REVIEWED

By Mike Buchanan at 11:40 am, Apr 23, 2024

February 27,

2024

2023 Fourth Quarter (4th) Groundwater Monitoring Report (October - December) DKL Energy - Cottonwood Facility (2RF-128) OGRID: 330291 (Formally 3 Bear Energy, LLC) **Eddy County, New Mexico**

Review of the Fourth Quarter Groundwater Monitoring Report for the Cottonwood Facility (2RF-128): Content Satisfactory

- 1. Continue to conduct quarterly groundwater monitoring.
- 2. Consider preparing a contingency plan for monitoring wells that remain dry; for example, going out thirty (30) days after sampling event to check for sufficient water volume, or drilling the wells to a deeper extent.
- 3. Submit the next annual report to NMOCD by April 1, 2025.

Prepared for:



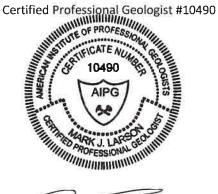
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22-0135-01

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1.0 EXECUTIVE SUMMARY

Larson & Associates, Inc. (LAI) has prepared this report on behalf of DKL Energy (DKL) for submittal to the New Mexico Oil Conservation Division (NMOCD) District 2 in Artesia and Santa Fe, New Mexico. The report presents the results of the 2023 fourth (4th) quarter (October - December) groundwater monitoring performed on December 18, 2023, at the Cottonwood Facility (Site). The Site is a produced water recycling facility permitted by the NMOCD (2RF-128) that was previously operated by 3 Bear Energy, LLC (3 Bear), until June 1, 2022, when DKL acquired operations. The Site is located in Unit N (SE/4, SW/4), Section 20, Township 26 South, and Range 26 East in Eddy County, New Mexico. The geodetic position is North 32.02104° and West -104.31879°. The surface and mineral owner is the U.S. Government administered by the Bureau of Land Management (BLM).

The following activities occurred on December 18, 2023:

- Gauged four (4) monitoring wells (MW-1 through MW-4) for light non-aqueous phase liquid (LNAPL) and depth to groundwater.
- Collected groundwater samples from four (4) wells (MW-1, MW-2, MW-3, and MW-4).
- Analyzed samples for benzene, toluene, ethylbenzene, xylenes (BTEX) and total petroleum hydrocarbons (TPH) by EPA SW-846 Methods 8021B and 8015, respectively, and chloride by EPA Method 300.0.

The following observations are documented in this report:

- Depth to groundwater ranged from 28.30 feet below ground surface (bgs) at MW-1 to 67.23 feet bgs at MW-4.
- Depth to groundwater increased (falling head) in wells MW-1 (0.07 feet) and MW-2 (0.05 feet) from the previous monitoring event on September 12, 2023.
- Depth to groundwater decreased (rising head) in wells MW-3 (1.68 feet) and MW-4 (0.06 feet) from the previous monitoring event on September 12, 2023.
- The groundwater potentiometric surface elevation ranged from 3,431.99 feet above mean sea level (MSL) at well MW-1 (up gradient) to 3,388.83 feet above MSL at MW-4 (cross gradient and down gradient).
- The rising and lowering groundwater conditions are likely result of seasonal fluctuations in the aquifer.
- An apparent groundwater divide occurs in the area between monitoring wells MW-1 and MW-3 that causes groundwater to flow to the northeast towards well MW-2, east towards MW-3, and southeast towards well MW-4 at gradients between 0.029 and 0.192 feet per foot (ft/ft).
- No significant change in the groundwater flow direction, or gradient was observed during the fourth quarter 2023 groundwater monitoring event.
- BTEX and TPH were below the analytical method reporting limit (RL) in samples from all monitoring wells.
- Monitoring well MW-2 contained insufficient water to collect samples for TPH.
- Chloride exceeded the NMWQCC domestic water quality standard of 250 mg/L in the groundwater sample MW-4 (20,200 mg/L) and is consistent with the previous monitoring events.

- The Site does not appear to be the source for the chloride reported in samples from monitoring well MW-4 based on the initial laboratory results from the groundwater samples collected on January 29, 2019.
- DKL routinely monitors the leak detection system and has found no fluid to indicate a leak from the pond.

DKL will continue to monitor the leak detection system, as required by the permit conditions, and immediately report any changes to the NMOCD. DKL will also continue monitoring groundwater on a quarterly (4 times per year) schedule. Notification will be provided to the NMOCD at least 7 working days prior to each monitoring event, and as soon as possible upon any significant change in analyte concentrations.

