	N	**0.0172**	< 0.01 U	**0.0135**	--	--	**2.53**	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**761**	**1950**
	9/12/2016	N	**0.0122**	< 0.00136 U	--	**11.5**	**1.21**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.987 U	**1.04 J**	**748**	**1830**
	4/7/2017	N	< 0.05 U	< 0.05 U	**0.0125**	**0.442 J**	**1.18**	**5.59**	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**757**	**1970**
	4/7/2017	FD	< 0.05 U	**0.00707 J**	**0.0116**	**0.342 J**	**1.15**	**5.29**	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**712**	**1720**
	9/13/2017	N	**0.0195**	**0.000722 J**	< 0.01 U	--	--	**31.6**	**1.42 J**	**3.53**	< 1.5 U	< 1.5 U	**685**	**1600**
TMW-3	2/17/2010	N	**0.0577**	< 0.0150 U	--	--	--	**4**	**0.2**	< 3.0 U	--	--	**383**	**1320**
	8/12/2010	N	**0.0501**	< 0.0150 U	--	--	--	**3.0**	**2.2**	**9.3**	--	--	**318**	**1200**
	4/8/2011	N	**0.0511**	< 0.0150 U	--	--	--	**4.3**	**1.6**	< 3.0 U	--	--	**333**	**1170**
	8/16/2011	N	**0.0549**	< 0.0150 U	--	--	--	**1.8**	< 1.0 U	< 3.0 U	--	--	**855**	**1740**
	2/15/2012	N	**0.0393**	< 0.0150 U	--	--	--	< 1.0 U	< 1.0 U	< 3.0 U	--	--	**1190**	**2120**
	8/14/2012	N	**0.0357**	< 0.0150 U	--	--	--	**6.6**	**3.1**	**9.2**	--	--	**345 J**	**1180**
	2/7/2013	N	**0.0336**	< 0.0150 U	--	--	--	**2.5**	**1.2**	**5.0**	--	--	**381 J**	**1390**
	8/9/2013	N	**0.0279**	< 0.0150 U	--	--	--	**6.4**	**1.4**	< 3.0 U	--	--	**344**	**1090**

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Chemical Name			Arsenic	Chromium	Chromium, Hexavalent	Iron	Manganese	Benzene	Ethylbenzene	Total Xylenes	DRO (C10-C28)	GRO (C6-C10)	Chloride	Total Dissolved Solids
Units			mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
NMWQCC Standard			0.01	0.05	0.05	1	0.2	10	750	620	--	--	250	1000
Location ID	Sample Date	Sample Type												
TMW-3	2/6/2014	N	**0.0181 J**	< 0.0150 U	--	--	--	**18**	**1.5**	**7.3**	--	--	**237**	**1070**
	8/13/2014	N	**0.0442 J**	< 0.0150 UJ	--	--	--	**3.8**	< 1.0 U	< 1.0 U	--	--	**670**	**1620**
	2/11/2015	N	**0.0222**	< 0.0150 U	--	--	--	**34**	**1.8**	< 3.0 U	--	--	**360**	**1020**
	8/11/2015	N	**0.0215**	< 0.0150 U	--	--	--	**17**	**1.9**	**3.1**	--	--	**309**	**1070**
	4/1/2016	N	**0.0434**	< 0.01 U	< 0.01 U	--	--	**5.88**	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**310**	**1140**
	9/12/2016	N	**0.0393**	< 0.00136 U	--	**11.3**	**0.49**	**10.1**	< 0.657 U	< 0.642 U	< 0.987 U	**1.23 J**	**297**	**1180**
	4/6/2017	N	< 0.05 U	< 0.05 U	**0.0063 J**	**0.47 J**	**0.491 J**	**6.89**	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**325**	**1130**
TMW-5	2/18/2009	N	**0.0669**	< 0.0150 U	--	--	--	**2200**	**110**	**41**	--	--	**4780**	**7660**
	8/10/2009	N	**0.0372**	< 0.0150 U	--	--	--	**4700**	**140**	**5.3**	--	--	**2970**	**6830**
	2/10/2010	N	**0.0302**	< 0.0150 U	--	--	--	**4400**	**210**	**15**	--	--	**3120**	**6120**
	8/11/2010	N	**0.0341**	< 0.0150 U	--	--	--	**2800**	**180**	< 30 U	--	--	**2660**	**5450**
	8/11/2010	FD	**0.0324**	< 0.0150 U	--	--	--	**3100**	**190**	**5.0**	--	--	**2660**	**5540**
	4/7/2011	N	**0.0454**	< 0.0150 U	--	--	--	**1900**	**180**	**3.4**	--	--	**3210**	**5910**
	8/9/2011	N	**0.0312**	< 0.0150 U	--	--	--	**1400**	**100**	**15**	--	--	**3470**	**6030**
TMW-6	2/17/2009	N	**0.0724**	< 0.0150 U	--	--	--	**3700**	**420**	**210**	--	--	**437**	**1440**
	8/11/2009	N	**0.0712**	< 0.0150 U	--	--	--	**3800**	**200**	**8.5**	--	--	**177**	**1140**
	2/16/2010	N	**0.0930**	< 0.0150 U	--	--	--	**2600**	**350**	**11**	--	--	**657**	**1850**
	4/7/2011	N	**0.0867**	< 0.0150 U	--	--	--	**2500**	**310**	**4.8**	--	--	**515**	**1430**
	8/9/2011	N	**0.0585**	< 0.0150 U	--	--	--	**4700**	**400**	**25**	--	--	**345**	**1310**
	2/10/2012	N	**0.0445**	< 0.0150 U	--	--	--	**600**	**140**	**29**	--	--	**684**	**1940**
	8/14/2012	N	**0.0504**	< 0.0150 U	--	--	--	**4900**	**640**	**29**	--	--	**603 J**	**1550**
	2/11/2013	N	**0.0568**	< 0.0150 U	--	--	--	**4900**	**470**	**31**	--	--	**516**	**1760**
	8/9/2013	N	**0.0366**	< 0.0150 U	--	--	--	**1400**	**230 J**	**7.8 J**	--	--	**755**	**1930**
	2/6/2014	N	**0.0295**	< 0.0150 U	--	--	--	**1700**	**570**	**22**	--	--	**239**	**1570**
	8/13/2014	N	< 0.0200 UJ	< 0.0150 UJ	--	--	--	**8.1**	**3.5**	< 5.0 U	--	--	**1270**	**2280**
	2/11/2015	N	**0.0386**	**0.0016 J**	--	--	--	**2600**	**6.5 J**	**23**	--	--	**411**	**1380**
	8/11/2015	N	**0.0401**	< 0.0150 U	--	--	--	**3600 J**	**6.5 J**	**4.1 J**	--	--	**436**	**1590**
	4/1/2016	N	**0.056**	< 0.01 U	< 0.01 U	--	--	**345**	< 2 U	< 2 U	**1.63**	**3.01**	**257**	**1300**
	4/1/2016	FD	**0.0553**	< 0.01 U	< 0.01 U	--	--	**341**	< 2 U	< 2 U	**1.47**	**2.86**	**254**	**1360**
	9/12/2016	N	**0.0516**	< 0.00136 U	--	**6.7**	**0.0241**	**1370 D**	**31.3**	**7.31**	**2.55**	**3.14**	**324**	**1530**
	9/12/2016	FD	**0.0573**	< 0.00136 U	--	**6.62**	**0.0239**	**1220 D**	**25.7**	**4.74**	**2.82**	**3.29**	**320**	**1540**
	4/6/2017	N	**0.046 J**	**0.00768 J**	**0.0078 J**	**0.28 J**	**0.0301 J**	**446**	< 10 U	< 10 U	**3.18**	**1.53**	**318**	**1260**
	9/14/2017	N	**0.00275**	< 0.004 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**519**	**2640**
WW-2	3/30/2016	N	< 0.01 U	< 0.01 U	< 0.01 U	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**304**	**652**
	9/6/2016	N	< 0.00336 U	< 0.00136 U	< 0.01 U	**0.109 J**	**0.134**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.987 U	< 0.987 U	**287**	**627**
	4/5/2017	N	< 0.05 U	< 0.05 U	--	< 1 U	**0.0806 J**	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**352 J**	**546**
	4/7/2017	N	--	--	< 0.01 U	--	--	--	--	--	--	--	--	--
WW-3	4/7/2017	N	< 0.05 U	< 0.05 U	**0.0105**	**0.24 J**	**0.211**	**40.3**	**5.01**	< 2 U	< 1.5 U	< 1.5 U	**207**	**468**
WW-7	3/30/2016	N	< 0.01 U	< 0.01 U	**0.0148**	--	--	< 2 U	< 2 U	< 2 U	< 1.41 U	< 1.41 U	**266**	**548**
	9/6/2016	N	< 0.00336 U	< 0.00136 U	< 0.01 U	**3.14**	**0.583**	< 0.408 U	< 0.657 U	< 0.642 U	< 0.987 U	< 0.987 U	**563**	**511**
	4/4/2017	N	< 0.05 U	< 0.05 U	--	< 1 U	**0.389**	< 2 U	< 2 U	< 2 U	< 1.5 U	< 1.5 U	**270 J**	**458**
	4/7/2017	N	--	--	< 0.01 U	--	--	--	--	--	--	--	--	--

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Appendix E
Historical Analytical Data (through 2017)
2020 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant

Notes:

NMWQCC Standard exceedance

Detected analytes are **bolded**.

-- = not applicable/not analyzed

< = less than

DRO = diesel range organics

FD = field duplicate sample

GRO = gasoline-range organics

ID = identification

mg/l = milligrams per liter

N = normal sample

NMWQCC = New Mexico Water Quality Control Commission

TDS = total dissolved solids

ug/l = micrograms per liter

Qualifiers:

D = compounds identified at a secondary dilution factor

J = estimated value

U = analyte was not detected

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APPENDIX F

Historical Analytical Data (2017 to current)

Appendix F
Historical Groundwater Analytical Results
2023 Annual GWM Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

ARCADIS

		Parameter Name	Arsenic	Chromium	Chromium, Hexavalent	Iron	Barium	Manganese	Chloride	Total Dissolved Solids
		Report Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		NMWQCC Domestic	0.01	0.05	0.05	1.0	2.0	0.2	250	1000
Location ID	Date Sampled	Sample Purpose								
MW-1	2/23/2022	REG	0.0248	<0.00400 U	<0.0100 U	--	0.912	--	477	1,340
MW-1	2/23/2022	FD	0.0252	<0.00400 U	<0.0100 U	--	0.918	--	474	1,450
MW-11	4/6/2017	REG	< 0.0500 U	< 0.0500 U	0.00780 J	0.219 J	--	0.142 J	128	1,060
MW-11	9/14/2017	REG	0.0118	0.000585 J	< 0.0100 U	--	0.841	--	91	900
MW-11	3/19/2018	REG	0.0125	0.000888 J	< 0.0100 U	--	0.779	--	104	852
MW-11	3/19/2018	FD	0.0109	< 0.00400 U	< 0.0100 U	--	0.676	--	105	935
MW-11	9/28/2018	REG	0.021	< 0.00400 U	< 0.0100 U	--	1.19	--	120	942
MW-11	4/4/2019	REG	0.0182	0.00989	< 0.0100 U	--	0.614	--	78.0 J	815
MW-11	4/4/2019	FD	0.0122	0.00543	< 0.0100 U	--	0.631	--	93.1 J	844
MW-11	10/4/2019	REG	0.0143	0.00340 J	< 0.0100 U	--	0.472	--	92.9	692
MW-11	3/20/2020	REG	0.0249	< 0.00400 U	< 0.0100 U	--	1.26	--	133	974
MW-11	9/23/2020	REG	0.0294	< 0.00400 U	< 0.0100 UJ	--	1.05	--	117	972
MW-11	3/19/2021	REG	0.0324	< 0.00400 U	< 0.0100 U	--	1.02	--	117	994
MW-11	9/21/2021	REG	0.0326	< 0.00400 U	< 0.0100 U	--	1.00	--	91.8	1,010
MW-11	2/25/2022	REG	0.0290	<0.00400 U	<0.0100 U	--	1.14	--	66.7	826
MW-11	9/29/2022	REG	0.0314	<0.00400 U	<0.0100 U	--	1.47	--	114	1,060
MW-11	3/3/2023	REG	0.0334	0.000602 J	0.00448 J	--	1.64	--	154	1,020
MW-11	11/1/2023	REG	0.0332	<0.0200 U	--	--	1.69	--	--	1,210
MW-13	4/5/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	< 1.00 U	--	0.0182 J	343	976
MW-13	3/14/2018	REG	0.016	0.000616 J	< 0.0100 U	--	0.102	--	336	1,030
MW-13	9/25/2018	REG	0.0165	0.00114 J	< 0.0100 U	--	0.102	--	339	980
MW-13	4/2/2019	REG	0.0139	< 0.00400 U	< 0.0100 U	--	0.0935	--	349	1,060
MW-13	10/1/2019	REG	0.0161	0.000672 J	< 0.0100 U	--	0.0981	--	332	1,130
MW-13	3/18/2020	REG	0.0169	< 0.00400 U	< 0.0100 U	--	0.100	--	342	1140
MW-13	3/16/2021	REG	0.0158	< 0.00400 U	< 0.0100 U	--	0.0908	--	370	1,510
MW-13	2/23/2022	REG	0.0156	0.000589 J	<0.0100 U	--	0.0831	--	337	1,290
MW-13	3/1/2023	REG	0.0159	<0.00400 U	<0.0100 U	--	0.115	--	325	1,120
MW-14	4/5/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	< 1.00 U	--	0.835	489	1,560
MW-14	9/13/2017	REG	0.00699	< 0.00400 U	< 0.0100 U	--	0.0691	--	486	1,640
MW-14	3/13/2018	REG	0.0077	< 0.00400 U	< 0.0100 U	--	0.0644	--	516	1,500
MW-14	3/13/2018	FD	0.00764	< 0.00400 U	< 0.0100 U	--	0.0637	--	498	1,440
MW-14	9/26/2018	REG	0.00827	< 0.00400 U	< 0.0100 U	--	0.0786	--	527	1,470
MW-14	4/3/2019	REG	0.00933	0.157	< 0.0100 U	--	0.076	--	496	1,520
MW-14	10/2/2019	REG	0.00787	< 0.00400 U	< 0.0100 U	--	0.0726	--	512	1,630
MW-14	3/18/2020	REG	0.00862	< 0.00400 U	< 0.0100 U	--	0.0793	--	504	2100
MW-14	3/16/2021	REG	0.00760	< 0.00400 U	< 0.0100 U	--	0.0877	--	550	1,650
MW-14	2/24/2022	REG	0.00867	<0.00400 U	<0.0100 U	--	NA	--	558	1,820
MW-14	3/1/2023	REG	0.0102	<0.00400 U	<0.0100 U	--	0.104	--	468	1,710
MW-15	4/5/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	< 1.00 U	--	0.0345 J	1,960	2,900
MW-15	9/13/2017	REG	0.0124	0.000535 J	< 0.0100 U	--	0.0481	--	2,040	4,590
MW-15	3/13/2018	REG	0.0135	< 0.00400 U	< 0.0100 U	--	0.0475	--	2,160	5,060
MW-15	9/25/2018	REG	0.0133	0.000735 J	< 0.0100 U	--	0.0533	--	2,320	3,910
MW-15	4/2/2019	REG	0.0142	0.00109 J	< 0.0100 U	--	0.0452	--	1,960	3,840
MW-15	10/2/2019	REG	0.0119	< 0.00400 U	< 0.0100 U	--	0.0452	--	1,890	3,930
MW-15	10/2/2019	FD	0.0122	< 0.00400 U	< 0.0100 U	--	0.0482	--	1,850	3,920
MW-15	3/17/2020	FD	0.0113	< 0.00400 U	< 0.0100 U	--	0.0506	--	1840	880 J
MW-15	3/17/2020	REG	0.0115	< 0.00400 U	< 0.0100 U	--	0.0447	--	1900	3690 J
MW-15	9/22/2020	FD	0.0116	< 0.00400 U	< 0.0100 U	--	0.0430 J	--	1590	3290
MW-15	9/22/2020	REG	0.0114	< 0.00400 U	< 0.0100 U	--	0.0430 J	--	1590	3320
MW-15	3/16/2021	REG	0.0115	< 0.00400 U	< 0.0100 U	--	0.0454	--	1,310	3,140
MW-15	3/16/2021	FD	0.0113	< 0.00400 U	< 0.0100 U	--	0.0450	--	968	3,680
MW-15	9/21/2021	REG	0.0113	0.000686 J	< 0.0100 U	--	0.0419	--	1,440	4,110
MW-15	9/21/2021	FD	0.0120	< 0.00400 U	< 0.0100 U	--	0.0443	--	1,510	4,220
MW-15	2/23/2022	REG	0.0149	0.00238 J	<0.0100 U	--	0.0816	--	1,290	3,240
MW-15	2/23/2022	FD	0.0136	0.00231 J	<0.0100 U	--	0.0760	--	1,220	2,960
MW-15	9/27/2022	REG	0.0117	0.000958 J	<0.0100 U	--	0.0319	--	1,260	3,320
MW-15	9/27/2022	FD	0.0124	0.000663 J	<0.0100 U	--	0.0392	--	1,260	3,280
MW-15	3/1/2023	REG	0.0121	<0.00400 U	<0.0100 U	--	0.0463	--	1,440	4,280
MW-15	3/1/2023	FD	0.0118	<0.00400 U	<0.0100 U J	--	0.0469	--	1,400	4,230
MW-15	10/31/2023	REG	0.0138 J	<0.0200 U	<0.0100 U	--	0.0433	--	1,380	4,660
MW-15	10/31/2023	FD	0.0149 J	<0.0200 U	<0.0100 U	--	0.0481	--	1,460	4,730
MW-16	4/5/2017	REG	< 0.0500 U	0.0955	0.106	< 1.00 U	--	< 0.100 U	1,880	3,810
MW-16	9/13/2017	REG	0.0129	0.11	0.0957	--	0.0448	--	1,880	4,230
MW-16	3/13/2018	REG	0.013	0.108	0.101	--	0.0406	--	2,150	3,930
MW-16	9/25/2018	REG	0.0144	0.111	< 0.0100 U	--	0.0423	--	2,090	3,880
MW-16	4/2/2019	REG	0.0136	0.111	0.0976	--	0.0417	--	1,780	3,760
MW-16	10/2/2019	REG	0.0136	0.107	0.0982	--	0.0394	--	1,930	3,970
MW-16	3/17/2020	REG	0.0135	0.115	0.104	--	0.0400	--	2120	4030
MW-16	9/22/2020	REG	0.0136	0.0972	0.0950	--	0.0356	--	1900	4040
MW-16	3/16/2021	REG	0.0130	0.102	0.103	--	0.0375	--	1,290	3,880
MW-16	9/21/2021	REG	0.0135	0.0909	0.0931	--	0.0371	--	1,780	4,180
MW-16	2/23/2022	REG	0.0128	0.0937	0.0897	--	0.0332	--	1,830	4,000
MW-16	9/27/2022	REG	0.0113	0.0776	0.084	--	0.0311	--	1,870	4,340
MW-16	3/1/2023	REG	0.0129	0.0979	0.0843	--	0.0478 J	--	1,790	4,840
MW-16	10/31/2023	REG	0.0147 J	0.088	0.0742	--	0.0387	--	1,750	4,480
MW-17	4/6/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	< 1.00 U	--	0.534 J	1,750	3,440
MW-17	9/13/2017	REG	0.0141	< 0.00400 U	< 0.0100 U	--	0.316	--	603	3,030
MW-17	9/13/2017	FD	0.0127	< 0.00400 U	< 0.0100 U	--	0.27	--	627	3,450
MW-17	3/14/2018	REG	0.00804	< 0.00400 U	< 0.0100 U	--	0.195	--	1,730	3,100
MW-17	9/25/2018	REG	0.00912	< 0.00400 U	< 0.0100 U	--	0.21	--	1,590	2,970
MW-17	4/3/2019	REG	0.0113	0.00141 J	< 0.0100 U	--	0.206	--	1,190	2,860
MW-17	10/3/2019	REG	0.00838	< 0.00400 U	< 0.0100 U	--	0.156	--	1,300	2,700
MW-17	3/19/2020	REG	0.0213	< 0.00400 U	< 0.0100 U	--	0.764	--	1060	2320
MW-17	9/22/2020	REG	0.0105	< 0.00400 U	< 0.0100 U	--	0.214 J	--	1140	2320
MW-17	3/18/2021	REG	0.0138	< 0.00400 U	< 0.0100 U	--	0.224	--	811	2,260
MW-17	9/21/2021	REG	0.0105	< 0.00400 U	< 0.0100 U	--	0.18	--	1,050	2,400
MW-17	2/24/2022	REG	0.00967	<0.00400 U	<0.0100 U	--	NA	--	874	2,190
MW-17	9/28/2022	REG	0.00758	0.00251 J	<0.0100 U	--	0.157	--	792	1,810
MW-17	3/2/2023	REG	0.0134	<0.00400 U	<0.0100 U	--	0.131	--	885	2,510
MW-17	11/1/2023	REG	0.00839	<0.00400 U	<0.0100 U	--	0.100	--	751	3,270
MW-18	4/4/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	< 1.00 U	--	< 0.100 U	231	730
MW-22	4/4/2017	REG	< 0.0500 U	< 0.0500 U	--	0.267 J	--	0.0947 J	2,310	4,050
MW-22	4/7/2017	REG	--	--	0.00380 J	--	--	--	--	--

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Appendix F
Historical Groundwater Analytical Results
2023 Annual GWM Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