2.0 INTRODUCTION

LAI has prepared this report on behalf DKL for submittal to the NMOCD District 2 in Artesia and Santa Fe, New Mexico. The report presents the results of the 2023 fourth (4th) quarter (October - December) groundwater monitoring at the Cottonwood Facility (Site) performed on December 18, 2023. Notification of the groundwater sampling event was submitted to the NMOCD on December 11, 2023. A follow up email was received from Nelson Velez on December 11, 2023, stating that "Since this is a groundwater release, OCD recommends placing within the data entry box "...Please provide any information necessary for observers to contact samples", the wording "Groundwater abatement per 19.15.30.14B NMAC". Please note that groundwater sampling notification required 4 working days per the aforementioned provision. A follow up email was sent to Nelson Velez on December 11, 2023, stating "In the case of Delek – Cottonwood Facility (2RF-12), a recycling facility, how would Delek submit the groundwater sampling notification on the portal as there is no incident number for this Site?". Appendix A presents NMOCD communications.

2.1 Background

The Site is a produced water recycling facility permitted by the NMOCD (2RF-128) that was owned and operated by 3 Bear Energy LLC, until June 1, 2022, when DKL acquired operations. The Site is located in Unit N (SE 1/4, SW 1/4), Section 20, Township 26 South, and Range 26 East, in Eddy County, New Mexico. The surface and mineral owner is the U.S. Government administered by the Bureau of Land Management (BLM). The geodetic position is North 32.02104° and West -104.31879°. Figure 1 presents a location and topographic map. Figure 2 presents an aerial map.

3.0 DEPTH TO GROUNDWATER AND GROUNDWATER ELEVATION

On December 18, 2023, LAI personnel gauged monitoring wells MW-1 through MW-4 for LNAPL and depth to groundwater. LNAPL was not present in the monitoring wells. Groundwater was gauged at 31.06 (MW-1), 56.89 (MW-2), 47.29 (MW-3) and 70.21 (MW-4) feet below top of casing (TOC). Depth to groundwater decreased (rising conditions) in monitoring wells MW-3 (1.68 feet) and MW-4 (0.06 feet) and increased (falling conditions) in MW-1 (0.07 feet) and MW-2 (0.05 feet) compared to the previous monitoring period on September 18, 2023. The rising and lowering groundwater conditions are likely the result of seasonal fluctuation in the aquifer.

The groundwater potentiometric surface elevation ranged from 3,431.99 feet above mean sea level (MSL) at well MW-1 (upgradient) to 3,388.33 feet above MSL at MW-4 (cross and down gradient). An apparent groundwater divide causes groundwater to flow to the northeast and east towards wells MW-2 and MW-3, respectively, and southeast towards well MW-4 at gradients between 0.029 and 0.192 ft/ft. No significant change in the groundwater flow direction or gradient was observed on December 18, 2023.

The groundwater potentiometric surface in well MW-2 and MW-3 has steadily declined over time from 3,415.74 to 3,401.37 feet above MSL or approximately 14.37 feet in well MW-2 and 3,416.17 to 3,411.04 feet above MSL or approximately 5.13 feet in well MW-3, between December 12, 2018, and December

18, 2023. The decline is likely due to decreased aquifer recharge in the fractured bedrock. Table 1 presents the groundwater gauging summary. Figure 3 presents the groundwater potentiometric map for December 18, 2023. Appendix B presents a control chart for groundwater elevation over time.

4.0 GROUNDWATER SAMPLES AND ANALYSIS

On December 18, 2023, LAI personnel collected groundwater samples from monitoring wells MW-1, MW-2, MW-3, and MW-4. LAI was not able to collect the sample for TPH from monitoring well MW-2 due to insufficient water. A duplicate sample (MW-1) was collected for laboratory quality assurance and quality control (QA/QC). The samples from MW-1 were collected using the low stress or low flow method, according to EPA protocol (EQASOP-GW4, Revision 4, September 19, 2017). The low stress or low flow method where an environmental pump was submerged near the middle of the water column and the well was pumped at a low rate until environmental parameters stabilized. Groundwater samples were collected from the discharge of the dedicated disposable Tygon® tubing. The tubing was discarded after each use and the pump was thoroughly cleaned with a solution potable water and laboratory grade detergent (Alconox®) and rinsed with distilled water. Samples from MW-2 through MW-4 were collected using dedicated disposable polyethylene bailers that were discarded after each use.

The samples were carefully transferred to labeled laboratory containers and delivered under preservation and chain-of-custody to DHL Analytical, Inc. (DHL), a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory, located in Round Rock, Texas. DHL analyzed the samples BTEX according to EPA SW-846 Method 8021B, by EPA SW-846 Method 8015M, including gasoline range organics (C6 to C10), diesel range organics (>C10 to C28) and oil range organics (>C28 to C35), and chloride by EPA Method 300. Table 2 presents the laboratory analytical data summary. Appendix C presents the laboratory report.

4.1 Organic Analysis

BTEX and TPH concentrations were below the analytical method reporting limit (RL) in the groundwater samples from MW-1, MW-2, MW-3, and MW-4. Monitoring well MW-2 contained insufficient water for TPH analysis.

4.2 Inorganic Analysis

Chloride was reported above the NMWQCC domestic water quality standard of 250 mg/L in the groundwater sample from monitoring well MW-4 (20,200 mg/L) and is consistent with the previous and initial chloride concentration (22,300 mg/L) reported on January 29, 2019. DKL monitors the leak detection system and has not found any leaks in the system, therefore the source for the chloride is unknown. The QA/QC sample (Dup-1) from monitoring well MW-1 had a chloride concentration of 188 mg/L, and 0.53 percent difference of the original chloride value of 187 mg/L reported for MW-1. No data quality exceptions were noted in DHL case narratives. Figure 4 presents a chloride concentration in groundwater map on December 18, 2023.

On January 29, 2019, and May 15, 2019, the laboratory analyzed a precipitate layer that was observed in the groundwater samples from monitoring well MW-4. DHL analyzed the precipitate material and reported chloride at 87,700 mg/L and 25,900 mg/L, on January 29, 2019, and May 15, 2019, respectively. The precipitate is considered naturally occurring and is likely associated with evaporites (chloride) in the formation. Table 3 presents the precipitate sample analytical data summary.

5.0 CONCLUSIONS

The following observations are documented in this report:

- A hydrologic divide in the vicinity of monitoring well MW-1 causing groundwater to flow to the northeast, east and southeast at gradients between 0.029 and 0.192 ft/ft.
- No significant changes in the groundwater flow direction and gradient were observed on December 18, 2023.
- BTEX and TPH were below the laboratory method RLs in MW-1, MW-2, MW-3, and MW-4.
- MW-2 did not contain sufficient water to analyze TPH.
- Chloride was above the NMWQCC domestic water quality standard in the sample collected from MW-4 (20,200 mg/L).
- Rising and lowering groundwater conditions are likely the result of seasonal fluctuation in the aquifer.
- The Site does not appear to be the source for the chloride reported in samples from monitoring well MW-4 based on laboratory results that are consistent with the initial groundwater sample results on January 29, 2019.
- DKL continues to monitor the leak detection system and has found no leaks in the system.

6.0 RECOMMENDATIONS

DKL will continue quarterly (4 times per year) groundwater monitoring at the Site. LAI will gauge and sample monitoring wells in the following order: MW-2, MW-3, MW-1, and MW-4. Groundwater samples will be collected using the low stress or low flow method and dedicated Tygon® tubing. Wells demonstrating insufficient water volume will not be sampled. Notification will be provided to the NMOCD at least 4 working days prior to each monitoring event, and as soon as possible upon any significant change in analyte concentrations.

Tables

Table 1
Monitoring Well Completion and Gauging Summary
DKL Energy, Cottonwood Facilty
Eddy County, New Mexico