ARCADIS

		Parameter Name	Arsenic	Chromium	Chromium, Hexavalent	Iron	Barium	Manganese	Chloride	Total Dissolved Solids
		Report Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		NMWQCC Domestic	0.01	0.05	0.05	1.0	2.0	0.2	250	1000
Location ID	Date Sampled	Sample Purpose								
MW-22	3/15/2018	REG	0.0371	< 0.00400 U	< 0.0100 U	--	0.982	--	2,440	5,530
MW-22	4/3/2019	REG	0.0554	0.00802	< 0.0100 U	--	0.654	--	1,670	4,900
MW-22	3/20/2020	REG	0.0711	0.000743 J	< 0.0500 U	--	0.851	--	1940	4600
MW-22	3/18/2021	REG	0.0481	0.000688 J	< 0.0100 U	--	0.810	--	2,300	5,750
MW-22	2/24/2022	REG	0.0451	0.000999 J	<0.0100 U	--	NA	--	2,510	6,620
MW-22	3/2/2023	REG	0.0506	<0.0200 U	<0.0100 U	--	1.6	--	5,740	10,900
MW-23	4/4/2017	REG	< 0.0500 U	< 0.0500 U	--	< 1.00 U	--	< 0.100 U	4,150	8,040
MW-23	4/7/2017	REG	--	--	< 0.0100 U	--	--	--	--	--
MW-24	9/22/2021	REG	0.0281	0.000670 J	0.00595 J	--	2.55	--	172	1,520
MW-24	9/29/2022	REG	0.0311	<0.00400 U	<0.0100 U	--	2.98	--	240	1,270
MW-24	3/3/2023	REG	0.0325	<0.00400 U	0.0168	--	3.18	--	281	1,290
MW-24	11/1/2023	REG	0.0306	<0.0200 U	<0.0100 U	--	3.32	--	241	1,560
MW-25	4/6/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	0.343 J	--	0.0964 J	2,170	4,370
MW-25	9/14/2017	REG	0.00341	0.00146 J	< 0.0100 U	--	1.72	--	1,810	4,790
MW-25	3/19/2018	REG	0.00155 J	0.00104 J	< 0.0100 U	--	1.19	--	1,550	3,760
MW-25	9/28/2018	REG	0.00187 J	0.00138 J	< 0.0100 U	--	1.46	--	1,590	4,210
MW-25	4/5/2019	REG	0.00145 J	0.00163 J	< 0.0100 U	--	1.21	--	1,240	4,230
MW-25	10/4/2019	REG	0.00129 J	0.00161 J	< 0.0100 U	--	1.34	--	1,960	4,420
MW-25	3/20/2020	FD	0.00203 J	0.00151 J	< 0.0100 U	--	1.48	--	1880	4680
MW-25	3/20/2020	REG	0.00166 J	0.00151 J	< 0.0100 U	--	1.34	--	1900	4560
MW-25	9/23/2020	REG	0.00162 J	0.00126 J	< 0.0100 UJ	--	1.13	--	1540	4550
MW-25	3/19/2021	REG	0.00308 J	0.00194 J	< 0.0100 U	--	1.55	--	1,330	4,470
MW-25	3/19/2021	FD	0.00266 J	0.00172 J	< 0.0100 U	--	1.31	--	1,280	4,620
MW-25	9/22/2021	REG	0.0148	0.00114 J	< 0.0100 U	--	1.44	--	2,160	6,350
MW-25	2/25/2022	REG	0.0126	0.00142 J	<0.0100 U	--	1.53	--	2,410	5,960
MW-25	2/25/2022	FD	0.0122	0.00148 J	<0.0100 U	--	1.53	--	2,450	6,040
MW-25	9/29/2022	REG	0.00990	0.00134 J	<0.0100 U	--	1.30	--	2,350	5,180
MW-25	3/3/2023	REG	0.0145 J	<0.0200 U	<0.0100 U	--	1.27	--	2,540	6,210
MW-25	11/1/2023	REG	0.00778 J	<0.0200 U	<0.0100 U	--	1.17	--	2,030	6,660
MW-26	4/6/2017	REG	0.0362 J	< 0.0500 U	0.00490 J	0.260 J	--	0.0324 J	191	1,200
MW-26	9/14/2017	REG	0.057	< 0.00400 U	< 0.0100 U	--	5.09	--	167	1,240
MW-26	3/19/2018	REG	0.0421	0.00155 J	< 0.0100 U	--	3.52	--	139	1,120
MW-26	3/19/2018	FD	0.0374	0.000994 J	< 0.0100 U	--	3.13	--	138	1,080
MW-26	9/28/2018	REG	0.0645	< 0.00400 U	0.353	--	5.73	--	149	1,120
MW-26	4/4/2019	REG	0.063	0.000777 J	< 0.0100 U	--	5.59	--	140 J	1,070
MW-26	10/4/2019	REG	0.0599	< 0.00400 U	< 0.0100 U	--	6.33	--	157	1,090
MW-26	3/20/2020	REG	0.0605	< 0.00400 U	< 0.0100 U	--	5.71 D	--	173	1080
MW-26	9/23/2020	REG	0.0606	< 0.00400 U	< 0.0100 U	--	5.69	--	168	1120
MW-26	3/19/2021	REG	0.0559	< 0.00400 U	< 0.0100 U	--	5.09 D	--	158 X	1,360
MW-26	9/22/2021	REG	0.052	< 0.00400 U	< 0.0100 U	--	4.65	--	160	1,510
MW-26	2/25/2022	REG	0.0590	<0.00400 U	<0.0100 U	--	4.81	--	159	1,040
MW-26	9/29/2022	REG	0.0462	<0.00400 U	<0.0100 U	--	3.95	--	160	1,090
MW-26	3/3/2023	REG	0.0662	<0.00400 U	0.0209	--	5.06	--	153	1,140
MW-26	11/1/2023	REG	0.0586	<0.0200 U	<0.0100 U	--	4.76	--	133	1,300
MW-29	4/5/2017	REG	< 0.0500 U	< 0.0500 U	--	0.323 J	--	0.115 J	131	918
MW-29	4/7/2017	REG	--	--	0.00560 J	--	--	--	--	--
MW-29	9/12/2017	REG	0.00288	< 0.00400 U	0.00280 J	--	6.85	--	138	1,040
MW-29	3/16/2018	REG	0.00292	< 0.00400 U	< 0.0100 U	--	7.28	--	128	1,120
MW-29	9/27/2018	REG	0.00327 J	< 0.00400 U	0.00530 J	--	6.59	--	153	1,120
MW-29	4/3/2019	REG	0.00389 J	0.000856 J	< 0.0100 U	--	9.21	--	185	1,170
MW-29	4/3/2019	FD	0.00338 J	0.000706 J	< 0.0100 U	--	7.51	--	165	1,100
MW-29	10/3/2019	REG	0.00249 J	< 0.00400 U	0.0139	--	8.41	--	232	1,250
MW-29	3/18/2020	REG	0.00335 J	< 0.00400 U	< 0.0100 U	--	8.64 D	--	308	1290
MW-29	9/22/2020	REG	0.00270 J	< 0.00400 U	< 0.0100 U	--	9.44	--	316	1430
MW-29	3/16/2021	REG	0.00288 J	< 0.00400 U	< 0.0100 U	--	8.40 D X	--	352	1,360
MW-29	9/22/2021	REG	0.00284 J	< 0.00400 U	< 0.0100 U	--	7.72	--	317	1,370
MW-29	2/24/2022	REG	0.00276 J	<0.00400 U	<0.0100 U	--	NA	--	356	1,370
MW-29	9/27/2022	REG	0.00233 J	<0.00400 U	<0.0100 U	--	9.29	--	313	1,340
MW-29	3/1/2023	REG	0.00262 J	<0.00400 U	<0.0100 U	--	8.61	--	312	1,370
MW-29	11/1/2023	REG	0.00286 J	<0.00400 U	0.0115	--	6.71	--	315	1,650
MW-3	4/5/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	< 1.00 U	--	< 0.100 U	83.7	706
MW-3	4/5/2017	FD	< 0.0500 U	< 0.0500 U	< 0.0100 U	0.0738 J	--	< 0.100 U	91.7	664
MW-3	9/13/2017	REG	0.0141	0.000680 J	< 0.0100 U	--	0.0619	--	74.1	806
MW-3	3/15/2018	REG	0.0146	0.000668 J	< 0.0100 U	--	0.0584	--	61.4	732
MW-3	9/25/2018	REG	0.017	0.00122 J	< 0.0100 U	--	0.0528	--	130	656
MW-3	4/5/2019	REG	0.016	0.00111 J	< 0.0100 U	--	0.0562	--	67.7	344
MW-3	10/4/2019	REG	0.0164	0.00113 J	< 0.0100 U	--	0.0512	--	84	723
MW-3	3/18/2020	REG	0.0174	0.00114 J	< 0.0100 U	--	0.0497	--	86.3	709
MW-3	3/17/2021	REG	0.0168	0.000802 J	< 0.0100 U	--	0.0500	--	101	717
MW-3	2/23/2022	REG	0.0163	0.000605 J	<0.0100 U	--	0.0479	--	86.0	816
MW-3	3/3/2023	REG	0.0194	0.00102 J	<0.0100 U	--	0.064	--	84.9	721
MW-3	10/31/2023	REG	0.0189 J	<0.0200 U	<0.0100 U	--	0.0509	--	93.6	721
MW-30	4/5/2017	REG	< 0.0500 U	< 0.0500 U	--	< 1.00 U	--	0.529 J	328	1,330
MW-30	4/7/2017	REG	--	--	< 0.0100 U	--	--	--	--	--
MW-30	9/12/2017	REG	0.00903	< 0.00400 U	< 0.0100 U	--	0.542	--	307	1,320
MW-30	3/16/2018	REG	0.0119	< 0.00400 U	< 0.0100 U	--	0.616	--	285	1,230
MW-30	9/26/2018	REG	0.0158	< 0.00400 U	< 0.0100 U	--	0.455	--	284	1,130
MW-30	4/3/2019	REG	0.0212	0.00146 J	< 0.0100 U	--	0.37	--	260	1,240
MW-30	10/3/2019	REG	0.0123	< 0.00400 U	< 0.0100 U	--	0.298	--	244	1,220
MW-30	3/18/2020	REG	0.00942	< 0.00400 U	< 0.0100 U	--	0.440	--	256	1250
MW-30	9/22/2020	REG	0.00762	< 0.00400 U	< 0.0100 U	--	0.317	--	266	1220
MW-30	3/16/2021	REG	0.00895	< 0.00400 U	< 0.0100 U	--	0.355	--	275	1,330
MW-30	9/22/2021	REG	0.00923	< 0.00400 U	< 0.0100 U	--	0.308	--	242	1,310
MW-30	2/24/2022	REG	0.00943	<0.00400 U	<0.0100 U	--	NA	--	268	1,190
MW-30	9/27/2022	REG	0.0106	<0.00400 U	<0.0100 U	--	0.302	--	281	1,300
MW-30	3/1/2023	REG	0.0083	<0.00400 U	<0.0100 U	--	0.328	--	276	1,320
MW-30	11/1/2023	REG	0.0108 J	<0.0200 U	<0.0100 U	--	0.312	--	286	1,540
MW-31	4/5/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	0.105 J	--	0.316	435	1,310
MW-31	4/5/2017	FD	< 0.0500 U	< 0.0500 U	< 0.0100 U	0.0918 J	--	0.298	431	1,400
MW-31	9/13/2017	REG	0.0347	< 0.00400 U	< 0.0100 U	--	0.569	--	445	1,450
MW-31	3/14/2018	REG	0.0463	< 0.00400 U	< 0.0100 U	--	0.483	--	449	1,450
MW-31	9/25/2018	REG	0.0334	< 0.00400 U	< 0.0100 U	--	0.565	--	499	1,420
MW-31	4/3/2019	REG	0.0359	< 0.00400 U	< 0.0100 U	--	0.440	--	533	1,460

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Appendix F
Historical Groundwater Analytical Results
2023 Annual GWM Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

		Parameter Name	Arsenic	Chromium	Chromium, Hexavalent	Iron	Barium	Manganese	Chloride	Total Dissolved Solids
		Report Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		NMWQCC Domestic	0.01	0.05	0.05	1.0	2.0	0.2	250	1000
Location ID	Date Sampled	Sample Purpose								
MW-31	10/2/2019	REG	0.0392	< 0.00400 U	< 0.0100 U	--	0.555	--	462	1,440
MW-31	3/18/2020	REG	0.0409	< 0.00400 U	< 0.0100 U	--	0.442	--	462	1430
MW-31	3/16/2021	REG	0.0411	< 0.00400 U	< 0.0100 U	--	0.414	--	482	1,160
MW-31	2/23/2022	REG	0.0476	<0.00400 U	<0.0100 U	--	0.310	--	447	1,660
MW-31	3/1/2023	REG	0.0524	<0.00400 U	<0.0100 U	--	0.347	--	442	1,590
MW-32	4/7/2017	REG	< 0.0500 U	0.00848 J	0.00560 J	0.0899 J	--	0.0540 J	988	2,650
MW-32	9/13/2017	REG	0.0263	< 0.00400 U	< 0.0100 U	--	1.32	--	1,070	3,140
MW-32	3/19/2018	REG	0.0198	< 0.00400 U	< 0.0100 U	--	0.886	--	831	2,470
MW-32	9/27/2018	REG	0.0298	< 0.00400 U	< 0.0100 U	--	1.32	--	578	2,000
MW-32	4/3/2019	REG	0.0361	0.000949 J	< 0.0100 U	--	1.40	--	583	2,200
MW-32	10/3/2019	REG	0.0329	< 0.00400 U	< 0.0100 U	--	1.32	--	435	2,110
MW-32	3/18/2020	REG	0.0397	< 0.00400 U	< 0.0100 U	--	1.81	--	438	2300
MW-32	9/22/2020	REG	0.0380	< 0.00400 U	< 0.0100 U	--	1.63	--	510	2320
MW-32	3/16/2021	REG	0.0423	< 0.00400 U	< 0.0100 U	--	2.07 D	--	583	2,310
MW-32	9/23/2021	REG	0.000909 J	< 0.00400 U	< 0.0100 U	--	4.85	--	25.7	852 J
MW-32	2/25/2022	REG	0.0487	<0.00400 U	<0.0100 U	--	2.37	--	730	2,680
MW-32	9/27/2022	REG	0.0438	<0.00400 U	<0.0100 U	--	1.95	--	828	2,780
MW-32	3/1/2023	REG	0.0524	<0.00400 U	<0.0100 U	--	0.347	--	442	1,590
MW-32	10/31/2023	REG	0.0538	<0.0200 U	0.0110	--	2.8	--	871	3,370
MW-34	4/5/2017	REG	< 0.0500 U	0.00780 J	--	0.162 J	--	0.0612 J	244	1,340
MW-34	4/7/2017	REG	--	--	0.00340 J	--	--	--	--	--
MW-34	9/12/2017	REG	0.00215	< 0.00400 U	0.00300 J	--	4.72	--	235	1,500
MW-34	3/16/2018	REG	0.00242	< 0.00400 U	< 0.0100 U	--	4.66	--	455	1,470
MW-34	9/27/2018	REG	0.00186 J	< 0.00400 U	0.00470 J	--	5.28	--	262	1,450
MW-34	4/2/2019	REG	0.00180 J	< 0.00400 U	< 0.0100 U	--	5.3	--	286	1,680
MW-34	10/2/2019	REG	0.00108 J	< 0.00400 U	< 0.0100 U	--	4.84	--	302	1,710
MW-34	10/2/2019	FD	0.00107 J	< 0.00400 U	< 0.0100 U	--	4.7	--	299	1,590
MW-34	3/18/2020	FD	0.00102 J	< 0.00400 U	< 0.0100 U	--	4.36 D	--	311	1620
MW-34	3/18/2020	REG	0.00123 J	< 0.00400 U	< 0.0100 U	--	4.59 D	--	308	1620
MW-34	9/22/2020	FD	0.000838 J	< 0.00400 U	< 0.0100 U	--	5.14	--	297	1530
MW-34	3/16/2021	REG	0.000866 J	< 0.00400 U	< 0.0100 U	--	5 D	--	282 X	1,900
MW-34	3/16/2021	FD	0.000884 J	< 0.00400 U	< 0.0100 U	--	4.96 D	--	298	2,150
MW-34	9/23/2021	REG	0.000802 J	< 0.00400 U	< 0.0100 U	--	4.69	--	295	1550
MW-34	9/23/2021	FD	0.000958 J	< 0.00400 U	< 0.0100 U	--	4.72	--	25.6	1,710 J
MW-34	2/24/2022	REG	0.00105 J	<0.00400 U	<0.0100 U	--	NA	--	261	1,520
MW-34	2/24/2022	FD	0.000995 J	<0.00400 U	<0.0100 U	--	NA	--	252	1,570
MW-34	9/27/2022	REG	0.000976 J	<0.00400 U	<0.0100 U	--	4.83	--	252	1,500
MW-34	9/27/2022	FD	0.000890 J	<0.00400 U	<0.0100 U	--	4.65	--	253	1,520
MW-34	3/1/2023	FD	0.00106 J	<0.00400 U	<0.0100 U J	--	4.86	--	242	1,530
MW-34	3/1/2023	REG	0.000939 J	<0.00400 U	<0.0100 U	--	4.69	--	239	1,620
MW-34	10/31/2023	REG	<0.0200 U	<0.0200 U	0.0105	--	4.6	--	238	1,750
MW-35	4/12/2017	REG	--	--	< 0.0100 U	--	0.046	--	1,810	3,300
MW-35	9/15/2017	REG	0.0293 J	< 0.00400 U	< 0.0100 U	--	0.163 J	--	941	2,090
MW-35	3/14/2018	REG	0.0184	< 0.00400 U	< 0.0100 U	--	0.0735	--	761	2,220
MW-35	9/27/2018	REG	0.0175	< 0.00400 U	< 0.0100 U	--	0.0802	--	331	1,120
MW-35	4/2/2019	REG	0.0166	0.000714 J	< 0.0100 U	--	0.0775	--	321	1,100
MW-35	10/1/2019	REG	0.0108	< 0.00400 U	< 0.0100 U	--	0.0875	--	243	1,020
MW-35	3/18/2020	REG	0.00963	< 0.00400 U	< 0.0100 U	--	0.104	--	167	955
MW-35	9/22/2020	REG	0.00942	< 0.00400 U	< 0.0100 U	--	0.122 J	--	167	937
MW-35	3/17/2021	REG	0.00828	< 0.00400 U	< 0.0100 U	--	0.107	--	158	958
MW-35	9/23/2021	REG	0.0110	< 0.00400 U	< 0.0100 U	--	0.104	--	133	943
MW-35	2/23/2022	REG	0.00956	<0.00400 U	<0.0100 U	--	0.0938	--	147	972
MW-35	9/27/2022	REG	0.00869	<0.00400 U	<0.0100 U	--	0.0866	--	138	917
MW-35	3/1/2023	REG	0.00901	<0.00400 U	<0.0100 U	--	0.106	--	139	934
MW-35	10/31/2023	REG	0.0094 J	<0.0200 U	<0.0100 U	--	0.107	--	149	940
MW-36	4/12/2017	REG	--	--	< 0.0100 U	--	0.0488	--	391	1,150
MW-36	9/15/2017	REG	0.00957 J	< 0.00400 U	< 0.0100 U	--	0.0627 J	--	393	1,350
MW-36	3/14/2018	REG	0.00978	< 0.00400 U	< 0.0100 U	--	0.0802	--	421	1,190
MW-36	9/26/2018	REG	0.01	< 0.00400 U	< 0.0100 U	--	0.102	--	426	1,200
MW-36	9/26/2018	FD	0.01	< 0.00400 U	< 0.0100 U	--	0.101	--	417	1,120
MW-36	4/2/2019	REG	0.0103	< 0.00400 U	< 0.0100 U	--	0.107	--	406	1,180
MW-36	10/1/2019	REG	0.00948	< 0.00400 U	< 0.0100 U	--	0.124	--	434	1,280
MW-36	3/17/2020	REG	0.00886	< 0.00400 U	< 0.0100 U	--	0.105	--	453	1270
MW-36	3/16/2021	REG	0.00856	< 0.00400 U	< 0.0100 U	--	0.115	--	439	1,370
MW-36	2/23/2022	REG	0.00853	<0.00400 U	<0.0100 U	--	0.0952	--	409	1,850
MW-36	3/1/2023	REG	0.00903	<0.00400 U	<0.0100 U	--	0.119	--	434	1,310
MW-37	3/14/2018	REG	0.0118	< 0.00400 U	< 0.0100 U	--	0.127	--	318	1,000
MW-37	9/26/2018	REG	0.0105	< 0.00400 U	< 0.0100 U	--	0.201	--	327	1,010
MW-37	4/2/2019	REG	0.00678	< 0.00400 U	< 0.0100 U	--	0.223	--	336	1,100
MW-37	10/2/2019	REG	0.00595	< 0.00400 U	< 0.0100 U	--	0.192	--	314	1,060
MW-37	3/18/2020	REG	0.00797	< 0.00400 U	< 0.0100 U	--	0.287	--	318	1090
MW-37	3/16/2021	REG	0.0084	< 0.00400 U	< 0.0100 U	--	0.465	--	357	1,060
MW-37	2/23/2022	REG	0.0113	<0.00400 U	<0.0100 U	--	0.536	--	336	1,180
MW-37	3/1/2023	REG	0.00864	<0.00400 U	<0.0100 U	--	0.615	--	326	1,140
MW-38	3/14/2018	REG	0.0106	< 0.00400 U	< 0.0100 U	--	0.183	--	307 J	1,110
MW-38	3/14/2018	FD	0.0102	< 0.00400 U	< 0.0100 U	--	0.175	--	438 J	1,230
MW-38	9/26/2018	REG	0.0492	0.000709 J	< 0.0100 U	--	0.265	--	613	1,850
MW-38	4/2/2019	REG	0.0273	< 0.00400 U	< 0.0100 U	--	0.102	--	614	1,870
MW-38	10/2/2019	REG	0.0126	< 0.00400 U	< 0.0100 U	--	0.094	--	655	1,960
MW-38	3/18/2020	REG	0.00838	< 0.00400 U	< 0.0100 U	--	0.09	--	772	2400
MW-38	9/22/2020	REG	0.00970	< 0.00400 U	< 0.0100 U	--	0.0718	--	641	1960
MW-38	3/16/2021	REG	0.00874	< 0.00400 U	< 0.0100 U	--	0.0736	--	585	2,040
MW-38	9/23/2021	REG	0.00852	< 0.00400 U	< 0.0100 U	--	0.0732	--	52.7	1,880
MW-38	2/23/2022	REG	0.00704	<0.00400 U	<0.0100 U	--	0.0653	--	807	2,320
MW-38	9/27/2022	REG	0.00682	<0.00400 U	<0.0100 U	--	0.0726	--	1,000	1,990
MW-38	3/1/2023	REG	0.00699	<0.00400 U	<0.0100 U	--	0.0948	--	1,030	2,730
MW-38	10/31/2023	REG	0.00691 J	<0.0200 U	<0.0100 U	--	0.0922	--	1,050	3,000
MW-4	4/4/2017	REG	< 0.0500 U	< 0.0500 U	--	0.0629 J	--	1.14	2,390	4,180
MW-4	4/7/2017	REG	--	--	< 0.0100 U	--	--	--	--	--
MW-4	9/13/2017	REG	0.00758	< 0.00400 U	< 0.0100 U	--	0.0783	--	2,500	5,360
MW-4	3/15/2018	REG	0.00787	< 0.00400 U	< 0.0100 U	--	0.0796	--	2,540	6,170
MW-4	9/27/2018	REG	0.00858	< 0.00400 U	< 0.0100 U	--	0.0803	--	2,620	4,350
MW-4	4/4/2019	REG	0.00818	0.00163 J	< 0.0100 U	--	0.062	--	1,830	4,970
MW-4	10/3/2019	REG	0.00848	< 0.00400 U	< 0.0100 U	--	0.0585	--	2,150	4,390
MW-4	10/3/2019	FD	0.00914	< 0.00400 U	< 0.0100 U	--	0.0534	--	2,130	4,240

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Appendix F
Historical Groundwater Analytical Results
2023 Annual GWM Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

ARCADIS

		Parameter Name	Arsenic	Chromium	Chromium, Hexavalent	Iron	Barium	Manganese	Chloride	Total Dissolved Solids
		Report Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		NMWQCC Domestic	0.01	0.05	0.05	1.0	2.0	0.2	250	1000
Location ID	Date Sampled	Sample Purpose								
MW-4	3/19/2020	REG	0.00985	< 0.0200 U	< 0.0100 U	--	0.0627	--	2120	4460
MW-4	3/18/2021	REG	0.00981	< 0.00400 U	< 0.0100 U	--	0.0608	--	1,250	4,160
MW-4	2/23/2022	REG	0.00982	<0.00400 U	<0.0100 U	--	0.0808	--	1,710	4,060
MW-4	3/2/2023	REG	0.0119	<0.00400 U	<0.0100 U	--	0.0852	--	1,820	3,950
MW-6	4/4/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	0.0437 J	--	0.115	866	3,700
MW-7	4/4/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	0.265 J	--	1.08	95.7	1,050
MW-8	4/5/2017	REG	< 0.0500 U	< 0.0500 U	0.0067 J	0.0964 J	--	0.181	840	2,620
MW-8	4/5/2017	FD	< 0.0500 U	< 0.0500 U	0.0042 J	0.0918 J	--	0.194	851	2,460
MW-8	9/12/2017	REG	0.0408	< 0.00400 U	< 0.0100 U	--	0.04	--	782	3,300
MW-8	3/16/2018	REG	0.0344	< 0.00400 U	< 0.0100 U	--	0.0383	--	1,330	2,340
MW-8	9/28/2018	REG	0.0416	< 0.00400 U	< 0.0100 U	--	0.0484	--	592	2,160
MW-8	4/3/2019	REG	0.0519	0.00112 J	< 0.0100 U	--	0.0496	--	512	2,240
MW-8	10/3/2019	REG	0.034	< 0.00400 U	< 0.0100 U	--	0.0426	--	458	2,090
MW-8	3/18/2020	REG	0.0353	< 0.00400 U	< 0.0100 U	--	0.0607	--	423	2330
MW-8	3/17/2021	REG	0.0338	< 0.00400 U	< 0.0100 U	--	0.0648	--	506	2,520
MW-8	2/24/2022	REG	0.0299	<0.00400 U	<0.0100 U	--	NA	--	714	2,290
MW-8	3/1/2023	REG	0.0327	<0.00400 U	<0.0100 U	--	0.0803	--	776	2,560
MW-9	4/5/2017	REG	< 0.0500 U	< 0.0500 U	--	0.0551 J	--	0.307 J	453	1,650
MW-9	4/7/2017	REG	--	--	< 0.0100 U	--	--	--	--	--
MW-9	9/12/2017	REG	0.0131	< 0.00400 U	< 0.0100 U	--	0.177	--	434	1,760
MW-9	3/16/2018	REG	0.0125	< 0.00400 U	< 0.0100 U	--	0.379	--	716	1,670
MW-9	9/27/2018	REG	0.0145	< 0.00400 U	< 0.0100 U	--	1.11	--	360	1,470
MW-9	4/3/2019	REG	0.0107	0.00113 J	< 0.0100 U	--	4.79	--	334	1,410
MW-9	10/3/2019	REG	0.00387 J	< 0.00400 U	< 0.0100 U	--	9.06	--	286	1,340
MW-9	3/18/2020	REG	0.00572	< 0.00400 U	< 0.0100 U	--	11.0 D	--	276	1370
MW-9	3/16/2021	REG	0.00631	< 0.00400 U	< 0.0100 U X	--	11.6 D	--	241	1,430
MW-9	2/24/2022	REG	0.00619	<0.00400 U	<0.0100 U	--	NA	--	208	1,150
MW-9	3/1/2023	REG	0.0107	<0.00400 U	<0.0100 U	--	8.89	--	165	1,140
MWD-1	4/6/2017	REG	0.0715	< 0.0500 U	< 0.0100 U	< 1.00 U	--	< 0.100 U	629	1,700
MWD-1	9/13/2017	REG	0.0514	0.00479	< 0.0100 U	--	0.0455	--	635	1,910
MWD-1	3/14/2018	REG	0.0483	0.00475	< 0.0100 U	--	0.0447	--	547	1,500
MWD-1	9/25/2018	REG	0.0485	0.00485	0.00360 J	--	0.0581	--	567	1,580
MWD-1	4/3/2019	REG	0.0544	0.00612	< 0.0100 U	--	0.0503	--	501	1,640
MWD-1	10/3/2019	REG	0.0501	0.00388 J	< 0.0100 U	--	0.0483	--	469	1,540
MWD-1	10/3/2019	FD	0.0507	0.00404	< 0.0100 U	--	0.0482	--	475	1,530
MWD-1	3/19/2020	REG	0.0543	0.00389 J	< 0.0100 U	--	0.0454	--	479	1590
MWD-1	3/18/2021	REG	0.0431	0.00330 J	< 0.0100 U	--	0.0554	--	536	1,590
MWD-1	2/24/2022	REG	0.0416	0.00305 J	<0.0100 U	--	NA	--	465	1,560
MWD-1	3/2/2023	REG	0.0473	0.00324 J	<0.0100 U	--	0.0522	--	420	1,540
MWD-11	4/5/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	< 1.00 U	--	< 0.100 U	91.6	722
MWD-11	9/15/2017	REG	0.0157 J	0.00142 J	0.00580 J	--	0.0520 J	--	101 J	758 J
MWD-11	9/15/2017	FD	0.0276 J	< 0.00400 U	< 0.0100 U	--	0.155 J	--	1,190 J	2,560 J
MWD-11	3/15/2018	REG	0.0142	0.00121 J	< 0.0100 U	--	0.0632	--	121	937
MWD-11	9/25/2018	REG	0.0184	0.00107 J	< 0.0100 U	--	0.0667	--	145	981
MWD-11	4/5/2019	REG	0.0198	0.00113 J	< 0.0100 U	--	0.0466	--	80.2	736
MWD-11	10/4/2019	REG	0.016	0.00135 J	0.00550 J	--	0.0486	--	112	801
MWD-11	3/18/2020	REG	0.0169	0.00151 J	< 0.0100 U	--	0.0488	--	96.6	753
MWD-11	3/17/2021	REG	0.0214	0.00145 J	< 0.0100 U	--	0.0496	--	90.2	683
MWD-11	2/23/2022	REG	0.0159	0.000804 J	<0.0100 U	--	0.0564	--	126	979
MWD-11	3/3/2023	REG	0.0198	0.00119 J	<0.0100 U	--	0.0416	--	88.4	713
MWD-12	4/6/2017	REG	0.0375 J	< 0.0500 U	0.00280 J	0.161 J	--	0.0977 J	962	2,780
MWD-12	9/13/2017	REG	0.037	< 0.00400 U	< 0.0100 U	--	0.275	--	793	2,740
MWD-12	3/19/2018	REG	0.0321	< 0.00400 U	< 0.0100 U	--	0.245	--	1,020	2,480
MWD-12	9/27/2018	REG	0.0391	< 0.00400 U	< 0.0100 U	--	0.346	--	1,080	2,760
MWD-12	4/3/2019	REG	0.0443	0.000870 J	< 0.0100 U	--	0.38	--	901	3,120
MWD-12	10/4/2019	REG	0.035	< 0.00400 U	< 0.0100 U	--	0.371	--	914	2,840
MWD-12	3/19/2020	REG	0.0389	< 0.00400 U	< 0.0100 U	--	0.296	--	1390	3280
MWD-12	9/22/2020	REG	0.0352	< 0.00400 U	< 0.0100 U	--	0.298 J	--	1550	3730
MWD-12	3/17/2021	REG	0.0429	< 0.00400 U	< 0.0100 U	--	0.314	--	918	3,070
MWD-12	9/22/2021	REG	0.044	< 0.00400 U	< 0.0100 U	--	0.374	--	1,570	4,260
MWD-12	2/24/2022	REG	0.0415	<0.00400 U	<0.0100 U	--	NA	--	1,370	4,830
MWD-12	9/28/2022	REG	0.0356	<0.00400 U	<0.0100 U	--	0.253	--	1,610	4,330
MWD-12	3/2/2023	REG	0.0416	<0.0200 U	<0.0100 U	--	0.32	--	1,770	4,560
MWD-12	11/1/2023	REG	0.0462	<0.0200 U	<0.0100 U	--	0.317	--	1,260	4,780
MWD-13	4/4/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	< 1.00 U	--	0.269	1,930	5,150
MWD-13	9/12/2017	REG	0.0294	0.000896 J	< 0.0100 U	--	0.0615	--	2,620	6,280
MWD-13	9/13/2017	REG	0.0145	< 0.00400 U	< 0.0100 U	--	0.12	--	331	1,170
MWD-13	3/15/2018	REG	0.0366	0.000814 J	< 0.0100 U	--	0.0555	--	2,450	5,470
MWD-13	9/27/2018	REG	0.0622	0.00149 J	< 0.0100 U	--	0.0885	--	2,410	6,330
MWD-13	4/3/2019	REG	0.0349	0.0102	< 0.0100 U	--	0.0781	--	1,880	5,180
MWD-13	10/3/2019	REG	0.062	0.00285 J	< 0.0100 U	--	0.0726	--	1,290	4,610
MWD-13	3/19/2020	REG	0.0359	0.00158 J	< 0.0100 U	--	0.0625	--	2230	5300
MWD-13	9/22/2020	REG	0.0670	0.00337 J	< 0.0100 U	--	0.0878 J	--	2250	6430
MWD-13	3/17/2021	REG	0.0526	0.00168 J	< 0.0100 U	--	0.0877	--	1,120	5,450
MWD-13	9/22/2021	REG	0.0693	0.00216 J	< 0.0100 U	--	0.112	--	2,000	5,680
MWD-13	2/25/2022	REG	0.0556	0.00218 J	<0.0100 U	--	0.117	--	2,210	7,470
MWD-13	9/27/2022	REG	0.0442	0.00215 J	<0.0100 U	--	0.0775	--	3,550	7,390
MWD-13	3/2/2023	REG	0.0401	<0.0200 U	<0.0100 U	--	0.128	--	5,360	10,200
MWD-13	11/12/2023	REG	0.0469	0.0035 J	<0.0100 U	--	0.133	--	386	10,400
MWD-14	4/6/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	0.212 J	--	0.161 J	2,980	5,760
MWD-14	9/14/2017	REG	0.00292	0.000812 J	< 0.0100 U	--	0.532	--	1,210	4,090
MWD-14	3/19/2018	REG	0.00254	0.000705 J	< 0.0100 U	--	0.342	--	8,000	11,400
MWD-14	9/28/2018	REG	0.000750 J	0.000714 J	< 0.0100 U	--	0.747	--	1,280	4,130
MWD-14	4/5/2019	REG	0.000809 J	0.000762 J	< 0.0100 U	--	0.436	--	974	3,820
MWD-14	10/4/2019	REG	0.000588 J	0.000883 J	< 0.0100 U	--	0.808	--	595	2,900
MWD-14	3/19/2020	REG	0.000667 J	0.000833 J	< 0.0100 U	--	0.605	--	742	3410
MWD-14	9/23/2020	REG	0.000558 J	0.000723 J	< 0.0100 UJ	--	1.09	--	426	3140
MWD-14	3/19/2021	REG	0.000648 J	0.00105 J	< 0.0100 U	--	0.982	--	430	3,450
MWD-14	9/22/2021	REG	0.000558 J	0.000690 J	< 0.0100 U	--	0.807	--	586	2,670
MWD-14	2/25/2022	REG	0.000476 J	0.000888 J	<0.0100 U	--	1.15	--	501	2,880
MWD-14	9/29/2022	REG	0.000576 J	0.000671 J	<0.0100 U	--	0.928	--	514	3,320
MWD-14	3/3/2023	REG	<0.0200 U	<0.0200 U	0.00543 J	--	1.25	--	761	3,640
MWD-14	11/1/2023	FD	<0.0200 U	<0.0200 U	<0.0100 U	--	0.871	--	446	4,260

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Appendix F
Historical Groundwater Analytical Results
2023 Annual GWM Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

ARCADIS

		Parameter Name	Arsenic	Chromium	Chromium, Hexavalent	Iron	Barium	Manganese	Chloride	Total Dissolved Solids
		Report Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		NMWQCC Domestic	0.01	0.05	0.05	1.0	2.0	0.2	250	1000
Location ID	Date Sampled	Sample Purpose								
MWD-15	4/6/2017	REG	< 0.0500 U	< 0.0500 U	**0.00610 J**	**0.199 J**	--	**0.0899 J**	< 25.0 U	3,390
MWD-15	9/14/2017	REG	0.0258	**0.000651 J**	**0.00250 J**	--	1.51	--	1,450	4,010
MWD-15	3/15/2018	REG	0.0182	< 0.00400 U	< 0.0100 U	--	1.26	--	1,480	4,140
MWD-15	9/27/2018	REG	0.00653	< 0.00400 U	< 0.0100 U	--	2.41	--	1,440	3,200
MWD-15	4/4/2019	REG	0.00799	**0.00207 J**	< 0.0100 U	--	1.83	--	604 J	3,210
MWD-15	10/3/2019	REG	0.018	< 0.00400 U	< 0.0100 U	--	1.19	--	1,300	3,570
MWD-15	3/19/2020	REG	0.0117	< 0.0200 U	< 0.0100 U	--	1.79	--	1470	3470
MWD-15	9/22/2021	REG	0.00583	< 0.00400 U	< 0.0500 U	--	2.51	--	1,250	3,230
MWD-15	2/24/2022	REG	0.00676	0.00400	<0.0100 U	--	NA	--	1,280	4,240
MWD-15	9/28/2022	REG	0.00608	<0.00400 U	0.0329	--	2.93	--	1,190	2,820
MWD-15	3/3/2023	REG	0.00933 J	<0.0200 U	0.0187	--	2.83	--	1,250	2,830
MWD-15	11/1/2023	REG	0.00647 J	<0.0200 U	<0.0100 U	--	2.42	--	1,010	2,860
MWD-17	4/4/2017	REG	0.0765	< 0.0500 U	--	**0.0942 J**	--	0.118	7,460	13,300
MWD-17	4/7/2017	REG	--	--	< 0.0100 U	--	--	--	--	--
MWD-17	3/15/2018	REG	0.0491	< 0.00400 U	< 0.0100 U	--	1.55	--	8,690	14,600
MWD-17	4/3/2019	REG	0.0593	**0.00396 J**	< 0.0100 U	--	1.89	--	3,810	12,500
MWD-17	3/19/2020	REG	0.0490	< 0.0200 U	< 0.0500 U	--	2.23 D	--	5340	11600
MWD-17	3/18/2021	REG	0.0447	**0.000810 J**	< 0.0100 U	--	0.422	--	3,350	11,900
MWD-17	2/24/2022	REG	0.0596	0.00400	<0.0100 U	--	NA	--	5,520	11,400
MWD-17	3/2/2023		0.0995	<0.0200 U	<0.0100 U	--	0.351	--	5,510	11,200
MWD-2	4/5/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	< 1.00 U	--	0.105	1,200	2,370
MWD-2	3/15/2018	REG	0.0102	< 0.00400 U	< 0.0100 U	--	0.0456	--	1,140	3,120
MWD-2	4/4/2019	REG	0.0088	**0.00119 J**	< 0.0100 U	--	0.0500	--	796 J	2,730
MWD-2	3/19/2020	REG	0.0100	**0.000565 J**	< 0.0100 U	--	0.0431	--	857	2660
MWD-2	3/18/2021	REG	0.0104	< 0.00400 U	< 0.0100 U	--	0.0437	--	711	2,600
MWD-2	2/23/2022	REG	0.0113	<0.00400 U	<0.0100 U	--	0.0417	--	720	2,480
MWD-2	3/2/2023	REG	0.0128	<0.00400 U	<0.0100 U	--	0.0437	--	805	4,000
MWD-3	2/28/2018	REG	--	--	--	--	--	--	38,700	45,900
MWD-3	3/15/2018	REG	0.0358	**0.00196 J**	< 0.0100 U	--	0.755	--	35,900	49,300
MWD-3	3/30/2018	REG	--	--	--	--	--	--	37,000	51,200
MWD-3	8/8/2018	REG	--	--	--	--	--	--	34,500	54,700
MWD-3	8/31/2018	REG	--	--	--	--	--	--	40,800	60,300
MWD-3	9/28/2018	REG	0.0335	**0.00307 J**	< 0.0100 U	--	0.671	--	41,100	86,700
MWD-3	10/4/2019	REG	0.0297	**0.00194 J**	< 0.0100 U	--	0.753	--	44,800	57,700
MWD-3	3/19/2020	REG	0.0348 D	< 0.0200 U	< 0.0100 U	--	0.936 D	--	36000	52000
MWD-3	9/22/2020	REG	0.0469	< 0.00400 U	< 0.0100 U	--	4.50 J	--	7110	13000
MWD-3	3/18/2021	REG	0.0490	**0.000579 J**	< 0.0100 U	--	3.24 D	--	16,300	31,500
MWD-3	9/22/2021	REG	0.0985	**0.000533 J**	< 0.0100 U	--	5.79	--	19,300	34,300
MWD-3	2/24/2022	REG	0.0489	<0.00400 U	<0.0100 U	--	NA	--	20,500	33,000
MWD-3	9/28/2022	REG	0.0397	0.000833 J	<0.0100 U	--	3.31	--	19,200	33,000
MWD-3	3/2/2023	REG	0.0543	<0.0200 U	<0.0100 U	--	13.1	--	18,400	33,900
MWD-3	11/12/2023	REG	0.0406	**0.000899 J**	<0.0100 U	--	3.12	--	18,100	32,700
MWD-4	4/4/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	**0.105 J**	--	0.608	45.5	872
MWD-4	9/12/2017	REG	**0.00158 J**	< 0.00400 U	**0.00390 J**	--	0.0522	--	48.4	1,290
MWD-4	3/15/2018	REG	**0.00147 J**	< 0.00400 U	< 0.0100 U	--	0.0573	--	29.4	1,110
MWD-4	9/27/2018	REG	**0.00152 J**	< 0.00400 U	< 0.0100 U	--	0.0698	--	56.3	992
MWD-4	4/3/2019	REG	**0.00154 J**	< 0.00400 U	< 0.0100 U	--	0.0655	--	57.1	1,360 J
MWD-4	4/3/2019	FD	**0.00147 J**	< 0.00400 U	< 0.0100 U	--	0.0655	--	59.9	5,610 J
MWD-4	10/3/2019	REG	**0.00139 J**	< 0.00400 U	< 0.0100 U	--	0.0593	--	49.5	1,220
MWD-4	3/19/2020	REG	**0.00127 J**	< 0.00400 U	< 0.0100 U	--	0.0554	--	39.6	1260
MWD-4	3/17/2021	REG	**0.00212 J**	< 0.00400 U	< 0.0100 U	--	0.0742	--	44.3	1,020
MWD-4	2/25/2022	REG	**0.00264 J**	<0.00400 U	<0.0100 U	--	0.0751	--	90.9	952
MWD-4	3/2/2023	REG	0.0127	<0.00400 U	<0.0100 U	--	0.0821	--	93.4	1,600
MWD-5	1/31/2017	REG	--	--	--	--	5.28	--	512	1,980
MWD-5	4/5/2017	REG	< 0.0500 U	< 0.0500 U	--	**0.200 J**	--	0.248 J	448	1,840
MWD-5	4/7/2017	REG	--	--	**0.00480 J**	--	--	--	--	--
MWD-5	3/15/2018	REG	0.0175	**0.00649**	< 0.0100 U	--	0.0728	--	16,700	28,500
MWD-5	4/3/2019	REG	0.0165	**0.00105 J**	< 0.0100 U	--	7.71	--	708	2,090
MWD-5	3/18/2020	REG	0.0148	< 0.00400 U	< 0.0100 U	--	7.58 D	--	598	7900
MWD-5	3/16/2021	REG	0.0154	< 0.00400 U	< 0.0100 U	--	8.10 D	--	502	2,140
MWD-5	2/24/2022	REG	0.0119	<0.00400 U	<0.0100 U	--	NA	--	634	2,300
MWD-5	3/1/2023	REG	0.0129	<0.00400 U	<0.0100 U	--	8.06	--	573	2,180
MWD-6	4/5/2017	REG	< 0.0500 U	< 0.0500 U	--	**0.106 J**	--	0.239 J	< 5.00 U	1,260
MWD-6	4/7/2017	REG	--	--	< 0.0100 U	--	--	--	--	--
MWD-6	9/13/2017	REG	**0.00345**	< 0.00400 U	< 0.0100 U	--	1.5	--	183	1,310
MWD-6	3/16/2018	REG	0.0069	< 0.00400 U	< 0.0100 U	--	2.45	--	172	1,370
MWD-6	9/27/2018	REG	**0.00238 J**	< 0.00400 U	< 0.0100 U	--	3.74	--	209	1,250
MWD-6	4/2/2019	REG	**0.00474**	< 0.00400 U	< 0.0100 U	--	3.77	--	202	1,220
MWD-6	10/2/2019	REG	**0.00234 J**	< 0.00400 U	< 0.0100 U	--	2.87	--	184	1,250
MWD-6	3/18/2020	REG	**0.00757**	< 0.00400 U	< 0.0100 U	--	1.75	--	193	1240
MWD-6	3/16/2021	REG	**0.00623**	< 0.00400 U	< 0.0100 U	--	0.838	--	160	1,100
MWD-6	2/24/2022	REG	0.00390 J	<0.00400 U	<0.0100 U	--	NA	--	166	1,100
MWD-6	3/1/2023	REG	**0.00255 J**	<0.00400 U	<0.0100 U	--	0.832	--	116	1,170
MWD-7	4/4/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	< 1.00 U	--	0.324	5,130	9,590
MWD-7	9/13/2017	REG	0.0146	**0.00116 J**	< 0.0100 U	--	0.0381	--	5,900	10,400
MWD-7	3/14/2018	REG	0.0146	< 0.00400 U	< 0.0100 U	--	0.0393	--	6,080	11,000
MWD-7	9/25/2018	REG	0.0158	**0.000919 J**	< 0.0100 U	--	0.0405	--	6,740	10,600
MWD-7	4/3/2019	REG	0.015	**0.00339 J**	< 0.0100 U	--	0.0442	--	3,970	9,440
MWD-7	10/3/2019	REG	0.0153	**0.00169 J**	< 0.0100 U	--	0.0429	--	6,470	9,590
MWD-7	3/19/2020	REG	0.0156	< 0.0200 U	< 0.0100 U	--	0.0409	--	5590	10600
MWD-7	3/17/2021	REG	0.0153	**0.000562 J**	< 0.0100 U	--	0.0474	--	3,870	10,900
MWD-7	2/24/2022	REG	0.0147	<0.00400 U	<0.0100 U	--	NA	--	7,120	10,800
MWD-7	3/2/2023	REG	0.0137 J	<0.0200 U	<0.0100 U	--	0.0585	--	6,170	13,100
MWD-8	4/4/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	< 1.00 U	--	< 0.100 U	177	540
MWD-8	9/13/2017	REG	0.0141	**0.000796 J**	< 0.0100 U	--	0.0503	--	220	884
MWD-8	3/15/2018	REG	0.0155	**0.000951 J**	< 0.0100 U	--	0.0498	--	136	663
MWD-8	9/25/2018	REG	0.0159	**0.000875 J**	< 0.0100 U	--	0.0527	--	103	658
MWD-8	4/4/2019	REG	0.0171	**0.00173 J**	< 0.0100 U	--	0.047	--	118 J	933
MWD-8	10/3/2019	REG	0.0181	**0.00111 J**	< 0.0100 U	--	0.0433	--	105	565
MWD-8	3/19/2020	REG	0.0185	**0.000971 J**	< 0.0100 U	--	0.0463	--	95.4	690
MWD-8	3/18/2021	REG	0.0230	**0.00154 J**	< 0.0100 U	--	0.0435	--	363	683
MWD-8	2/23/2022	REG	0.0234	**0.00159 J**	<0.0100 U	--	0.0345	--	116	646
MWD-8	3/2/2023	REG	0.0237	**0.00152 J**	<0.0100 U	--	0.0356	--	107	631

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Appendix F
Historical Groundwater Analytical Results
2023 Annual GWM Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

		Parameter Name	Arsenic	Chromium	Chromium, Hexavalent	Iron	Barium	Manganese	Chloride	Total Dissolved Solids
		Report Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		NMWQCC Domestic	0.01	0.05	0.05	1.0	2.0	0.2	250	1000
Location ID	Date Sampled	Sample Purpose								
MWD-9	4/4/2017	REG	< 0.0500 U	< 0.0500 U	--	< 1.00 U	--	0.629	18,700	33,300
MWD-9	4/7/2017	REG	--	--	< 0.0100 U	--	--	--	--	--
MWD-9	9/14/2017	REG	0.0172	0.00738	< 0.0100 U	--	0.0675	--	19,300	32,800
MWD-9	2/28/2018	REG	--	--	--	--	--	--	18,000	21,200
MWD-9	3/19/2018	REG	0.0112	< 0.00400 U	< 0.0100 U	--	4.73	--	635	2,160
MWD-9	8/8/2018	REG	--	--	--	--	--	--	14,700	26,500
MWD-9	8/31/2018	REG	--	--	--	--	--	--	15,700	27,800
MWD-9	9/28/2018	REG	0.0207	0.00694	< 0.0100 U	--	0.0705	--	16,400	28,100
MWD-9	4/4/2019	REG	0.0192	0.00931	0.00760 J	--	0.0717	--	17,000	28,800
MWD-9	10/4/2019	REG	0.0184	0.00569	< 0.0100 U	--	0.0755	--	15,000	26,800
RW-6	4/6/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	0.203 J	--	0.111 J	396	2,040
RW-6	9/14/2017	REG	0.0652	0.000638 J	< 0.0100 U	--	1.5	--	337	1,600
RW-6	3/15/2018	REG	0.00233	< 0.00400 U	< 0.0100 U	--	0.498	--	675	2,540
RW-6	9/27/2018	REG	0.00266 J	< 0.00400 U	< 0.0100 U	--	0.713	--	790	2,150
RW-6	4/4/2019	REG	0.00211 J	0.00216 J	< 0.0100 U	--	0.927	--	715	2,470
RW-6	10/4/2019	REG	0.00266 J	0.000681 J	< 0.0100 U	--	1.53	--	876	2,360
RW-6	3/19/2020	REG	0.00358 J	< 0.00400 U	< 0.0100 U	--	1.74	--	1040	2720
RW-6	3/19/2020	REG	0.0100	0.00136 J	< 0.0100 U	--	0.0870	--	4820	9060
RW-6	9/22/2020	REG	0.00287 J	< 0.00400 U	< 0.0100 U	--	1.71 J	--	1070	2660
RW-6	3/17/2021	REG	0.00300 J	< 0.00400 U	< 0.0100 U	--	1.75	--	929	2,570
RW-6	9/21/2021	REG	0.00358 J	< 0.00400 U	< 0.0100 U	--	1.58	--	872	2,450
RW-6	2/24/2022	REG	0.00404	0.000732 J	<0.0100 U	--	NA	--	986	2,860
RW-6	9/28/2022	REG	0.00325 J	<0.00400 U	<0.0100 U	--	1.47	--	963	2,790
RW-6	3/2/2023	REG	0.00517 J	<0.0200 U	<0.0100 U	--	1.86	--	1,130	3,050
RW-7	4/6/2017	REG	< 0.0500 U	< 0.0500 U	< 0.0100 U	< 1.00 U	--	0.610 J	5,180 J	10,000 J
RW-7	4/6/2017	FD	< 0.0500 U	< 0.0500 U	0.00540 J	< 1.00 U	--	0.0547 J	2,730 J	5,750 J
RW-7	9/14/2017	REG	0.00754	0.000949 J	< 0.0100 U	--	0.0738	--	4,740	9,050
RW-7	3/15/2018	REG	0.00955	0.000882 J	< 0.0100 U	--	0.0712	--	4,780 J	7,340 J
RW-7	3/15/2018	FD	0.00874	0.00120 J	< 0.0100 U	--	0.0651	--	2,400 J	4,890 J
RW-7	9/27/2018	REG	0.0104	0.00125 J	< 0.0100 U	--	0.0692	--	5,250	9,190
RW-7	4/4/2019	REG	0.0106	0.00225 J	< 0.0100 U	--	0.0914	--	2,750	8,390 J
RW-7	4/4/2019	FD	0.00909	0.00212 J	< 0.0100 U	--	0.0723	--	2,080	4,740 J
RW-7	10/4/2019	REG	0.00847	0.00105 J	< 0.0100 U	--	0.083	--	4,400	5,270
RW-7	3/19/2021	REG	0.00892	0.000823 J	< 0.0100 U	--	0.104 D	--	1,620	8,590
RW-7	2/24/2022	REG	0.00670	0.000917 J	<0.0100 U	--	NA	--	3,210	8,230
RW-7	3/2/2023	REG	0.0088 J	<0.0200 U	<0.0100 U	--	0.0921	--	4,390	10,400
RW-8	4/4/2017	REG	< 0.0500 U	< 0.0500 U	--	0.26 J	--	0.369	1,220	2,510
RW-8	4/7/2017	REG	--	--	< 0.0100 U	--	--	--	--	--
RW-8	3/15/2018	REG	0.0409	< 0.00400 U	< 0.0100 U	--	0.0938	--	1,260	3,530
RW-8	4/4/2019	REG	0.0139	0.00167 J	< 0.0100 U	--	0.0981	--	756 J	2,690
RW-8	3/19/2020	REG	0.0284	< 0.00400 U	< 0.0100 U	--	0.219	--	1190	2660
RW-8	3/18/2021	REG	0.0319	< 0.00400 U	< 0.0100 U	--	0.126	--	977 X	2,460
RW-8	2/23/2022	REG	0.0252	<0.00400 U	<0.0100 U	--	0.180	--	1,240	3,340
RW-8	3/3/2023	REG	0.152	<0.0200 U	0.00733 J	--	0.184	--	1,500	3,440
TMW-1	4/7/2017	REG	< 0.0500 U	< 0.0500 U	0.0125	0.442 J	--	1.18	757	1,970
TMW-1	4/7/2017	FD	< 0.0500 U	0.00707 J	0.0116	0.342 J	--	1.15	712	1,720
TMW-1	9/13/2017	REG	0.0195	0.000722 J	< 0.0100 U	--	2.83	--	685	1,600
TMW-1	3/15/2018	REG	0.0212	< 0.00400 U	< 0.0100 U	--	2.61	--	608	1,450
TMW-1	9/27/2018	REG	0.0183	< 0.00400 U	0.0107	--	2.19	--	600	1,320
TMW-1	4/5/2019	REG	0.0167	< 0.00400 U	< 0.0100 U	--	2.03	--	450	1,320
TMW-1	4/5/2019	FD	0.0169	< 0.00400 U	< 0.0100 U	--	2.08	--	503	1,310
TMW-1	10/4/2019	REG	0.0184	< 0.00400 U	< 0.0100 U	--	1.14	--	537	1,430
TMW-1	3/19/2020	FD	0.0187	< 0.00400 U	< 0.0100 U	--	1.12	--	531	1480
TMW-1	3/19/2020	REG	0.0178	< 0.00400 U	< 0.0100 U	--	1.14	--	518	1430
TMW-1	3/17/2021	REG	0.0228	< 0.00400 U	< 0.0100 U	--	1.22	--	533	1,370
TMW-1	3/17/2021	FD	0.0234	< 0.00400 U	< 0.0100 U	--	1.24	--	536	1,780
TMW-1	3/3/2023	REG	0.0162	<0.00400 U	<0.0100 U	--	1.03	--	378	1,150
TMW-3	4/6/2017	REG	< 0.0500 U	< 0.0500 U	0.00630 J	0.470 J	--	0.491 J	325	1,130
TMW-6	4/6/2017	REG	0.0460 J	0.00768 J	0.00780 J	0.280 J	--	0.0301 J	318	1,260
TMW-6	9/14/2017	REG	0.00275	< 0.00400 U	< 0.0100 U	--	0.515	--	519	2,640
TMW-6	3/19/2018	REG	0.0453	< 0.00400 U	< 0.0100 U	--	1.02	--	332	1,490
TMW-6	4/5/2018	REG	0.0606	< 0.00400 U	< 0.0100 U	5.18	--	0.0466	336	1,670
TMW-6	9/28/2018	REG	0.0779	< 0.00400 U	< 0.0100 U	--	1.23	--	356	1,490
TMW-6	9/28/2018	FD	0.0748	< 0.00400 U	< 0.0100 U	--	1.36	--	351	1,450
TMW-6	4/5/2019	REG	0.0647	< 0.00400 U	< 0.0100 U	--	1.98	--	236	1,430
TMW-6	10/4/2019	REG	0.0671	< 0.00400 U	< 0.0100 U	--	1.1	--	312	1,450
TMW-6	3/20/2020	REG	0.0711	0.000609 J	< 0.0100 U	--	1.09	--	305	1400
TMW-6	3/19/2021	REG	0.0741	0.000700 J	< 0.0100 U	--	0.744	--	163	1,340
TMW-6	2/25/2022	REG	0.0713	<0.00400 U	<0.0100 U	--	0.868	--	112	1,090
TMW-6	3/3/2023	REG	0.0803	<0.00400 U	0.0111	--	1.04	--	60.2	1,150
WW-2	4/5/2017	REG	< 0.0500 U	< 0.0500 U	--	< 1.00 U	--	0.0806 J	352 J	546
WW-2	4/7/2017	REG	--	--	< 0.0100 U	--	--	--	--	--
WW-2	3/16/2018	REG	0.00100 J	< 0.00400 U	< 0.0100 U	--	1.5	--	351	616
WW-2	4/4/2019	REG	0.000970 J	0.000822 J	< 0.0100 U	--	0.418	--	125 J	477
WW-2	3/19/2020	REG	0.000628 J	< 0.00400 U	< 0.0100 U	--	1.86	--	2450	3640
WW-2	3/16/2021	REG	0.000734 J	< 0.00400 U	< 0.0100 U	--	2.05 D	--	2,460	3,340
WW-2	2/24/2022	REG	0.0015 J	<0.00400 U	<0.0100 U	--	NA	--	672	1,160
WW-2	3/1/2023	REG	0.00137 J	<0.00400 U	<0.0100 U	--	3.64	--	721	1,390
WW-3	4/7/2017	REG	< 0.0500 U	< 0.0500 U	0.0105	0.240 J	--	0.211	207	468
WW-7	4/4/2017	REG	< 0.0500 U	< 0.0500 U	--	< 1.00 U	--	0.389	270 J	458
WW-7	4/7/2017	REG	--	--	< 0.0100 U	--	--	--	--	--
WW-7	3/16/2018	REG	0.000628 J	< 0.00400 U	< 0.0100 U	--	0.368	--	251	500
WW-7	4/4/2019	REG	0.000970 J	0.00127 J	< 0.0100 U	--	1.51	--	332 J	640
WW-7	3/18/2020	REG	0.000661 J	< 0.00400 U	< 0.0100 U	--	0.448	--	238	459
WW-7	3/16/2021	REG	0.000637 J	< 0.00400 U	< 0.0100 U	--	0.489	--	257	410
WW-7	2/24/2022	REG	0.000775 J	<0.00400 U	<0.0100 U	--	NA	--	248	416
WW-7	3/1/2023	REG	0.000764 J	<0.00400 U	<0.0100 U	--	0.641	--	252	715

Released to Imaging: 4/30/2024 10:08:36 AM

APPENDIX G

2022 Mann-Kendall Analysis

Released to Imaging: 4/30/2024 10:08:36 AM

Received by OCD: 3/13/2024 8:36:42 PM

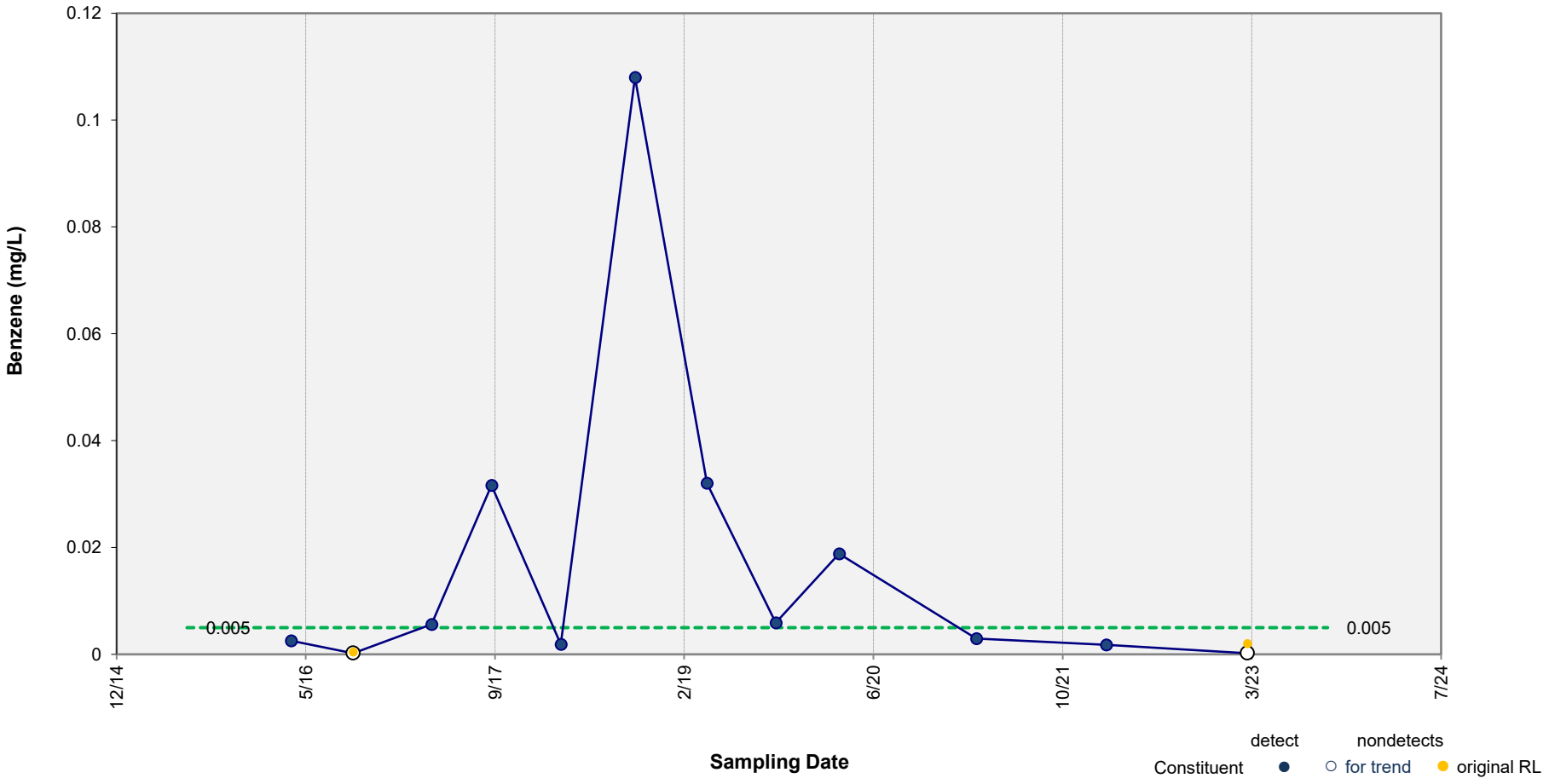
Table G-1. Mann-Kendall Trend Analysis Summary
Appendix G. 2023 Mann-Kendall Analysis
2023 Annual Groundwater Monitoring Report
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

ARCADIS

Constituent	Monitoring Well	NMWQCC Standard (mg/L)	Start Date	End Date	Summary Statistics						Mann-Kendall			
					n	% ND	Minimum Concentration (mg/L)	Maximum Concentration (mg/L)	Most Recent Concentration (mg/L)	CV[1]	S-Statistic	p-value	Trend Determination	Significance[2]
Benzene	**Northern Plume Fringe (onsite)**													
	TMW-1	0.005	4/1/2016	3/3/2023	12	16.67	< 0.000408	0.108	< 0.002 U	1.724	-7	0.34	Variable	NS
	Central Plume (onsite)													
	MW-26	0.005	4/1/2016	11/1/2023	16	0	0.0449 J	1.79	0.198	0.5	-78	< 0.001	Decreasing	Significant
	Eastern Plume (onsite)													
	MWD-14	0.005	4/1/2016	11/1/2023	16	0	0.211 D	2.6	1.53 D J	0.6	-26	0.13	Stable	NS
	MWD-17	0.005	3/31/2016	3/2/2023	9	0	0.0115 J	0.957	0.0115 J	1.0	-30	< 0.001	Decreasing	Significant
	Southern Plume Fringe (onsite)													
	MW-32 (since 2017)	0.005	9/13/2017	10/31/2023	13	7.692	<0.002	14.7	0.211	1.2	-62	< 0.001	Decreasing	Significant
	MW-29 (since 2017)	0.005	9/12/2017	11/1/2023	13	7.692	<0.002	1.6	0.0105 J	1.7	-60	< 0.001	Decreasing	Significant
Chloride	**Western Plume Fringe (offsite)**													
	MW-35	250	4/12/2017	10/31/2023	14	0	133	1,810	149	1.2	-74	< 0.001	Decreasing	Significant
	Western Plume (onsite)													
	TMW-1	250	4/1/2016	3/3/2023	12	0	378	761	378	0.2	-54	< 0.001	Decreasing	Significant
	MW-26	250	4/1/2016	11/1/2023	16	0	133	285	133	0.2	-43	0.029	Decreasing	Significant
	Central Plume (onsite)													
	MWD-14	250	4/1/2016	11/1/2023	16	0	426	8,000	474	1.2	-72	< 0.001	Decreasing	Significant
	MW-32	250	3/31/2016	10/31/2023	16	0	435	1,120	871	0.3	-16	0.249	Stable	NS
	MW-29	250	3/31/2016	11/1/2023	16	0	101	356	315	0.4	86	< 0.001	Increasing	Significant
	Eastern Plume Fringe (offsite)													
	MWD-7	250	3/31/2016	3/2/2023	12	0	3,870	7,210	6,170	0.2	4	0.419	Stable	NS
	MW-15	250	3/30/2016	10/31/2023	16	0	968	2,320	1,380	0.2	-54	0.008	Decreasing	Significant
	MW-15 (since 2018)	250	9/25/2018	10/31/2023	11	0	968	2,320	1,380	0.3	-32	0.008	Decreasing	Significant
	Southern Plume Fringe (offsite)													
	MW-38	250	3/14/2018	10/31/2023	12	0	52.7	1,050	1,050	0.4	38	0.006	Increasing	Significant
	MW-36	250	4/12/2017	3/1/2023	10	0	391	453	434	0.05	24	0.02	Increasing	Significant
	MW-37	250	3/14/2018	3/1/2023	8	0	314	357	326	0.04	6	0.27	Stable	NS

Notes:
[1] Non-detect values taken at the reporting limit for CV calculation
[2] p-value <0.1 indicates a statistically significant trend (90% confidence level).

Acronyms:
< - less than
% - percent
CV - coefficient of variation
mg/L - milligrams per liter
ND - nondetect
NMWQCC - New Mexico Water Quality Control Commission
NS - not significant
X - QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical



Results of Mann-Kendall Test for Trend:

No Significant Trend

p value = 0.340 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

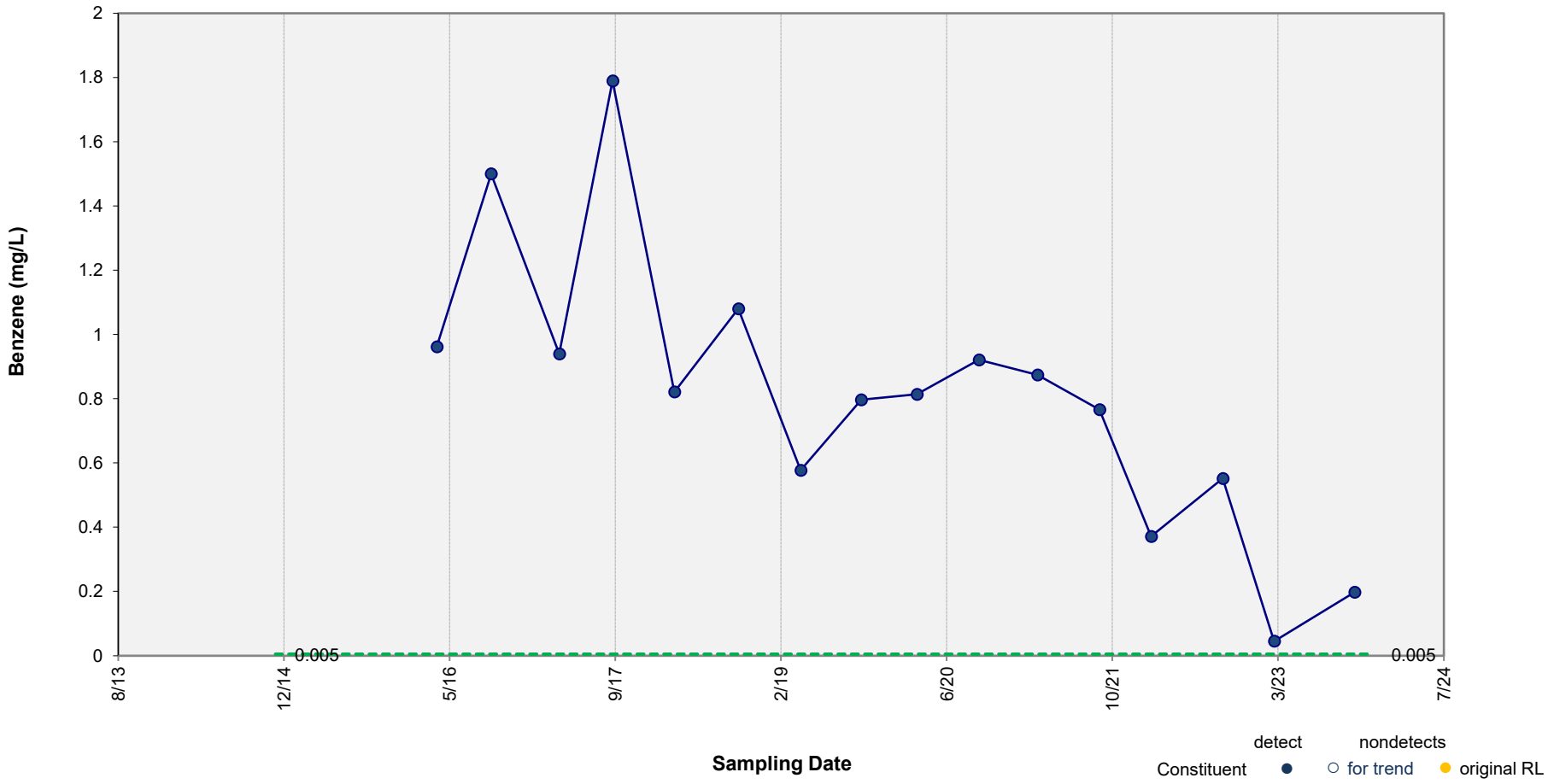
ARCADIS

Concentration vs. Time Plot - Benzene in TMW-1

Eunice South

Figure G-1

MK Trends_TMW-1_Benzene_HS



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = <0.001 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

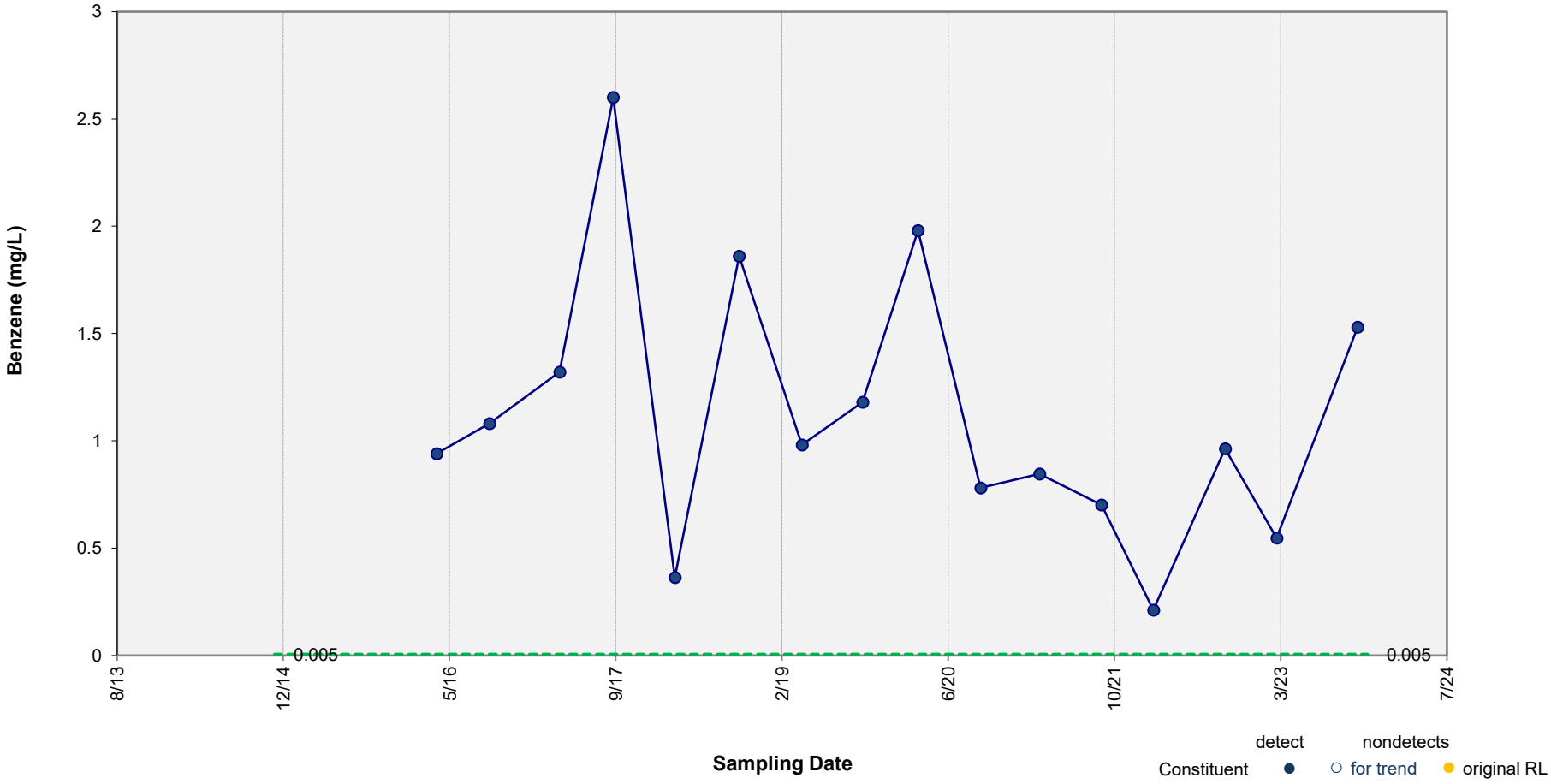
ARCADIS

Concentration vs. Time Plot - Benzene in MW-26

Eunice South

Figure G-2

MK Trends_MW-26_Benzene_HS



Results of Mann-Kendall Test for Trend: **No Significant Trend**

p value = 0.130 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

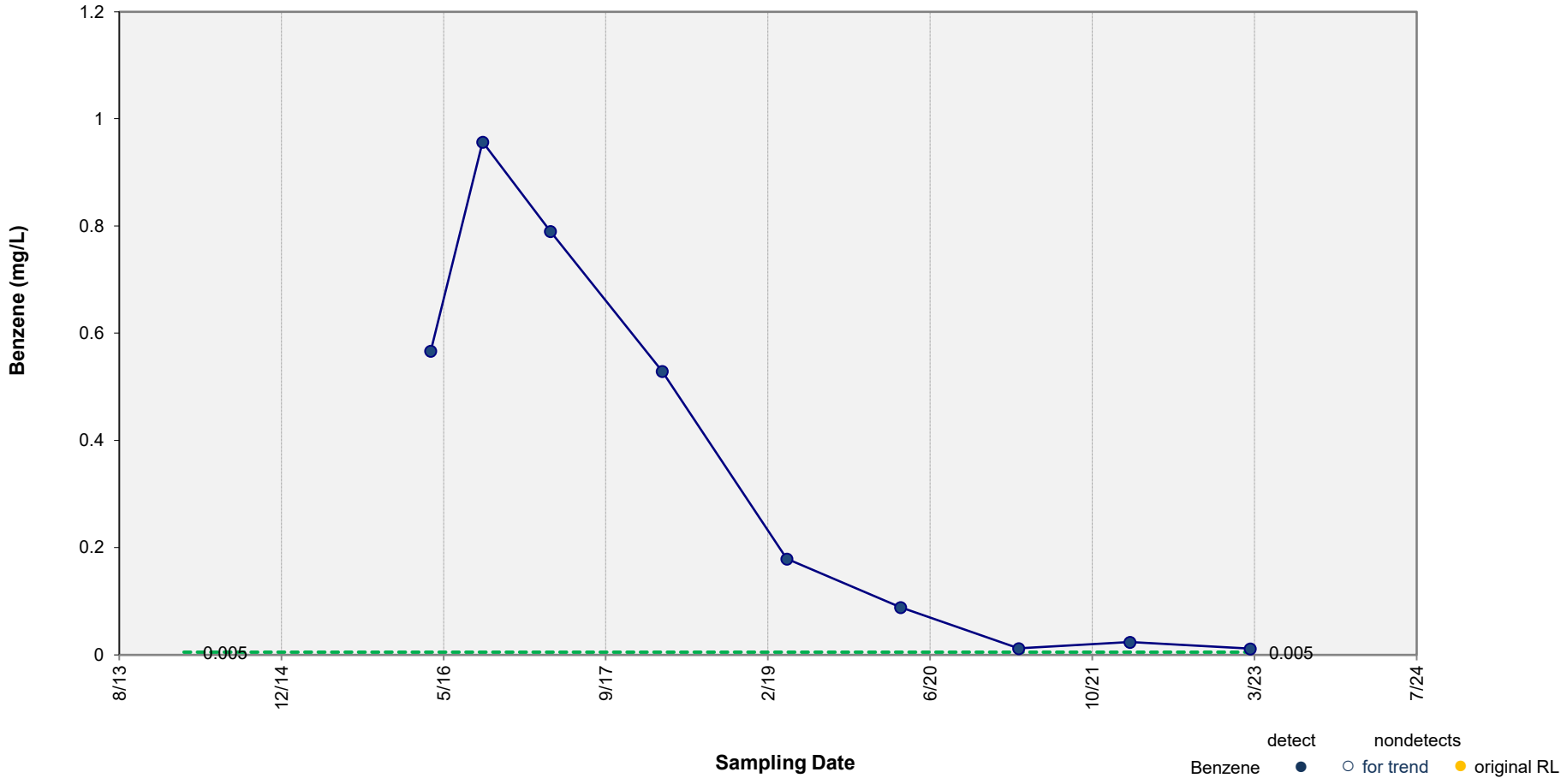
ARCADIS

Concentration vs. Time Plot - Benzene in MWD-14

Eunice South

Figure G-3

MK Trends_MWD-14_Benzene_HS



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = <0.001 Note: p value < 0.05 indicates a statistically significant trend (95% confidence level).

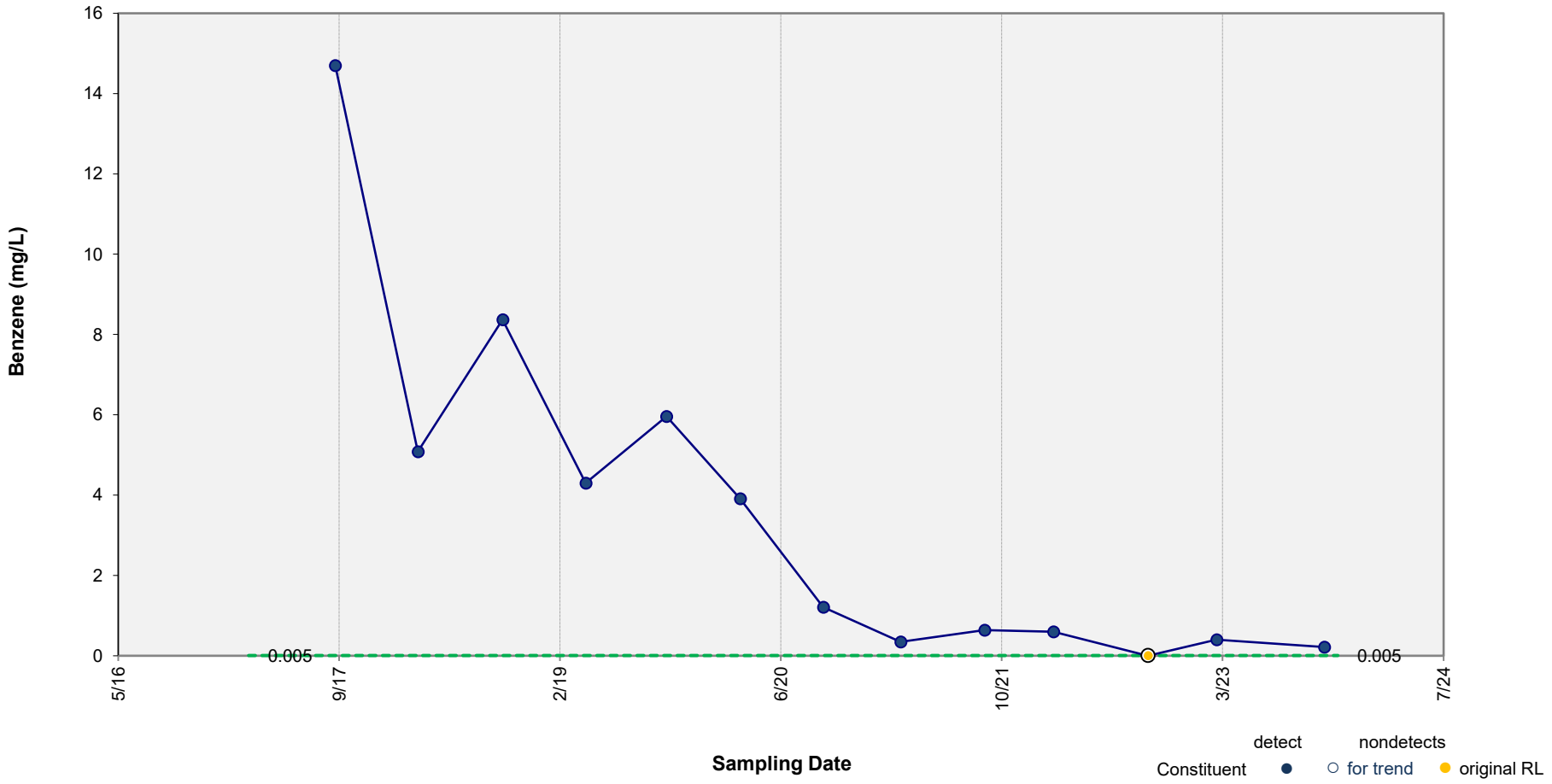
ARCADIS

Concentration vs. Time Plot – Benzene in Well MWD-17

Eunice South

Figure G-4

MK Trends_MWD-17_Benzene_HS



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = <0.001 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

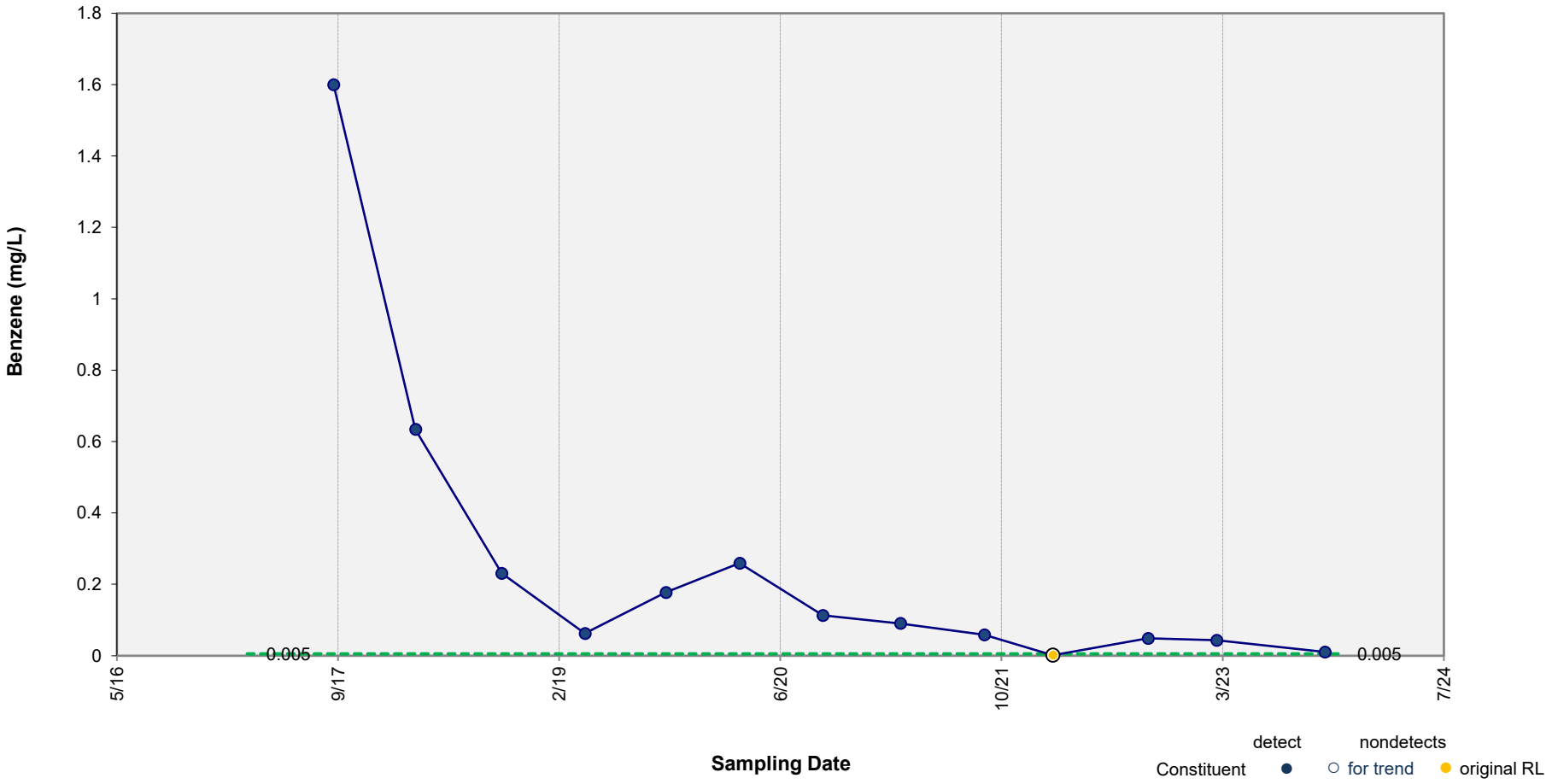
ARCADIS

Concentration vs. Time - Benzene in MW-32 (since 2017)

Eunice South

Figure G-5

MK Trends_MW-32_Benzene_HS_2017



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = <0.001 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

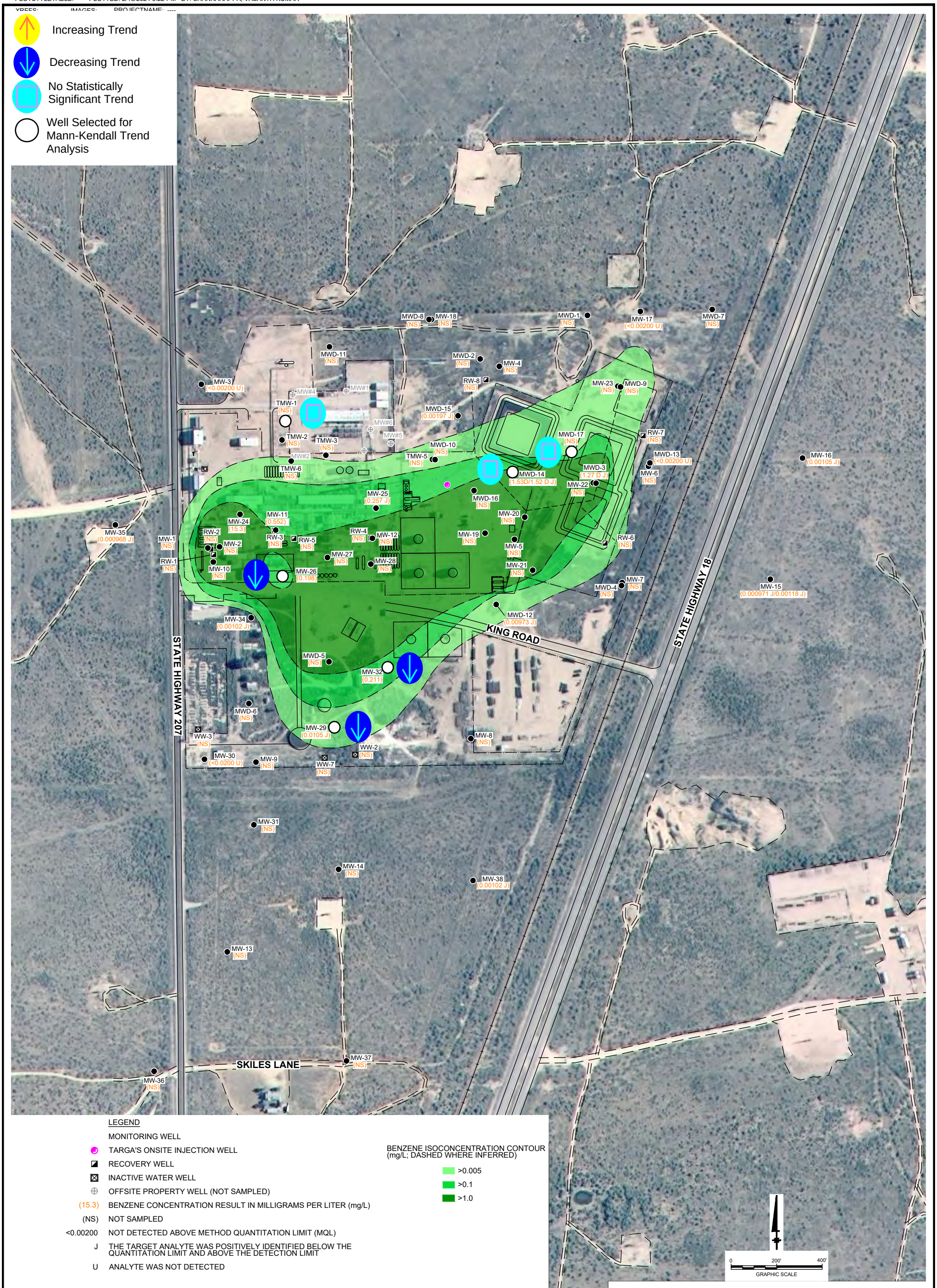
Concentration vs. Time Plot - Benzene in MW-29 (since 2017)

Eunice South

Figure G-6

MK Trends_MW-29_Benzene_HS_2017

C:\Users\shankarv4688\DC\ACCDocs\Arcadis ACC US\AUS-99999999-CHEV_FORMER EUNICE SOUTH GAS_EUNICE_NM\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\GWM-2023Q3-F06-BENEZENE FALL.dwg LAYOUT: 6 SAVED: 2/16/2024 6:20 PM ACADVER: 24.1S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 2/16/2024 6:22 PM BY: SHANKARAPPA, VASANTH KUMAR
XREFS: IMAGES: PROJECTNAME: ----



LEGEND

	MONITORING WELL
	TARGA'S ONSITE INJECTION WELL
	RECOVERY WELL
	INACTIVE WATER WELL
	OFFSITE PROPERTY WELL (NOT SAMPLED)
(15.3)	BENZENE CONCENTRATION RESULT IN MILLIGRAMS PER LITER (mg/L)
(NS)	NOT SAMPLED
<0.00200	NOT DETECTED ABOVE METHOD QUANTITATION LIMIT (MQL)
J	THE TARGET ANALYTE WAS POSITIVELY IDENTIFIED BELOW THE QUANTITATION LIMIT AND ABOVE THE DETECTION LIMIT
U	ANALYTE WAS NOT DETECTED

BENZENE ISOCONCENTRATION CONTOUR (mg/L; DASHED WHERE INFERRED)

- >0.005
- >0.1
- >1.0

NOTES:

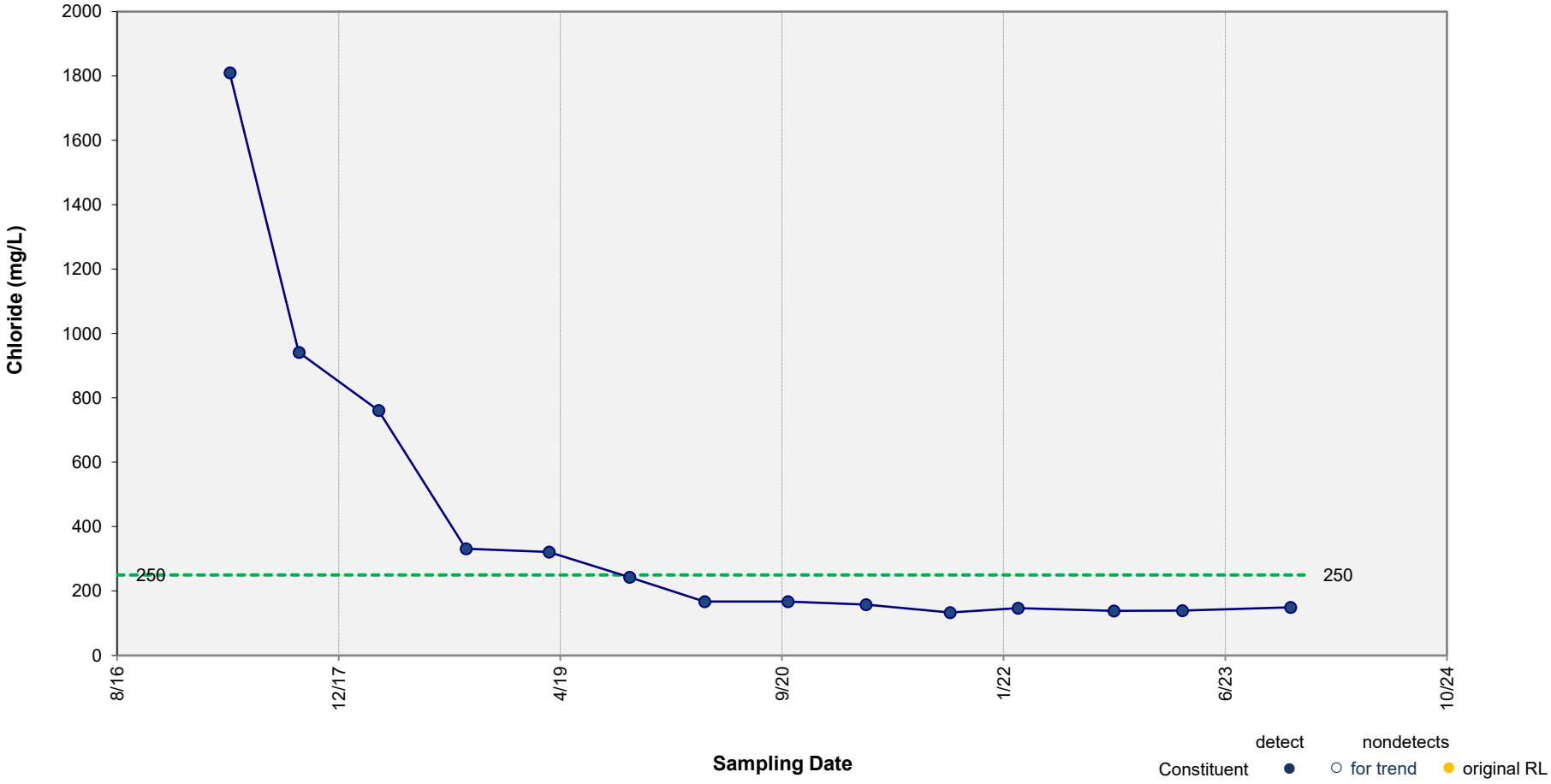
1. MAP PROJECTED TO NAD83 NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, FEET.
2. AERIAL IMAGERY PROVIDED BY USGS EARTH EXPLORER, ACCESSED APRIL 2016.
3. WELLS SURVEYED 1998, 2000, 2001, 2002, AND 2006 BY PIPER SURVEYING COMPANY. NAD27 NM S.P. EAST, FEET.
4. SITE FEATURES PROVIDED BY CRA
5. WELLS SAMPLED OCTOBER 31 AND NOVEMBER 1, 2023.
6. ONLY DATA POSTED IN FALL 2023 WERE POSTED. CONTOURS ARE BASED ON HISTORICAL DATA DATING BACK TO 2018 WHERE CURRENT DATA ARE NOT AVAILABLE.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER EUNICE SOUTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO

BENZENE 2023 MANN-KENDALL TREND SUMMARY

ARCADIS

FIGURE
G-7



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = <0.001 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

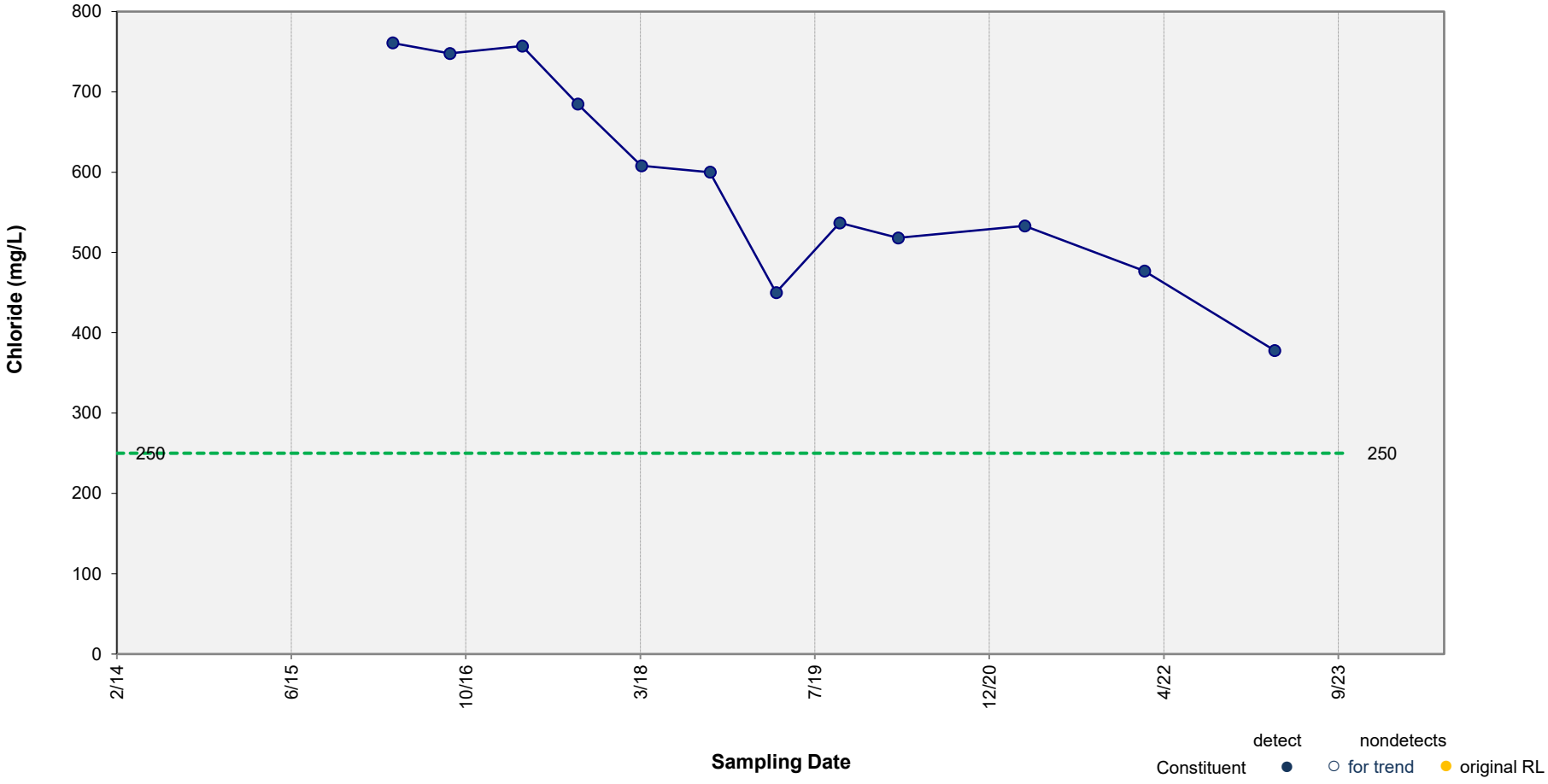
ARCADIS

Concentration vs. Time Plot - Chloride in MW-35

Eunice South

Figure G-8

MK Trends_MW-35_Chloride_HS



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = <0.001 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

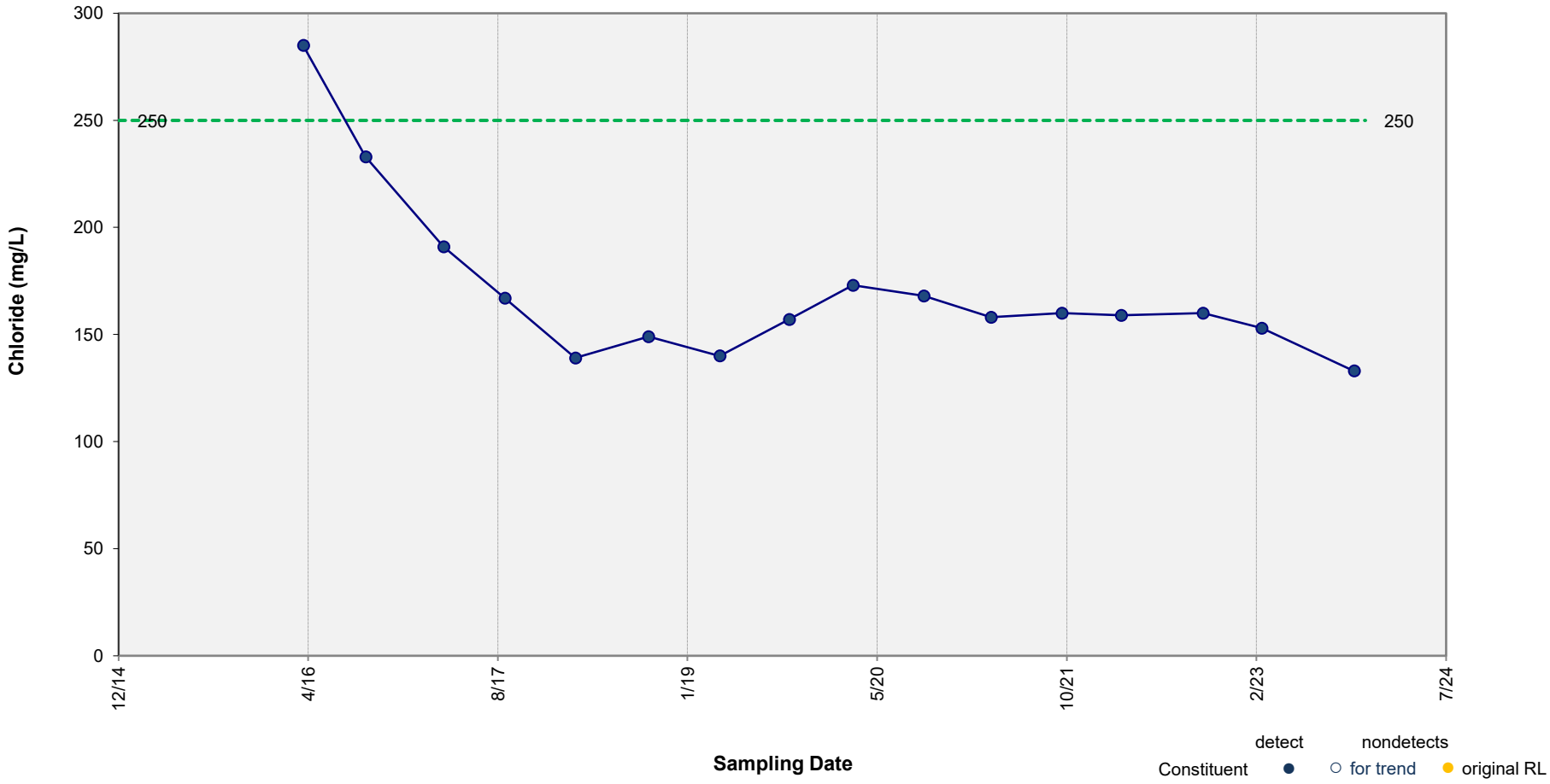
ARCADIS

Concentration vs. Time Plot - Chloride in TMW-1

Eunice South

Figure G-9

MK Trends_TMW-1_Chloride_HS



Results of Mann-Kendall Test for Trend: **Stable**

p value = 0.029 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

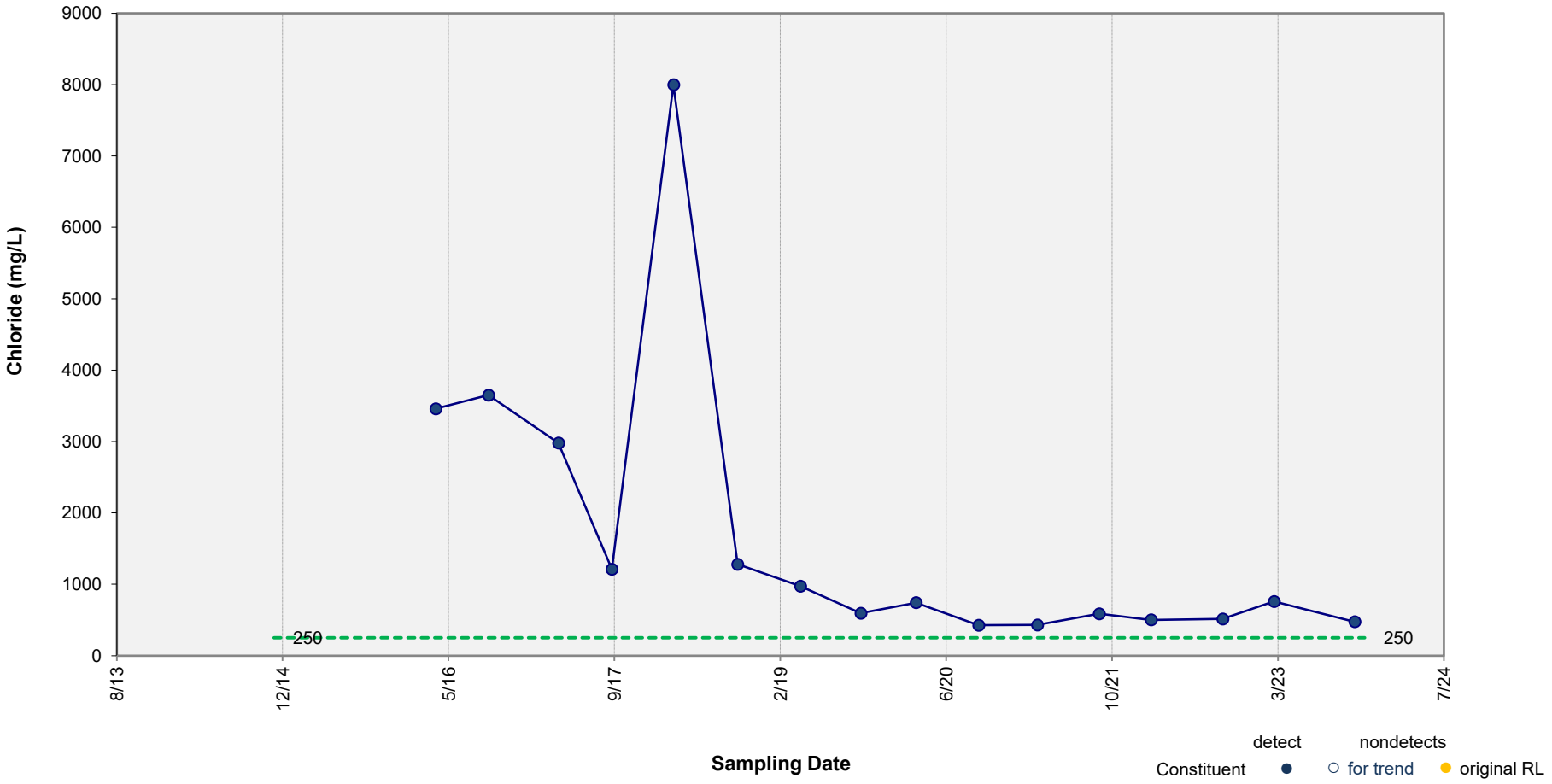
ARCADIS

Concentration vs. Time Plot - Chloride in MW-26

Eunice South

Figure G-10

MK Trends_MW-26_Chloride_HS



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = <0.001 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

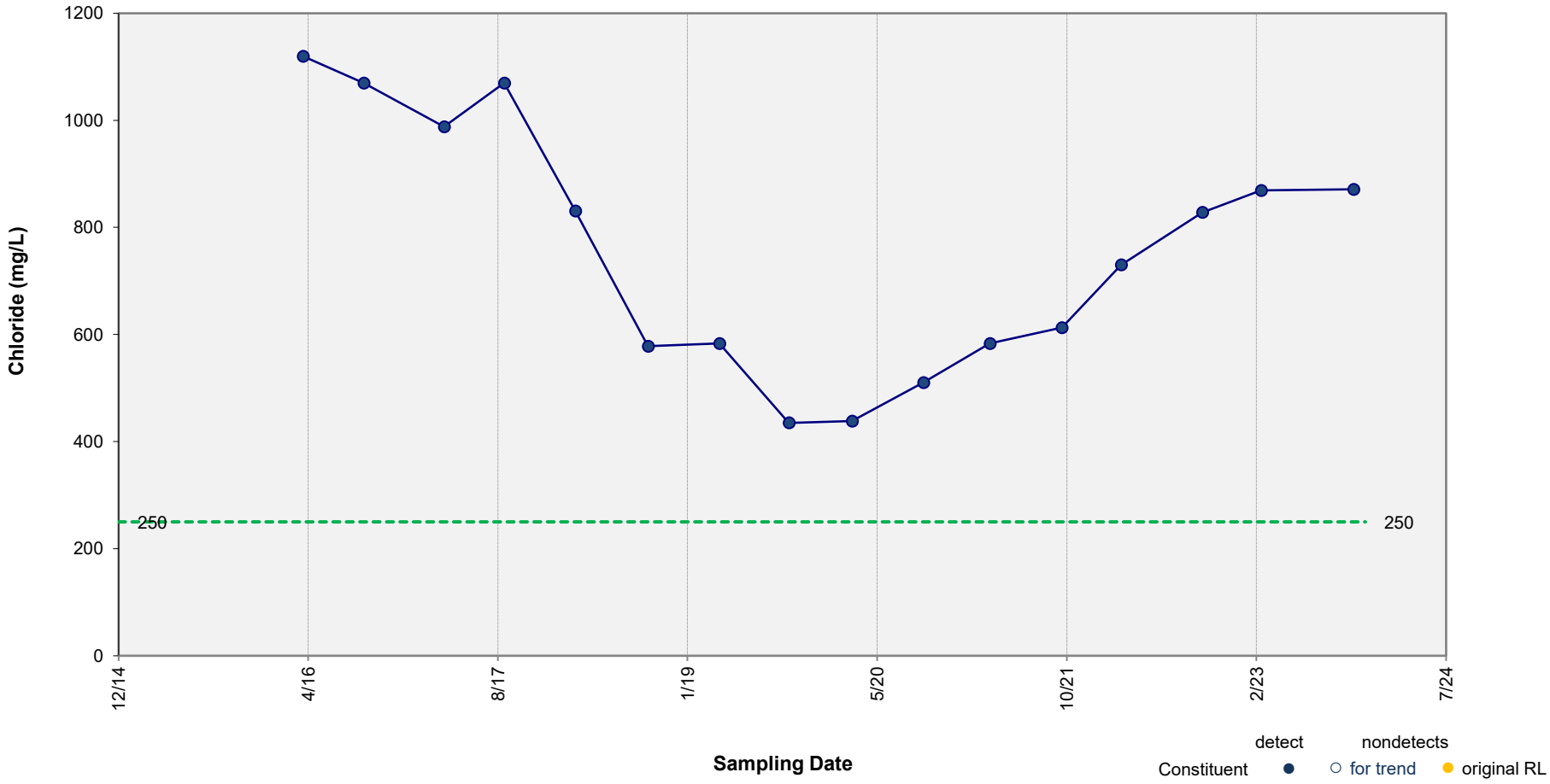
ARCADIS

Concentration vs. Time Plot - Chloride in MWD-14

Eunice South

Figure G-11

MK Trends_MWD-14_Chloride_HS



Results of Mann-Kendall Test for Trend:

No Significant Trend

p value = 0.249 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

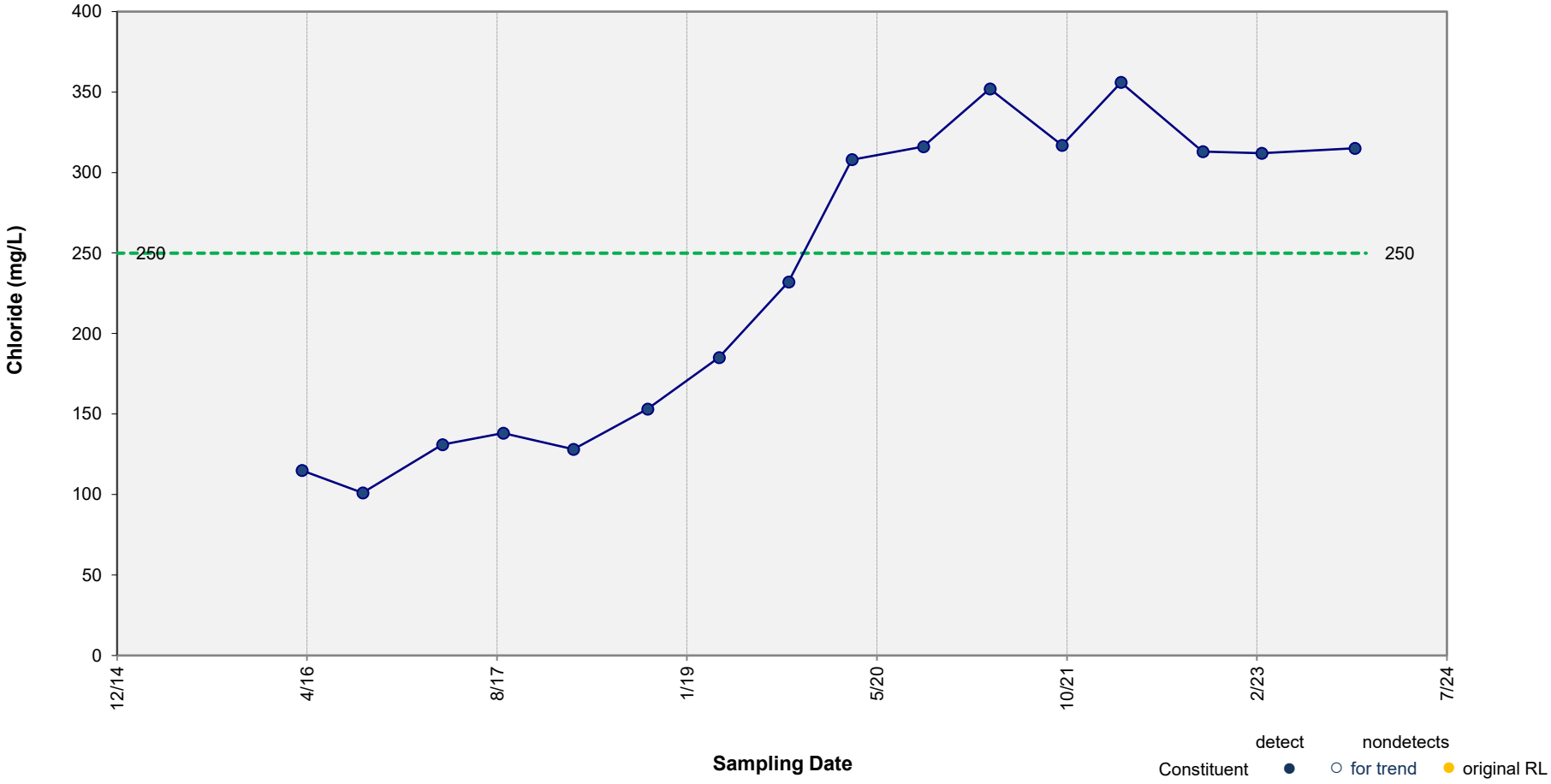
ARCADIS

Concentration vs. Time Plot - Chloride in MW-32

Eunice South

Figure G-12

MK Trends_MW-32_Chloride_HS



Results of Mann-Kendall Test for Trend: **INCREASING TREND**

p value = <0.001 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

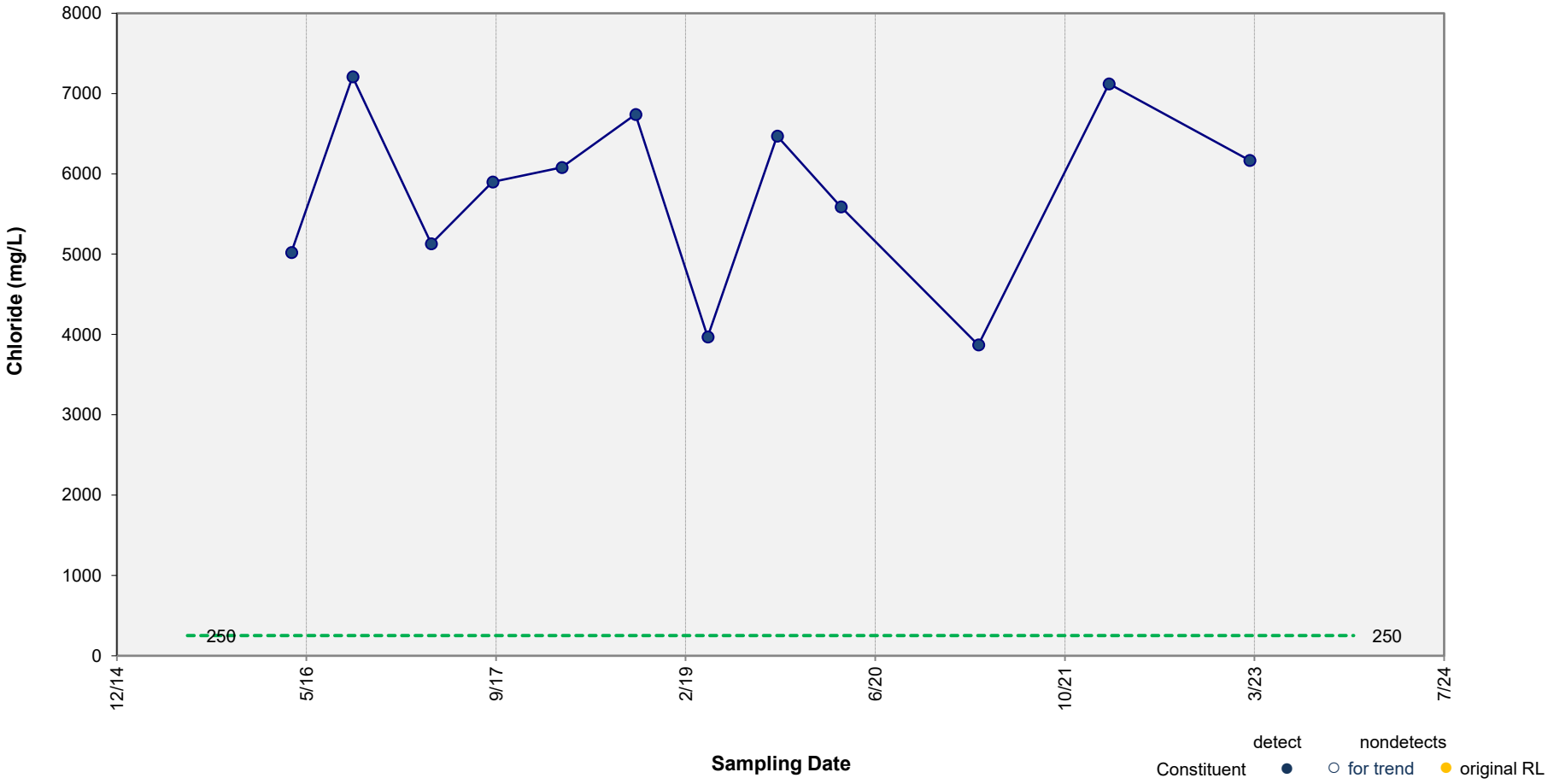
ARCADIS

Concentration vs. Time Plot - Chloride in MW-29

Eunice South

Figure G-13

MK Trends_MW-29_Chloride_HS



Results of Mann-Kendall Test for Trend: **Stable**

p value = 0.419 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

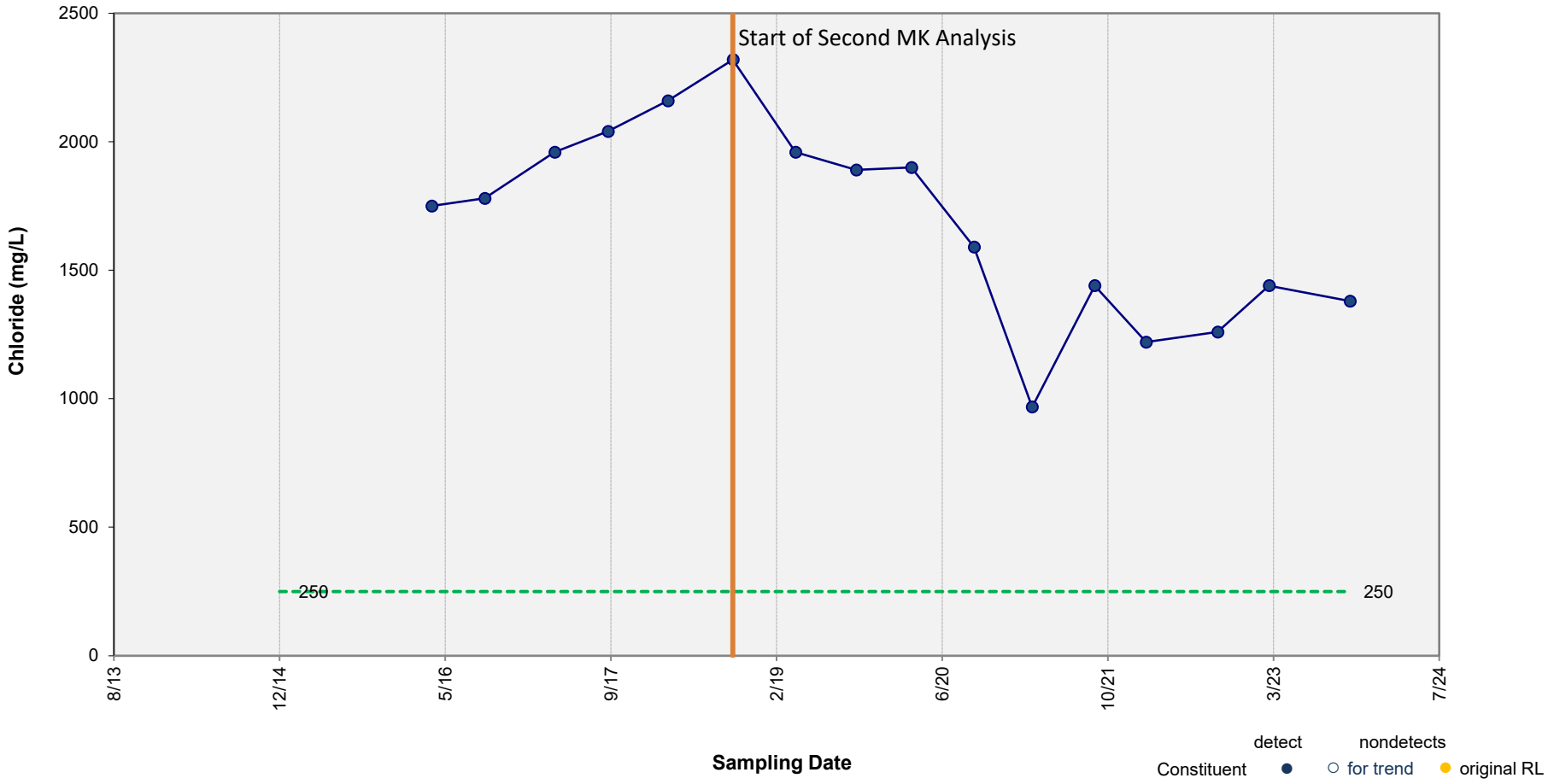
ARCADIS

Concentration vs. Time Plot - Chloride in MWD-7

Eunice South

Figure G-14

MK Trends_MWD-7_Chloride_HS



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = 0.008 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

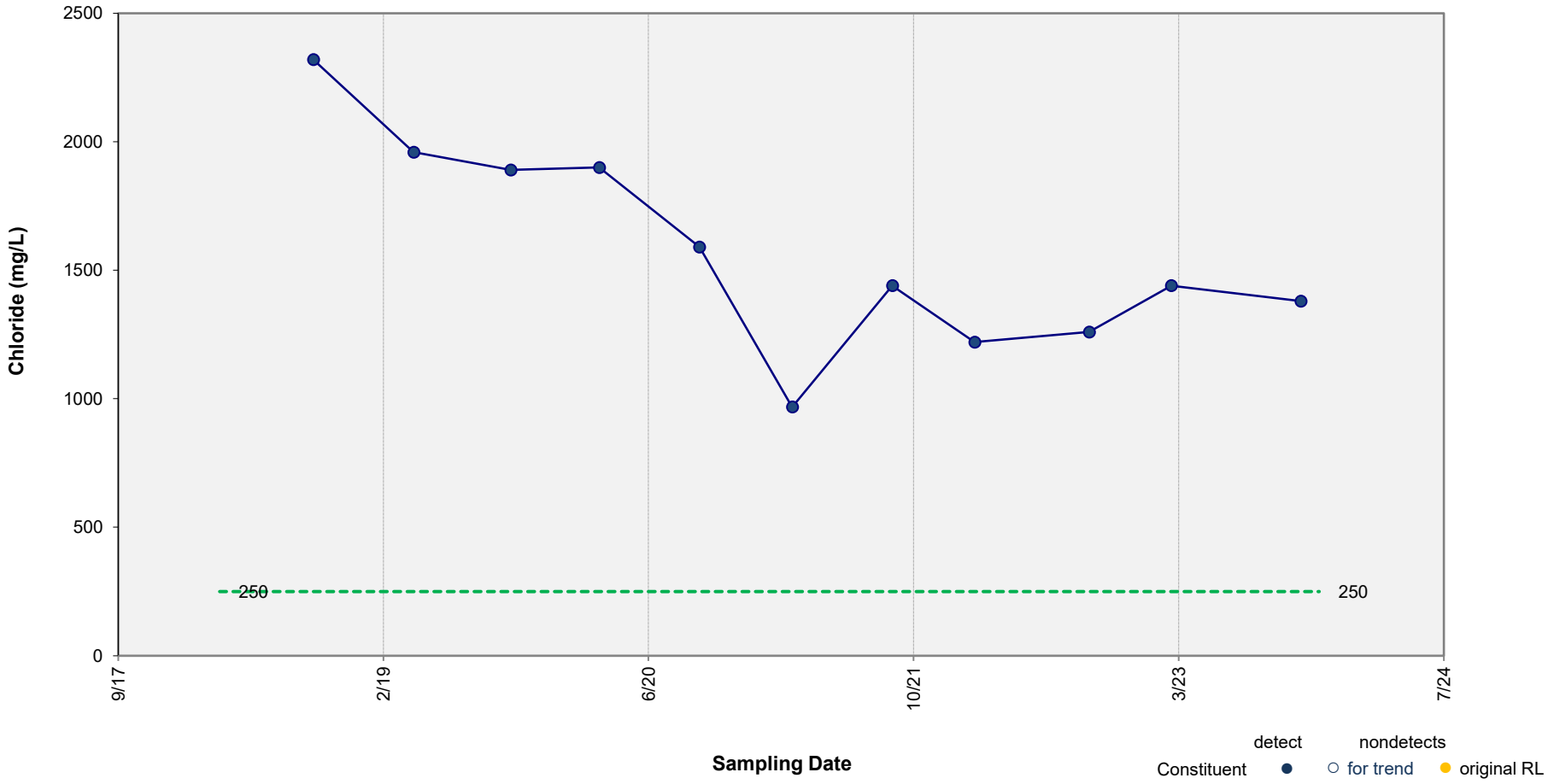
ARCADIS

Concentration vs. Time Plot - Chloride in MW-15

Eunice South

Figure G-15

MK Trends_MW-15_Chloride_HS



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = 0.008 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

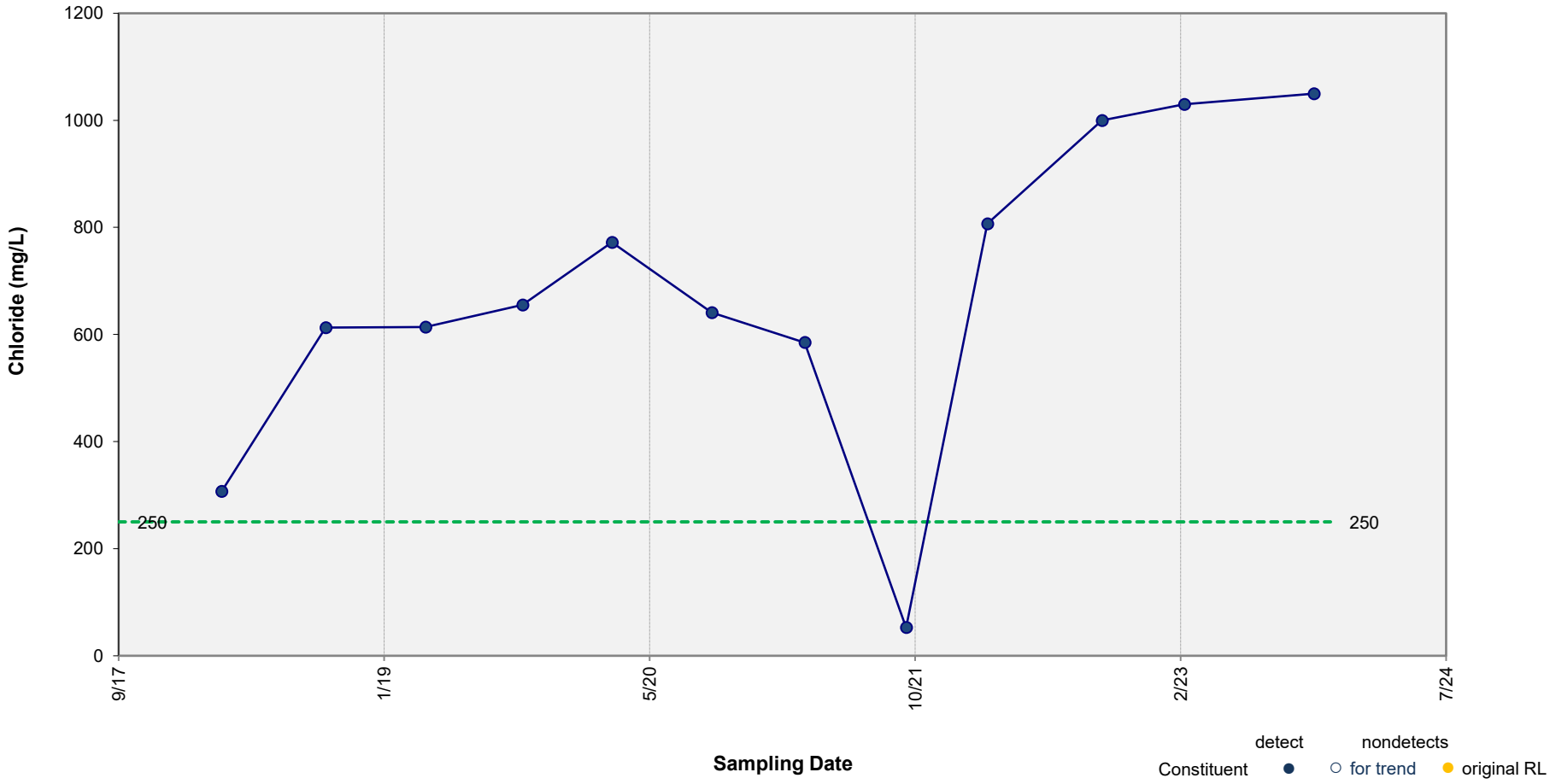
ARCADIS

Concentration vs. Time Plot - Chloride in MW-15

Eunice South

Figure G-16

MK Trends_MW-15_Chloride_HS1



Results of Mann-Kendall Test for Trend: **INCREASING TREND**

p value = 0.006 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

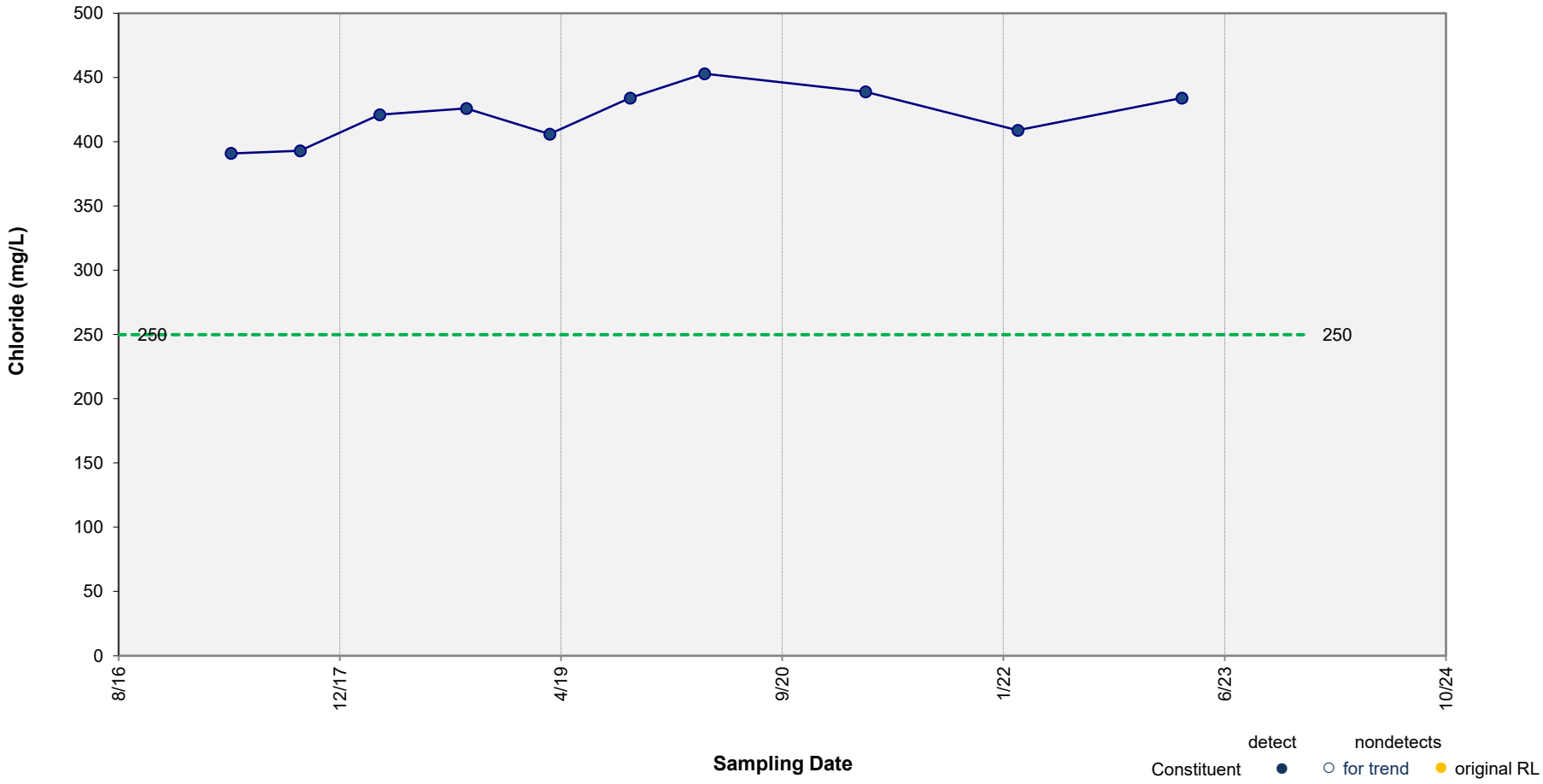
ARCADIS

Concentration vs. Time Plot - Chloride in MW-38

Eunice South

Figure G-17

MK Trends_MW-38_Chloride_HS



Results of Mann-Kendall Test for Trend: **INCREASING TREND**

p value = 0.019 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

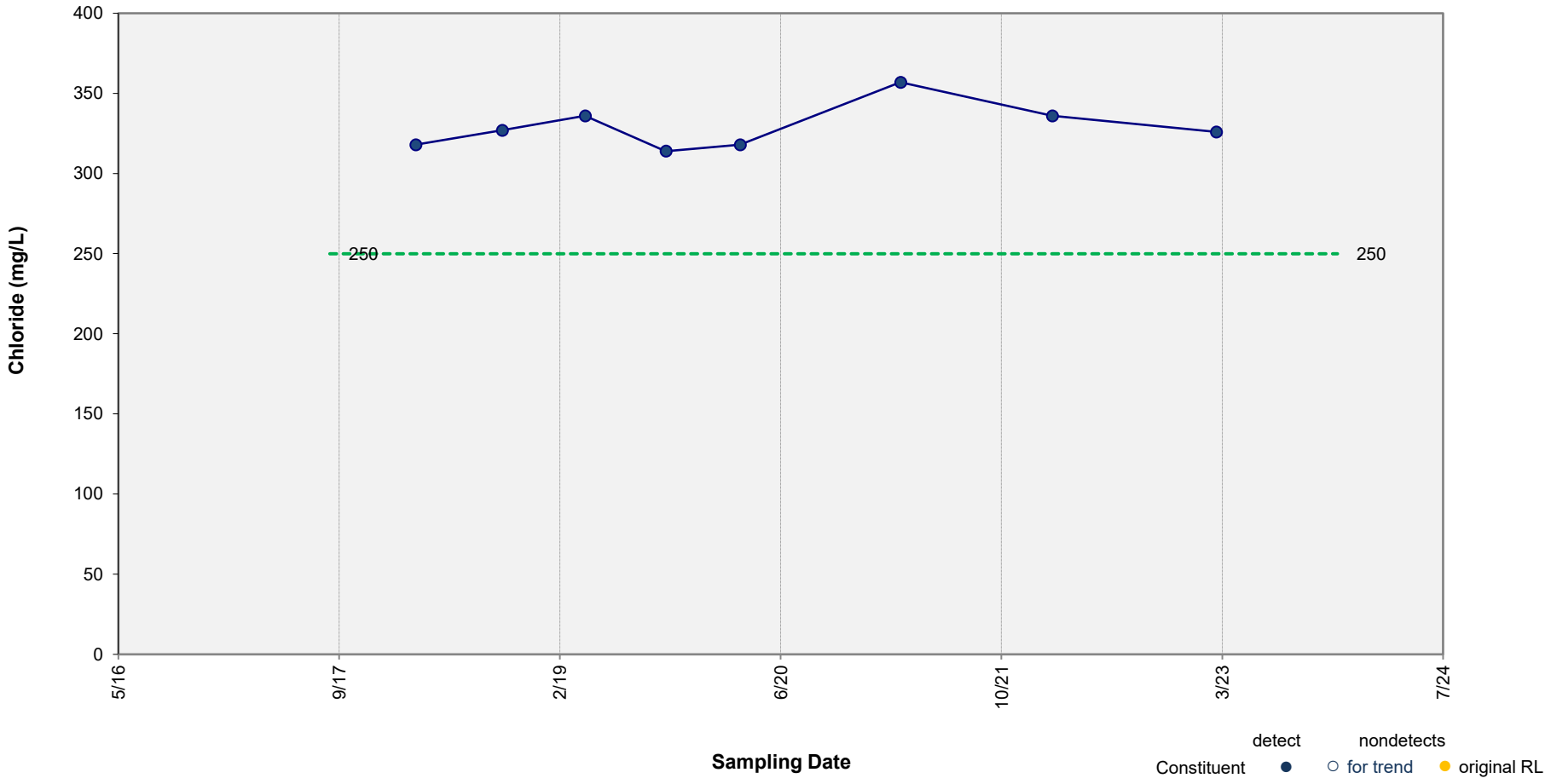
ARCADIS

Concentration vs. Time Plot - Chloride in MW-36

Eunice South

Figure G-18

MK Trends_MW-36_Chloride_HS



Results of Mann-Kendall Test for Trend: **Stable**

p value = 0.274 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot - Chloride in MW-37

Eunice South

Figure G-19

MK Trends_MW-37_Chloride_HS

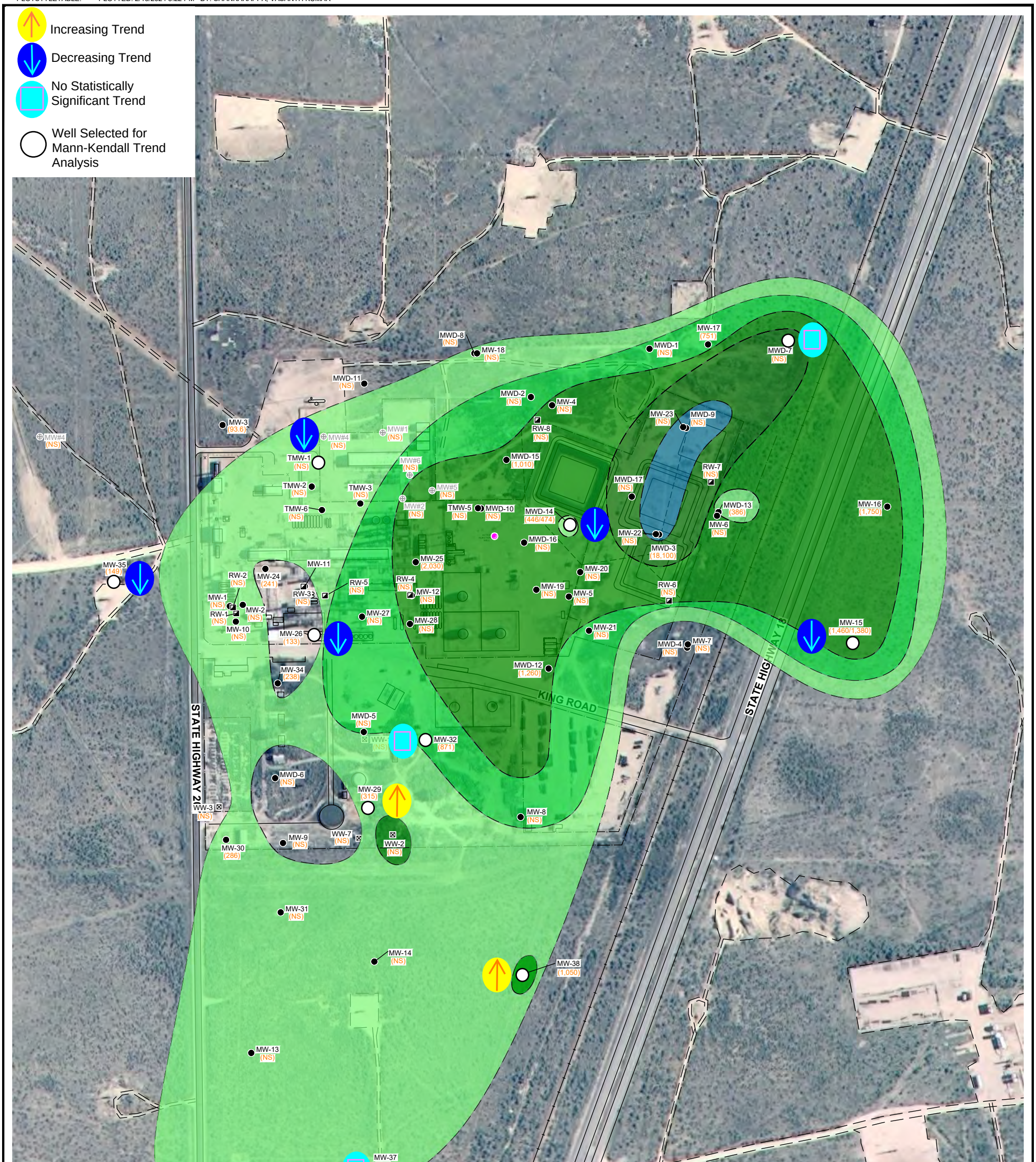
C:\Users\shankarv4688\DC\ACCDocs\Arcadis ACC US\AUS-99999999-CHEV_FORMER EUNICE SOUTH GAS_EUNICE_NM\Project Files\10_WIP\10T_ARC_ENV\2024\01-DWG\GWM-2023Q3-F08-CHLORIDE FALL.dwg LAYOUT: 8 SAVED: 2/16/2024 8:21 PM ACADVER: 24.1S (LMS TECH) PAGESETUP: ----
PLOTSTYLETABLE: ---- PLOTTED: 2/16/2024 8:22 PM BY: SHANKARAPPA, VASANTH KUMAR

Increasing Trend

Decreasing Trend

No Statistically Significant Trend

Well Selected for Mann-Kendall Trend Analysis



LEGEND

- MONITORING WELL
- TARGA'S ONSITE INJECTION WELL
- RECOVERY WELL
- INACTIVE WATER WELL
- OFFSITE PROPERTY WELL (NOT SAMPLED)
- (18,100) CHLORIDE CONCENTRATION IN MILLIGRAMS PER LITER (mg/L)
- NS NOT SAMPLED

CHLORIDE ISOCONCENTRATION CONTOUR (mg/L; DASHED WHERE INFERRED)

- >250
- >500
- >1,000
- >3,000
- >10,000

NOTES:

1. MAP PROJECTED TO NAD83 NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, FEET.
2. AERIAL IMAGERY PROVIDED BY USGS EARTH EXPLORER, ACCESSED APRIL 2016.
3. WELLS SURVEYED 1998, 2000, 2001, 2002, AND 2006 BY PIPER SURVEYING COMPANY. NAD27 NM S.P. EAST, FEET.
4. SITE FEATURES PROVIDED BY CRA.
5. WELLS SAMPLED OCTOBER 31 AND NOVEMBER 1, 2023
6. ONLY DATA POSTED IN FALL 2023 WERE POSTED. CONTOURS ARE BASED ON HISTORICAL DATA DATING BACK TO 2018 WHERE CURRENT DATA ARE NOT AVAILABLE.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER EUNICE SOUTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO

CHLORIDE 2023 MANN-KENDALL TREND SUMMARY

ARCADIS

FIGURE
G-20

APPENDIX H

Bioventing and Natural Source Zone Depletion Memo

MEMO

ARCADIS

To:
Jason Michelson, CEMC

Copies:
Madison Meissnest

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Highlands Ranch
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From:
Sonja Zabienski

Date:
March 2024

Arcadis Project No.:
30180531

Subject:

Bioventing and Natural Source Zone Depletion Evaluation Memo

Former Eunice South Gas Plant

Lea County, Eunice, New Mexico

Arcadis U.S., Inc. (Arcadis) prepared this Bioventing and Natural Source Zone Depletion Evaluation Memo on behalf of Chevron Environmental Management Company (CEMC) to present the results associated with bioventing operation and natural source zone depletion (NSZD) monitoring at the Former Eunice South Gas Plant (Site).

BIOVENTING OPERATION SUMMARY

Design Objectives and Approach

Bioventing is a remedial process in which oxygen is circulated through contaminated vadose zone soils via applied air flow for stimulation of microbial degradation of contaminants. Design of the bioventing system was based upon the following objectives:

- Achieve measurable light non-aqueous phase liquid (LNAPL) reduction at target wells using a cost-effective technology,
- Utilize mobile bioventing units for flexible use at wellheads, and
- Limit reliance on permanent infrastructure to the extent practicable (e.g., mobile power source).

Three mobile wellhead bioventing units were designed to accommodate simultaneous but independent operation at three individual wells. Wellhead units were designed to be transferable between wells as

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remediation progressed. Since wells with observed historic measurable LNAPL vary in diameter from 2-inch to 6-inch, bioventing units were designed with appropriate fittings to accommodate different well casing diameters. The bioventing units became operational in May 2017.

The bioventing units consist of a small blower connected to the wellhead to induce vacuum from the well. A 1/2-inch diameter vertical exhaust stack is connected to the pump outlet. Solar panels provide charge to one 12-volt battery per unit, which powers the pump. Because no additional power backup is supplied, the solar panels and battery have the capacity to allow for a maximum of six hours of operation per day with efficiency varying with the solar cycle in the area. The bioventing units do not operate when sufficient solar energy is not present.

Upon determination that bioventing has succeeded in remediation of LNAPL at the current locations, the units are relocated to operate at additional wellhead locations within the Site. The bioventing units are currently located at MW-27, MW-28, and RW-2. The unit originally operating at MW-1 was moved to monitoring well MW-27 in July 2020 based on recommendations from the 2019 Annual Groundwater Monitoring Report (Arcadis 2020).

Permitting

While the intent of bioventing is to provide oxygen via circulation of air through the vadose zone at a rate that is supportive of biodegradation, rather than volatilization, it is possible that some volatilization may occur, and vapors may be extracted through the bioventing units at levels requiring an air permit. Therefore, regular emission measurements from the bioventing units have been collected since startup in 2017 based on grab air samples collected from each well and submitted for analysis by US Environmental Protection Agency (US EPA) Method TO-15. Exhaust flow rates are approximately 1 cubic foot per minute (CFM) from each unit. Constituents monitored include total petroleum hydrocarbons (gasoline range) along with the applicable US EPA Hazardous Air Pollutants and New Mexico Toxic Air Pollutants (TAP).

On December 21, 2018, a request for concurrence on a no permit required (NPR) designation was sent to New Mexico Environmental Department Air Quality Bureau (AQB) based on the combined bioventing emission rates since startup in 2017. Emission rates were calculated with a conservative operational assumption of 14 hours per day, 365 days per year even though actual operation is closer to six hours per day based on the limitations of the solar panels and battery to provide power to the system. Under this assumption, bioventing emissions have been below the 10 tons per year VOC maximum limit for an NPR designation. The AQB approved the NPR designation on March 12, 2019.

The following section summarizes additional monitoring details.

System Operation and Natural Source Zone Depletion Monitoring

Wellhead bioventing units were installed on wells with observed historic measurable LNAPL for individual well treatment. Wells MW-1, RW-2, and MW-28 were initially identified for bioventing. Performance monitoring data for the unit installed at MW-1 indicated that remedial objectives had been achieved at this well, making the bioventing unit available for installation elsewhere on site. In July 2020, the unit operating at MW-1 was moved to monitoring well MW-27 and field parameters (VOCs, CO_2, H_2S, and O_2) at MW-27 were collected, recorded, and evaluated against existing bioventing operational data to confirm that emissions did not exceed New Mexico TAP standards. After the first month of operation, an effluent air sample was collected from well MW-27 and was analyzed for US EPA Method TO-15. Following startup and continuous operation, field parameters were collected at the bioventing unit at MW-27 monthly for the first quarter, then quarterly thereafter.

The calculated average total VOCs potential emissions rate was 3.5 tons per year (tpy) from October 2022 to September 2023. The calculated average total hazardous air pollutants emissions rate was 0.03 tpy for the same period. The results from the samples collected over the past year indicate that emissions did not exceed TAP standards (10 tpy) based on the conservative operational assumption of 14 hours per day, 365 days per year.

Well locations are presented in **Figure 1**. The following NSZD monitoring activities have been conducted to assess system operation and in-situ biodegradation at the Site:

- LNAPL baildown (transmissivity) testing
- Bioventing effluent vapor sampling at bioventing wells

LNAPL baildown testing has been conducted at wells containing LNAPL on an annual or biennial basis, depending on the location, to assess LNAPL transmissivity and the effectiveness of the system operation over time. LNAPL transmissivity was identified as a metric for system performance because it correlates to LNAPL recoverability and LNAPL saturation. In contrast, other potential metrics (like in-well thickness over time) are not well-correlated to recoverability or saturation. LNAPL transmissivity can track reductions in LNAPL saturation via mass removal or mass degradation in situ. The transmissivity results are used to assess the remedial effect of targeted efforts at higher-transmissivity wells and guide potential relocation of the bioventing systems to alternate wells once the desired saturation reductions have been reached at a specific well location. In 2023, the LNAPL baildown testing was conducted in November and December.

Bioventing effluent air samples for analysis of VOCs and NSZD indicators were collected monthly, when possible, from the startup of the bioventing units in 2017 to 2019. Quarterly sampling was initiated in 2019 and continued into the third quarter of 2020. Sampling has been conducted on an annual basis, with field readings collected quarterly, since 2021.

ANALYSIS

The section below provides further description and analysis of the NSZD monitoring activities.

LNAPL Transmissivity

LNAPL transmissivity represents the volumetric rate of LNAPL flow through a unit width of porous media per unit time under a hydraulic gradient, and is presented in units of area per time, such as square feet per day (ft^2/d). LNAPL transmissivity is well-suited for assessing LNAPL recoverability, inherently accounting for the combined effects of aquifer matrix permeability, LNAPL physical properties, and the relative proportion of pore space occupied by LNAPL within a specified vertical interval of aquifer material. LNAPL transmissivity values in the range of 0.1 to 0.8 ft^2/d are generally associated with the lower limits of practical hydraulic LNAPL recovery (ITRC 2009 and 2018), and several jurisdictions have adopted LNAPL transmissivity values within or below this range as an indication that LNAPL recovery to the extent practicable has been completed.

An ASTM International (ASTM) standard for LNAPL transmissivity measurement (ASTM 2013) provides standardized methods for LNAPL transmissivity measurement. The ASTM standard is intended to establish consistency between practitioners for field data collection and analysis procedures, facilitating wider adoption of LNAPL transmissivity as a metric for assessing practicality of LNAPL recovery. The Site activities conducted as part of this assessment were completed in accordance with the ASTM standard practices.

LNAPL Baildown Testing

LNAPL transmissivity was evaluated at the Site through analysis of LNAPL baildown tests at monitoring wells. LNAPL baildown tests are analogous to rising-head slug tests that are typically used to estimate the average hydraulic conductivity of saturated geologic formation materials proximal to the screened portion of a groundwater well under prevailing ambient test conditions. LNAPL is removed during a single event from the test well, in a relatively short period of time, and then fluid levels within the well are monitored to measure LNAPL recharge to the well and track LNAPL drawdown. LNAPL transmissivity values calculated from baildown testing are representative of the LNAPL transmissivity of the formation in the vicinity of the well being tested, under the conditions existing at the time of the test.

The LNAPL transmissivity values calculated from baildown test data were used to quantitatively characterize LNAPL transport conditions at the Site and to characterize LNAPL recoverability. Low LNAPL transmissivity values are indicative of conditions not conducive to practical hydraulic recovery. High LNAPL transmissivity values are indicative of higher LNAPL saturation and locally drainable/flowable LNAPL, and of locations ideal for bioventing in order to accelerate long-term reductions in LNAPL saturation and LNAPL mass.

Following the recommendation from 2019 to continue annual LNAPL baildown testing at wells with bioventing units and biennial LNAPL baildown testing at the remaining LNAPL wells (Arcadis 2020), testing was completed at the following wells between November and December 2023.

November 2-3, 2023	December 20-21, 2023
MW-2	MW-1
MW-19	MW-10
MW-20	MW-28
	RW-1
	RW-2
	RW-4
	RW-5
	TMW-2

MW-27 was intended to be tested, but the LNAPL thickness in the well was insufficient to provide estimates of transmissivity at the time of testing (ASTM, 2013). RW-5 and TMW-2 were instead tested due to the presence of LNAPL in those well at the time. LNAPL transmissivity tests have been completed since 2016. Data from these tests are presented in **Table 1** and **Figures 2 and 3**.

LNAPL baildown tests were analyzed using the API Transmissivity Workbook (API 2012) and in accordance with the recommendations of ASTM E-2856 (2013), using the Bouwer & Rice (B&R), Cooper & Jacob/Jacob & Lohmann (C&J), and Cooper-Bredhoeft-Papadopulos (CB&P) solutions contained within the API workbook. For transmissivity tests where the LNAPL removal period is over 1% of the total test time, the C&J and CB&P solutions are less robust than the B&R solution, as they assume an instantaneous slug introduction. In this situation, the former two tests yield high transmissivity values and the B&R solution is preferred.

Results

LNAPL transmissivity results are summarized in **Table 1**. LNAPL transmissivity values have remained relatively consistent over seven transmissivity testing events from August 2016 to December 2023, except for elevated values observed at bioventing wells MW-28 and RW-2 in 2022. Findings and conclusions from LNAPL transmissivity data include the following:

- LNAPL thickness was measured to be 0.1 ft at MW-27; this is an insufficient thickness to provide estimates of transmissivity at the well (ASTM 2013), so transmissivity testing was not completed at MW-27 in 2023.
- Results for bioventing well MW-28 indicate a decrease in LNAPL transmissivity from approximately 5.6 ft^2/d in 2022 to approximately 3.6 ft^2/d in 2023. Between 2016 and 2021, results appeared to be declining; 2023 results are nearly equal to the average value of previous years' results.
- Results for bioventing well RW-2 indicate a decrease in LNAPL transmissivity from 10.8 ft^2/d in 2022 to 5.1 ft^2/d in 2023. Except for 2022 results, transmissivity results for bioventing well RW-2 ranged between 4.2 ft^2/d to 8.6 ft^2/d from 2016 to 2023 and appear relatively stable over multiple testing events.
- Results for well MW-1 indicate a decrease in LNAPL transmissivity from approximately 0.7 ft^2/d in 2021 to approximately 0.6 ft^2/d in 2023.
- Results for well MW-2 indicate an increase in LNAPL transmissivity from approximately 4.9 ft^2/d in 2021 to approximately 5.6 ft^2/d in 2023.
- Transmissivity testing was not completed at well MW-5 based on previous performance summary recommendations (Arcadis, 2022).
- Results for well MW-10 indicate an increase in LNAPL transmissivity from approximately 0.03 ft^2/d in 2019 to approximately 0.1 ft^2/d in 2023.
- Transmissivity testing was not completed at well MW-12 based on previous performance summary recommendations (Arcadis, 2022).
- Results for well MW-19 indicate an increase in LNAPL transmissivity from approximately 0.22 ft^2/d in 2021 to approximately 1.0 ft^2/d in 2023.
- Results for well MW-20 indicate a decrease in LNAPL transmissivity from approximately 0.6 ft^2/d in 2021 to approximately 0.3 ft^2/d in 2023.
- Transmissivity testing was not completed at well MW-21 based on previous performance summary recommendations (Arcadis, 2022).
- Results for well RW-1 indicate an increase in LNAPL transmissivity from approximately 1.0 ft^2/d in 2021 to approximately 1.4 ft^2/d in 2023.
- Results for well RW-4 indicate an increase in LNAPL transmissivity from approximately 0.6 ft^2/d in 2021 to approximately 3.6 ft^2/d in 2023.
- Results for well RW-5 indicate a decrease in LNAPL transmissivity from approximately 4.1 ft^2/d in 2018 to approximately 1.2 ft^2/d in 2023. Note that 2023 results at this well were based on the B&R

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solution alone, as slug introduction was not instantaneous (i.e., the removal period was over 1% of the entire test duration; ASTM 2013).

- Results for well TMW-2 indicate a decrease in LNAPL transmissivity from approximately 1.9 ft^2/d in 2018 to approximately 0.7 ft^2/d in 2023.

LNAPL transmissivity will continue to be monitored at the bioventing wells annually to assess changes in conditions and determine whether bioventing systems should be moved to alternate wells. Current values indicate that transmissivity remains above the ITRC lower limit of practical hydraulic LNAPL recovery (0.8 ft^2/day), and bioventing is still meaningful at these wells.

Bioventing Performance

As described in previous submittals, bioventing is a remedial process in which oxygen is circulated through contaminated vadose zone soils via applied air flow for stimulation of microbial degradation of contaminants. The system installation and startup processes are described below, along with results of performance monitoring conducted to date.

System Installation, Startup, and Operation

As discussed above, wellhead bioventing units were initially installed on wells MW-1, RW-2 and MW-28. The wellhead bioventing unit installed on well MW-1 was moved to MW-27 in July 2020. Bioventing units ran through 2020 and 2021 with intermittent, unscheduled downtime for maintenance and repairs. The biovent at RW-2 was down for a portion of 2021 due to battery issues that were resolved after installation of a new pump in April 2022.

In late 2022, a HOBO Motor On/Off Data Logger was installed on each of the three biovent systems to track system runtimes more accurately. The biovent at MW-28 was not running from September 2022 until April 2023, when the inverter, diaphragms, and battery were replaced, and the unit returned to operation. The biovent at MW-28 ran for approximately three to five hours per day in 2023, respectively. The bioventing unit at RW-2 stopped running in November 2022 until the battery and diaphragm were replaced in March 2023, and the unit began running consistently for an average of four hours per day for the remainder of 2023. MW-27 ran for an average of five hours per day during 2023.

Performance Monitoring

The wellhead bioventing units are not intended to act like soil vapor extraction systems and remove total petroleum hydrocarbon mass; although TPH concentrations were measured during performance monitoring, the key performance indicators are CO_2, O_2, and temperature. Effluent gas monitoring was conducted to determine the volume of VOCs that have been removed and the rate of LNAPL degradation that has been achieved.

Effluent gas samples were collected from each bioventing unit for analysis of VOCs, total petroleum hydrocarbons (TPH), and CH_4, CO_2, oxygen and hydrogen sulfide. Gas samples were collected generally one to two hours after the bioventing systems started up. Grab samples were collected for measurement of CH_4, CO_2, oxygen and hydrogen sulfide in the field and summa canisters were sent to a laboratory for analytical testing of VOCs and TPH. The flow rate and measured concentration of CO_2 and CH_4 were used to calculate an emission rate in pounds per hour and tons per year (**Table 2**). When petroleum hydrocarbon molecules are converted to the end products of methane and carbon dioxide (CO_2 and CH_4 are both generated in anaerobic conditions, while only CO_2 is generated under aerobic conditions) each

carbon atom will correspond to one molecule of either CO_2 or CH_4. Assuming a hydrocarbon compound of octane (C_8H_{18}), eight moles of CO_2 or CH_4 correspond to one mole of C_8H_{18}. Following this relationship and assuming an LNAPL density of 0.8 grams per mole (g/mol), the following approximate equivalents can be calculated:

- 1 pound per hour (lb/hr) of CH_4 is generated from 1.6 gallons per day (gal/day) of C_8H_{18}
- 1 lb/hr of CO_2 is generated from 0.58 gal/day of C_8H_{18}

The field gas monitoring instrument measured overrange CH_4 values at MW-27 and RW-2 in the third quarter of 2023 and at all biovent units in the fourth quarter. As a result, CH_4 values were estimated during these events for the total hydrocarbon depletion rates calculations (**Table 2**). Due to the possibility that VOCs in the biovent effluent are interfering with CH_4 readings, carbon filters will be tested on the instrument intake in 2024 to minimize interference and provide more accurate readings.

The calculated depletion rates at MW-28 ranged from less than 0.1 gal/day to 8.0 gal/day since startup at this well in 2017; in 2023, the average depletion rate was approximately 1.3 gal/day. At RW-2, the rates since startup ranged from less than 0.1 gal/day to 5.0 gal/day; in 2023, the average depletion rate was approximately 1.0 gal/day. At MW-27, the rates since startup ranged from less than 0.1 gal/day to 4.2 gal/day with an average depletion rate of 1.5 gal/day in 2023.

Prior to 2023, runtimes were estimated at 6 hours per day to calculate depletion rates. Loggers intended to record motor on/off conditions were installed on all bioventing units in 2022; in most cases, runtimes were calculated based on these logs in 2023. Actual runtimes used in 2023 depletion calculations are lower than the estimated runtimes used in previous years.

Using an average degradation rate for each well and the actual runtimes, the total volume of LNAPL that has been degraded from startup through December 19, 2023 has been calculated as approximately 4,880 gallons based on measurement of CO_2 and CH_4 generation.

Biodegradation and Performance Summary

LNAPL transmissivity data indicate that LNAPL recoverability has remained relatively consistent at the bioventing locations. In 2023, transmissivity values indicate that there is still potential for LNAPL recoverability at RW-2 and MW-28. While it is expected to see decreases in LNAPL transmissivity at bioventing wells as LNAPL degradation progresses, it is likely that transmissivity values will continue to vary with fluctuating water levels but will follow a generally declining trend as LNAPL mass continues to biodegrade and LNAPL saturation is accordingly reduced.

Based on the bioventing air emissions tracking data reviewed above, bioventing is having an observable positive impact on LNAPL degradation rates at the Site relative to ambient conditions, with approximately 4,880 gallons of LNAPL degraded over the course of system operation through December 2023.

Following this evaluation, Arcadis recommends the following:

- Continued operation of bioventing systems at MW-27, MW-28, and RW-2 for further LNAPL degradation.
  - Quarterly collection of effluent field readings with carbon filter to improve methane measurements
  - Annual analytical gas sample collection in the third quarter of 2024.
  - Re-evaluation of the systems using field and analytical results to determine if removal rates become asymptotic.

- Continued annual LNAPL baildown testing in 2024 at wells with bioventing units (MW-27, MW-28, and RW-2).
- Continued biennial LNAPL baildown testing at wells MW-1, MW-2, MW-10, MW-19, MW-20, MW-27, MW-28, RW-1, RW-2, and RW-4 in 2025.
- Potential relocation of the biovents will not be recommended unless 2024 performance monitoring data indicates that hydrocarbon mass depletion is declining substantially below levels that could be achieved at other locations, or that transmissivity is below the lower limit of practical hydraulic LNAPL recovery and remedial objectives have been achieved.

Arcadis will provide CEMC an update on performance on an annual basis.

REFERENCES

API (American Petroleum institute), 2012. API Publication 4762: API LNAPL Transmissivity Workbook: A Tool for Baildown Test Analysis.

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FIGURES

Figure 1 Site Layout Map with Bioventing System Locations

Figure 2 LNAPL Transmissivity Results for MW-1, MW-2, MW-5, MW-19, MW-20, and MW-21

Figure 3 LNAPL Transmissivity Results for MW-27, MW-28, RW-1, RW-2, and RW-4

TABLES

Table 1 LNAPL Transmissivity Test Summary

Table 2 Bioventing Emissions Summary

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Figures

CITY: SAN RAFAEL, CA DIV/GROUP: ENVCAD DB: J. HARRIS
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LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- TARGA'S ONSITE INJECTION WELL
- RECOVERY WELL
- INACTIVE WATER WELL
- OFFSITE PROPERTY WELL (NOT SAMPLED)
- BIOVENTING WELL
- BAILDOWN TESTING COMPLETED

NOTES:

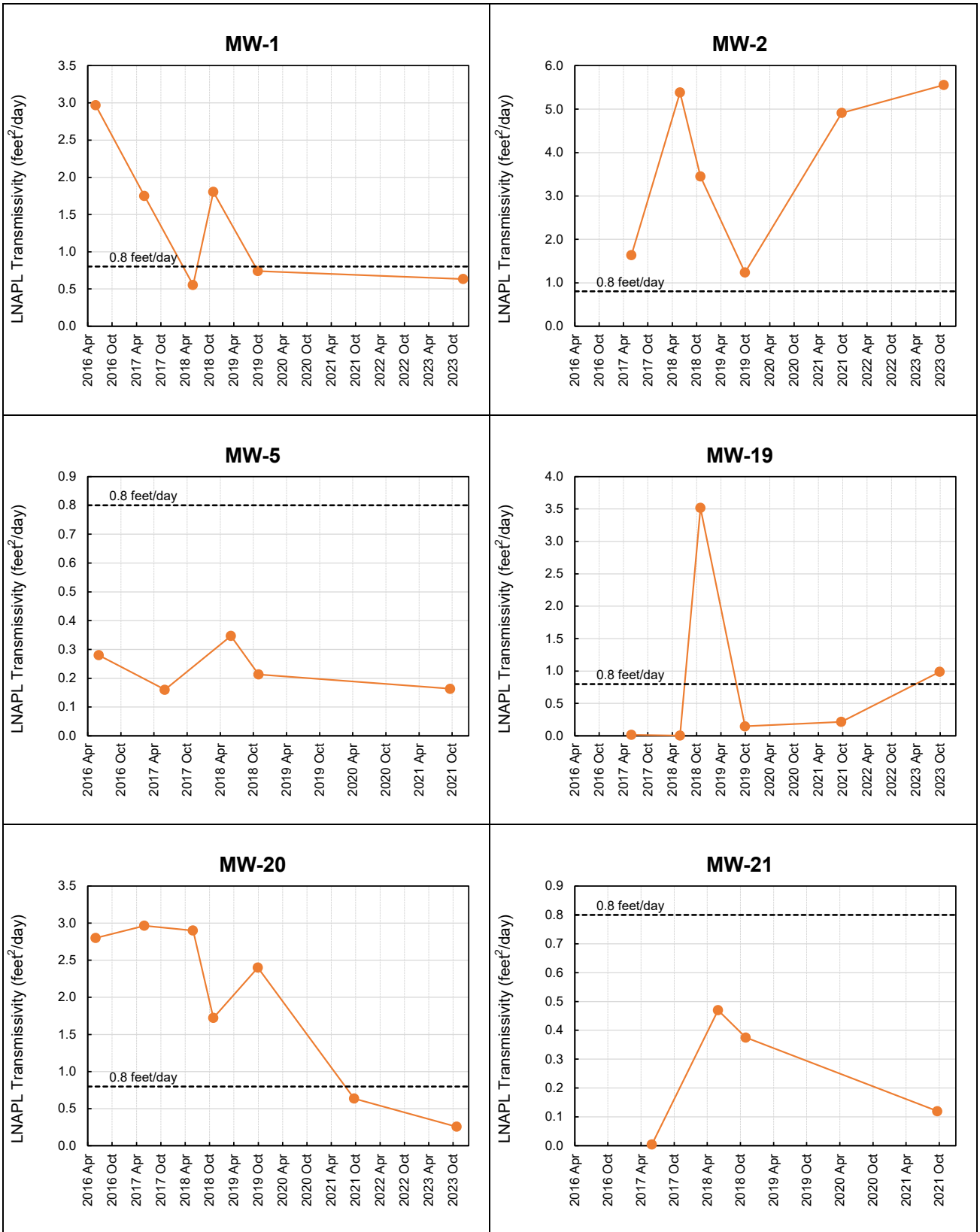
1. MAP PROJECTED TO NAD83 NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, FEET.
2. AERIAL IMAGERY PROVIDED BY USGS EARTH EXPLORER, ACCESSED APRIL 2016.
3. WELLS SURVEYED 1998, 2000, 2001, 2002, AND 2006 BY PIPER SURVEYING COMPANY. NAD27 NM S.P. EAST, FEET.
4. SITE FEATURES PROVIDED BY CRA.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER EUNICE SOUTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO

SITE LAYOUT MAP WITH BIOVENTING SYSTEM LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1



Notes:

Plots were not developed for wells with three or less transmissivity test results.

● LNAPL Transmissivity (feet²/day)

▬ ▬ 0.8 feet²/day is the lower limit of practical hydraulic LNAPL recovery

ARCADIS

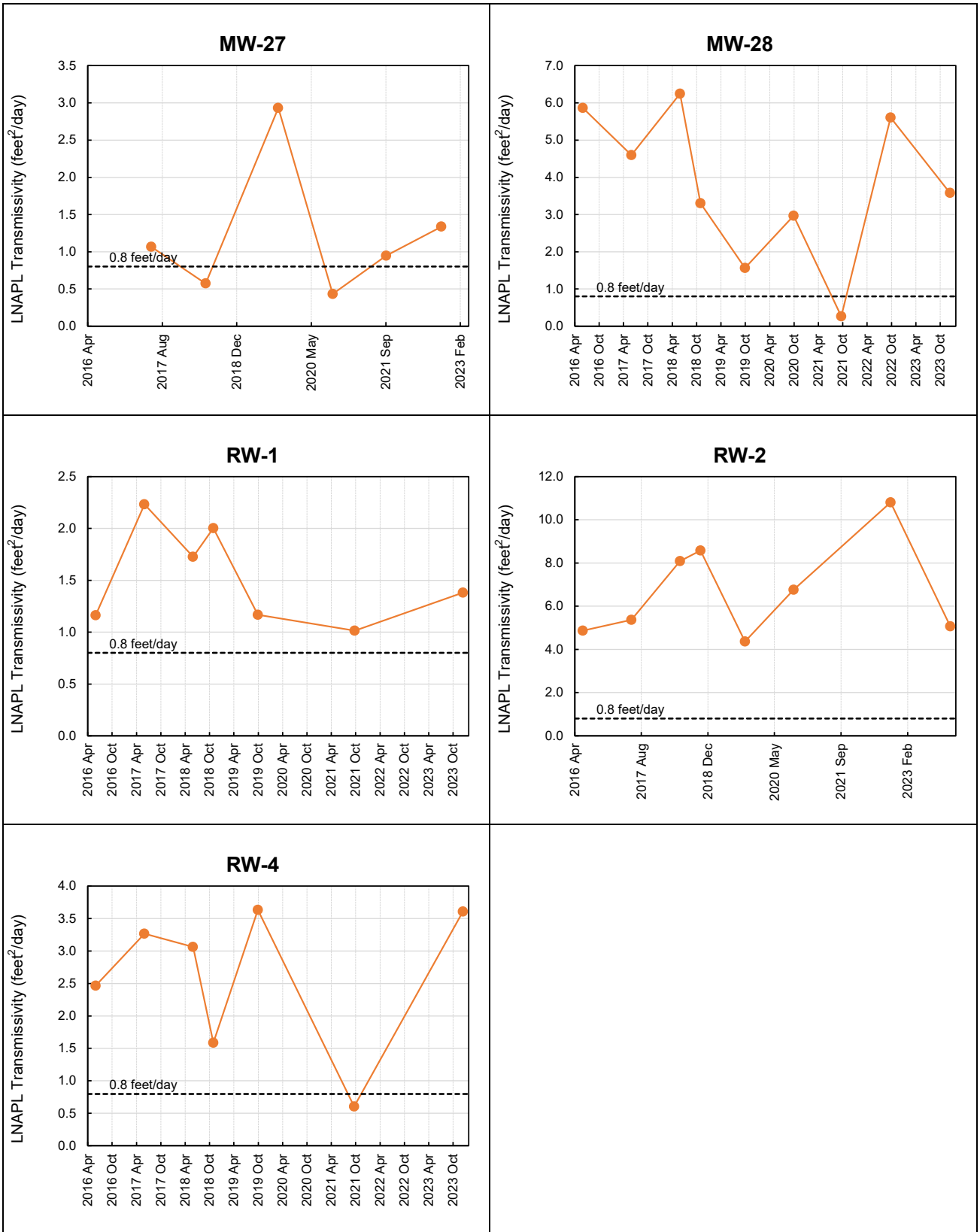
LNAPL Transmissivity Results for MW-1, MW-2, MW-5, MW-19, MW-20, and MW-21

Bioventing and Natural Source Zone Depletion Evaluation Memo

Former Eunice South Gas Plant, Lea County, Eunice, New Mexico

FIGURE

2



Notes:

Plots were not developed for wells with three or less transmissivity test results.

● LNAPL Transmissivity (feet²/day)

▬ ▬ 0.8 feet²/day is the lower limit of practical hydraulic LNAPL recovery

ARCADIS

LNAPL Transmissivity Results for MW-27, MW-28, RW-1, RW-2, and RW-4

Bioventing and Natural Source Zone Depletion Evaluation Memo

Former Eunice South Gas Plant, Lea County, Eunice, New Mexico

FIGURE

3

Tables

Table 1
LNAPL Transmissivity Test Summary
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

Well ID	Test Date	Time Cut (minutes)	Initial LNAPL Thickness (feet)	Test Duration (minutes)	Final LNAPL Thickness (feet)	Percent Recovery	LNAPL Transmissivity (ft^2/day)										
							Bouwer and Rice	Cooper and Jacob/Jacob and Lohman	Cooper, Bredehoeft, and Papadopoulos	2023 Arithmetic Mean	*2022 Arithmetic Mean* [b]	*2021 Arithmetic Mean* [b]	*2020 Arithmetic Mean* [b]	*2019 Arithmetic Mean* [b]	*2018 Arithmetic Mean* [b]	*2017 Arithmetic Mean* [b]	*2016 Arithmetic Mean* [b]
MW-1	12/21/2023	12	1.39	132	1.36	98%	0.57	0.64	0.69	0.63	---	---	---	0.74	0.55 **1.8**	**1.8**	**3.0**
MW-2	11/2/2023	45	1.47	76	1.33	90%	5.29	6.33	5.04	**5.6**	---	**4.9**	---	**1.2**	**5.4** **3.4**	**1.6**	---
MW-5	---[a]	---	---	---	---	---	---	---	---	---	---	0.16	---	---	0.35 0.21	0.16	0.3
MW-10	12/20/2023	15.0	1.8	2838.0	1.2	69%	0.1	0.2	0.1	0.1	---	---	---	0.03	---	---	---
MW-12	---[a]	---	---	---	---	---	---	---	---	---	---	**1.3**	---	---	0.043 **1.4**	---	---
MW-19	11/3/2023	8	1.01	119	0.41	41%	0.81	1.09	1.06	**1.0**	---	0.22	---	0.15	0.0053 **3.5**	0.013	---
MW-20	11/2/2023	17	3.74	1067	2.48	66%	0.27	0.25	0.25	0.3	---	0.64	---	**2.4**	**2.9** **1.7**	**3.0**	**2.8**
MW-21	---[a]	---	---	---	---	---	---	---	---	---	---	0.12	---	---	0.47 0.38	0.0047	---
MW-27	---[a]	---	---	---	---	---	---	---	---	---	**1.3**	**0.95**	0.43	**2.9**	0.57	**1.1**	---
MW-28	12/20/2023	34	1.52	1205	1.5	99%	**2.7**	**3.9**	**4.2**	**3.6**	**5.6**	0.27	**3.0**	**1.6**	**6.2** **3.3**	**4.6**	**5.9**
RW-1	12/20/2023	20	1.64	1149	1.52	93%	1.3	1.7	1.2	**1.4**	---	**1.0**	---	**1.2**	**1.7** **2.0**	**2.2**	**1.2**
RW-2	12/21/2023	19	1.41	245	1.35	96%	**3.8**	**5.8**	**5.6**	**5.1**	**10.8**	---	**6.8**	**4.4**	**8.1** **8.6**	**5.4**	**4.9**
RW-4	12/20/2023	17	1.54	354	1.38	90%	3.4	3.9	3.5	**3.6**	---	0.61	---	**3.6**	**3.1** **1.6**	**3.3**	**2.5**
RW-5	12/21/2023	10.0	0.5	54.0	0.6	118%	1.2	5.3	6.0	**1.2**[c]	---	---	---	---	**4.1**	---	---
TMW-2	12/20/2023	8.0	0.6	1472.0	0.5	86%	0.3	0.9	0.9	0.7	---	---	---	---	**1.9**	---	---

Notes:

[a]In accordance with the work plan, LNAPL baildown testing was not conducted.

[b]Reporting arithmetic mean in 2022 following technical guidance - previously reported geometric mean

[c]LNAPL Transmissivity results are based on Bouwer-Rice solution alone, as other models are not useful when removal period is not instantaenous, i.e., removal period > 100th of entire test duration (ASTM, 2013)

Acronyms and Abbreviations:

bold = values greater than the Interstate Technology & Regulatory Commission (ITRC [2009]) recommended threshold for practical recoverability of LNAPL (0.8 ft^2/day)

ft^2/day = square foot (feet) per day

LNAPL = light nonaqueous phase liquid

--- = data not available

% = percent

References

ASTM, 2013. E2856 – 13: Standard Guide for Estimation of LNAPL Transmissivity. ASTM Committee E50 on Environmental Assessment, Risk Management and Corrective Action. April 1.

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Table 2
Bioventing Emissions Summary
Former Eunice South Gas Plant
Eunice, Lea County, New Mexico

Well ID	Date	Flow Rate	Temperature	CH_4					CO_2					Total Hydrocarbon Depletion Rate
				Field-Measured Concentration	Molecular Weight	Potential Emission Rate		Rate of Hydrocarbon Depletion	Concentration	Molecular Weight	Potential Emission Rate		Rate of Hydrocarbon Depletion	
		acfm	°F	ppmv	g/mol	lb/hr	tpy	gal-LNAPL/day	ppmv	g/mol	lb/hr	tpy	gal-LNAPL/day	gal-LNAPL/day
RW-2	5/22/2017	1.30	100.0	300,000	16.04	0.81	3.54	1.29	127,000	44.01	0.94	4.12	0.55	1.84
	5/23/2017	1.30	100.0	45,000	16.04	0.12	0.53	0.19	94,000	44.01	0.70	3.05	0.41	0.60
	5/25/2017	1.10	100.0	0	16.04	0.00	0.00	0.00	82,000	44.01	0.51	2.25	0.30	0.30
	7/11/2017	1.30	100.0	15,000	16.04	0.04	0.18	0.06	19,000	44.01	0.14	0.62	0.08	0.15
	7/31/2017	1.05	100.0	45,000	16.04	0.10	0.43	0.16	30,000	44.01	0.18	0.79	0.10	0.26
	8/31/2017	0.98	67.8	1,000,000	16.04	2.16	9.45	3.44	460,000	44.01	2.72	11.92	1.59	5.03
	10/31/2017	1.26	51.6	55,000	16.04	0.16	0.69	0.25	146,000	44.01	1.15	5.02	0.67	0.92
	2/12/2018	0.91	37.4	50,000	16.04	0.11	0.47	0.17	133,000	44.01	0.78	3.40	0.45	0.62
	3/8/2018	0.14	51.6	45,000	16.04	0.01	0.06	0.02	136,000	44.01	0.12	0.52	0.07	0.09
	4/5/2018	1.05	53.4	0	16.04	0.00	0.00	0.00	23,000	44.01	0.15	0.66	0.09	0.09
	4/30/2018	0.98	64.2	30,000	16.04	0.07	0.29	0.10	154,000	44.01	0.92	4.02	0.53	0.64
	5/30/2018	1.12	53.6	0	16.04	0.00	0.00	0.00	127,000	44.01	0.88	3.87	0.51	0.51
	6/29/2018	1.05	66.0	30,000	16.04	0.07	0.30	0.11	151,000	44.01	0.96	4.21	0.56	0.67
	8/8/2018	0.98	66.0	0	16.04	0.00	0.00	0.00	73,000	44.01	0.43	1.90	0.25	0.25
	8/31/2018	1.05	67.8	31,000	16.04	0.07	0.31	0.11	209,000	44.01	1.33	5.80	0.77	0.89
	10/1/2018	0.84	69.6	33,000	16.04	0.06	0.27	0.10	1,000	44.01	0.01	0.02	0.00	0.10
	11/1/2018	0.42	49.8	10,260	16.04	0.01	0.04	0.02	0	44.01	0.00	0.00	0.00	0.02
	12/3/2018	0.01	44.4	5,744	16.04	0.00	0.00	0.00	230	44.01	0.00	0.00	0.00	0.00
	12/28/2018	0.00	29.8	--	--	--	--	--	0	44.01	0.00	0.00	0.00	0.00
	4/30/2019	1.02	51.8	--	--	--	--	--	270,000	44.01	1.71	7.47	0.99	0.99
	5/30/2019	1.05	62.0	42,500	16.04	0.10	0.43	0.16	80,000	44.01	0.51	2.25	0.30	0.46
	6/28/2019	1.02	69.6	--	--	--	--	--	10,000	44.01	0.06	0.27	0.04	0.04
	7/31/2019	0.98	64.2	50,000	16.04	0.11	0.48	0.17	200,000	44.01	1.19	5.22	0.69	0.87
	8/29/2019	1.05	64.2	50,000	16.04	0.12	0.51	0.19	220,000	44.01	1.40	6.15	0.82	1.00
	10/10/2019	0.98	42.6	--	--	--	--	--	650,000	44.01	4.04	17.69	2.35	2.35
	12/30/2019	0.98	44.4	810,000	16.04	2.08	9.09	3.31	460,000	44.01	3.23	14.16	1.89	5.20
	2/28/2020	0.98	43.1	--	--	--	--	--	0	44.01	0.00	0.00	0.00	0.00
	4/2/2020	0.91	51.6	990,000	16.04	2.32	10.17	3.71	18	44.01	0.00	0.00	0.00	3.71
	4/30/2020	0.25	46.9	990,000	16.04	0.63	2.76	1.01	49	44.01	0.00	0.00	0.00	1.01
	6/30/2020	0.84	62.4	--	--	--	--	--	0	44.01	0.00	0.00	0.00	0.00
	7/29/2020	0.77	60.0	--	--	--	--	--	1,000,000	44.01	5.36	23.48	3.12	3.12
	8/28/2020	0.63	59.3	--	--	--	--	--	40,000	44.01	0.18	0.77	0.10	0.10
	9/28/2020	1.05	40.6	--	--	--	--	--	410,000	44.01	3.11	13.63	1.81	1.81
	3/30/2021	0.53	83.4	--	--	--	--	--	10,000	44.01	0.03	0.13	0.02	0.02
	6/30/2022	0.50	62.2	17,000	16.04	0.02	0.08	0.03	3,000	44.01	0.01	0.04	0.01	0.04
	9/30/2022	0.70	55.2	542,000	16.04	0.86	3.75	1.37	101,000	44.01	0.44	1.92	0.25	1.62
	12/30/2022	0.80	44.6	800,000	16.04	1.47	6.45	2.35	95,000	44.01	0.48	2.10	0.28	2.63
	3/22/2023	1.00	51.6	822,000	16.04	1.87	8.17	2.98	91,000	44.01	0.57	2.48	0.33	3.31
	6/29/2023	0.40	58.2	0	16.04	0.00	0.00	0.00	88,000	44.01	0.22	0.95	0.13	0.13
	9/28/2023	0.10	60.6	831,000	16.04	0.19	0.81	0.30	108,000	44.01	0.07	0.29	0.04	0.33
	12/19/2023	0.00	49.8	815,000	16.04	0.07	0.29	0.10	122,000	44.01	0.03	0.13	0.02	0.12
MW-27	7/29/2020	0.77	61.1	--	--	--	--	--	250,000	44.01	1.34	5.87	0.78	0.78
	8/28/2020	1.03	60.4	--	--	--	--	--	160,000	44.01	1.15	5.03	0.67	0.67
	3/30/2021	0.91	98.6	--	--	--	--	--	40,000	44.01	0.21	0.91	0.12	0.12
	6/29/2021	1.02	63.5	--	--	--	--	--	499	44.01	0.00	0.01	0.00	0.00
	9/28/2021	0.98	61.1	--	--	--	--	--	1,200,000	44.01	7.19	31.50	4.19	4.19
	12/15/2021	0.91	46.2	--	--	--	--	--	0	44.01	0.00	0.00	0.00	0.00
	3/30/2022	0.90	46.3	13,000	16.04	0.03	0.12	0.04	1,000	44.01	0.01	0.02	0.00	0.05
	6/30/2022	0.90	64.2	628,000	16.04	1.25	5.49	2.00	2,000	44.01	0.01	0.05	0.01	2.01
	9/30/2022	0.10	55.2	260,000	16.04	0.06	0.26	0.09	3,000	44.01	0.00	0.01	0.00	0.09
	12/30/2022	0.90	44.7	924,000	16.04	1.91	8.38	3.05	14,000	44.01	0.08	0.35	0.05	3.10
	3/22/2023	0.70	50.9	902,000	16.04	1.44	6.29	2.29	10,000	44.01	0.04	0.19	0.03	2.32
	6/29/2023	0.30	56.4	811,000	16.04	0.55	2.40	0.87	0	44.01	0.00	0.00	0.00	0.87
	9/28/2023	0.10	60.6	819,000	16.04	0.18	0.80	0.29	1,000	44.01	0.00	0.00	0.00	0.29
	12/19/2023	0.80	51.6	835,000	16.04	1.52	6.64	2.42	3,000	44.01	0.01	0.07	0.01	2.43

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		acfm	°F	ppmv	g/mol	lb/hr	tpy	gal-LNAPL/day	ppmv	g/mol	lb/hr	tpy	gal-LNAPL/day	gal-LNAPL/day
MW-28	5/22/2017	1.30	100.0	325,000	16.04	0.88	3.84	1.40	43,000	44.01	0.32	1.39	0.19	1.58
	5/23/2017	1.20	100.0	75,000	16.04	0.19	0.82	0.30	16,000	44.01	0.11	0.48	0.06	0.36
	7/11/2017	1.00	100.0	30,000	16.04	0.06	0.27	0.10	1,000	44.01	0.01	0.02	0.00	0.10
	8/31/2017	1.05	66.0	710,000	16.04	1.65	7.21	2.63	120,000	44.01	0.76	3.34	0.45	3.07
	10/31/2017	1.12	48.0	0	16.04	0.00	0.00	0.00	9,000	44.01	0.06	0.28	0.04	0.04
	2/12/2018	1.05	33.8	5,000	16.04	0.01	0.05	0.02	0	44.01	0.00	0.00	0.00	0.02
	3/8/2018	0.98	48.0	0	16.04	0.00	0.00	0.00	130,000	44.01	0.80	3.50	0.47	0.47
	4/5/2018	0.98	57.0	0	16.04	0.00	0.00	0.00	10,000	44.01	0.06	0.26	0.04	0.04
	4/30/2018	0.91	66.0	15,000	16.04	0.03	0.13	0.05	7,000	44.01	0.04	0.17	0.02	0.07
	5/30/2018	1.05	55.0	45,000	16.04	0.11	0.47	0.17	67,000	44.01	0.44	1.91	0.25	0.42
	6/29/2018	0.98	66.0	10,000	16.04	0.02	0.09	0.03	12,000	44.01	0.07	0.31	0.04	0.08
	8/8/2018	0.98	66.0	0	16.04	0.00	0.00	0.00	17,000	44.01	0.10	0.44	0.06	0.06
	8/31/2018	1.05	67.8	10,000	16.04	0.02	0.10	0.04	14,000	44.01	0.09	0.39	0.05	0.09
	10/1/2018	1.12	67.8	13,000	16.04	0.03	0.14	0.05	0	44.01	0.00	0.00	0.00	0.05
	11/1/2018	2.80	51.6	1,922	16.04	0.01	0.05	0.02	80,000	44.01	1.40	6.11	0.81	0.83
	12/3/2018	0.98	45.6	4,901	16.04	0.01	0.05	0.02	120	44.01	0.00	0.00	0.00	0.02
	12/28/2018	0.98	30.5	--	--	--	--	--	0	44.01	0.00	0.00	0.00	0.00
	4/30/2019	1.05	73.2	--	--	--	--	--	80,000	44.01	0.50	2.20	0.29	0.29
	5/28/2019	1.12	62.4	50,000	16.04	0.12	0.55	0.20	0	44.01	0.00	0.00	0.00	0.20
	6/28/2019	1.12	67.1	--	--	--	--	--	440,000	44.01	2.98	13.05	1.74	1.74
	7/31/2019	1.12	66.0	50,000	16.04	0.12	0.54	0.20	590,000	44.01	4.00	17.54	2.33	2.53
	8/29/2019	1.33	56.0	50,000	16.04	0.15	0.66	0.24	520,000	44.01	4.27	18.71	2.49	2.73
	10/10/2019	1.12	43.8	--	--	--	--	--	350,000	44.01	2.48	10.86	1.45	1.45
	12/30/2019	0.63	44.4	850,000	16.04	1.40	6.13	2.23	2,500,000	44.01	11.30	49.48	6.59	8.82
	2/28/2020	0.84	43.7	50,000	16.04	0.11	0.48	0.18	0	44.01	0.00	0.00	0.00	0.18
	4/2/2020	0.42	55.2	990,000	16.04	1.06	4.66	1.70	--	--	--	--	--	1.70
	4/30/2020	0.26	52.5	990,000	16.04	0.67	2.93	1.07	--	--	--	--	--	1.07
	6/30/2020	0.77	62.4	--	--	--	--	--	10,000	44.01	0.05	0.23	0.03	0.03
	7/29/2020	0.91	62.7	--	--	--	--	--	1,000,000	44.01	6.30	27.59	3.67	3.67
	8/28/2020	0.91	60.2	--	--	--	--	--	80,000	44.01	0.51	2.22	0.30	0.30
	9/28/2020	0.98	43.3	--	--	--	--	--	20,000	44.01	0.14	0.62	0.08	0.08
	3/30/2021	0.88	106.5	--	--	--	--	--	60,000	44.01	0.30	1.29	0.17	0.17
	6/29/2021	0.91	69.6	--	--	--	--	--	499	44.01	0.00	0.01	0.00	0.00
	9/28/2021	0.88	60.0	--	--	--	--	--	489,000	44.01	2.62	11.49	1.53	1.53
	3/30/2022	1.00	42.6	855,000	16.04	1.98	8.66	3.15	60,000	44.01	0.38	1.67	0.22	3.38
	6/30/2022	0.10	60.6	88,000	16.04	0.02	0.09	0.03	0	44.01	0.00	0.00	0.00	0.03
	10/14/2022	0.90	58.8	0	16.04	0.00	0.00	0.00	56,000	44.01	0.31	1.36	0.18	0.18
	12/30/2022	1.00	44.4	830,000	16.04	1.91	8.37	3.05	54,000	44.01	0.34	1.49	0.20	3.25
	3/22/2023	0.90	49.6	840,000	16.04	1.72	7.55	2.75	34,000	44.01	0.19	0.84	0.11	2.86
	6/29/2023	0.20	61.3	0	16.04	0.00	0.00	0.00	31,000	44.01	0.04	0.17	0.02	0.02
	9/28/2023	0.80	60.0	3,000	16.04	0.01	0.02	0.01	0	44.01	0.00	0.00	0.00	0.01
	12/19/2023	0.70	49.8	839,000	16.04	1.34	5.86	2.14	42,000	44.01	0.18	0.81	0.11	2.24

Notes:
-- = Data was not collected
acfm = actual cubic-foot per meter
CH_4 = methane
CO_2 = carbon dioxide
°F = degrees Fahrenheit
gal-LNAPL/day = gallons of light non-aqueous phase liquid per day
g/mol = grams per mole
ppmv = parts per million by volume
tpy = tons per year

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

CONDITIONS

Action 323116

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 323116
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2023 GW Annual Report for the Former Eunice South Gas Plant: Content Satisfactory 1. Accepted for the record 2. Continue plans for abatement to convey system to GWTP for the Former Eunice South Gas Plant plume as specified in the ST2 AP for the North site. 3. Submit the 2024 Annual GW Report by April 2025.	4/30/2024