MW-1 Date Well Depth Greet TOC Depth Greet BGS Green Greet BGS Greet BGS Green Greet BGS Gree				We	ell Informat	ion					Grou	ndwater Inform	ation	
	Well	Date	Well Depth	Drilled	Well	Surface	Screen	Casing	TOC	Date	Depth to	Depth to	Water	Grounwater
MW-1 08/15/2018 92.40 89.40 2 3,460.29 74.40 89.40 2.76 3,463.05 69/25/2018 31.81 29.05 60.59 3,431.20 11/13/2018 31.60 28.93 60.71 3,431.20 11/13/2018 31.60 28.93 60.71 3,431.30 11/13/2018 31.60 28.93 60.71 3,431.30 11/13/2018 31.60 28.93 60.71 3,431.30 11/13/2018 31.60 28.93 60.71 3,431.30 11/13/2018 31.60 28.94 59.78 3,430.43 09/20/2019 32.60 29.86 59.78 3,430.43 09/20/2019 32.40 29.64 60.00 3,430.65 12/04/2019 31.73 28.97 60.67 3,431.32 09/20/2020 31.72 28.96 60.88 3,431.33 09/20/2020 31.82 29.06 60.58 3,431.20 09/20/2019 31.47 28.71 60.93 3,431.50 09/20/2013 31.45 28.69 60.95 3,431.60 09/20/2013 31.45 28.69 60.95 3,431.20 09/20/2012 31.45 28.69 60.95 3,431.20 09/20/2012 31.45 28.69 60.95 3,431.21 09/01/20/21 31.45 28.69 60.95 3,431.21 09/01/20/21 31.45 28.69 60.95 3,431.21 09/01/20/22 31.40 28.64 61.00 3,431.52 09/20/2022 30.74 27.98 61.66 3,432.31 11/13/2022 31.02 28.26 61.38 3,432.03 09/23/2022 30.74 27.98 61.66 3,432.31 09/23/2022 30.74 27.98 61.66 3,432.31 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.66 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2023 31.00 28.26 61.38 3,432.03 09/23/2022 30.74 27.98 61.66 3,432.31 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.74 27.96 61.99 3,432.63 09/23/2022 30.94 27.96 61.99 3,432.63 09/23/2022 30.94 27.96 61.99 3,432.63 09			(Feet TOC)	Depth	Diameter	Elevation	Interval	Stickup	Elevation	Gauged	Groundwater	Groundwater	Column	Elevation
11/13/2018 31.81 29.05 60.59 3,431.24 12/12/2018 31.69 28.93 60.71 3,431.34 12/12/2018 31.69 28.93 60.71 3,431.35 60.515/2019 32.50 29.74 59.90 3,430.55 60.59/12/2019 31.51 28.75 60.89 3,431.54 60.90/12/2019 31.51 28.75 60.89 3,431.54 60.90/12/2019 31.73 28.97 60.67 3,431.32 60.5112/04/2019 31.73 28.97 60.67 3,431.32 60.570/2020 31.50 29.44 60.90 3,431.55 60.59 60.67 3,431.32 60.570/2020 31.50 29.06 60.05 3,431.33 60.51 12/04/2019 31.73 28.96 60.68 3,431.33 60.51/2020 31.82 29.06 60.58 3,431.33 60.51 10/06/2020 31.89 29.13 60.51 3,431.65 60.625/2021 31.44 29.08 60.56 3,431.21 60.625/2021 31.45 28.69 60.95 3,431.60 60.625/2021 31.44 29.08 60.56 3,431.21 60.625/2021 31.44 29.08 60.56 3,431.21 60.625/2021 31.48 29.08 60.56 3,431.21 60.66/25/2021 31.48 29.08 60.56 3,431.21 60.66/25/2021 31.48 29.08 60.56 3,431.21 60.66/25/2021 31.48 29.08 60.56 3,431.21 60.66/25/2021 31.49 29.08 60.56 3,431.31 60.66/25/2021 31.49 29.08 60.56 3,431.31 60.66/25/2021 31.49 29.08 60.56 3,431.31 60.66/25/2021 31.49 29.08 60.56 3,431.31 60.66/25/2021 31.49 29.08 60.56 3,431.31 60.66/25/2021 31.49 29.08 60.56 3,431.31 60.66/25/2021 31.49 29.08 60.56 3,431.31 60.66/25/2021 31.49 29.08 60.56 3,431.31 60.66/25/2021 31.49 29.08 60.56 3,431.31 60.66/25/2021 31.49 29.08 60.56 3,431.31 60.66/25/2021 30.49 27.66 61.98 3,432.30 61.41 3,432.06 60.66/25/2023 30.42 27.66 61.98 3,432.30 61.41 3,432.06 60.66/25/2023 31.02 28.26 61.38 3,432.03 66/2023 31.02 28.26 61.38 3,432.03 66/2023 31.02 28.26 61.38 3,432.03 66/2023 31.02 28.26 61.38 3,432.03 66/2023 31.02 28.26 61.38 3,432.03 66/2023 31.02 28.26 61.38 3,432.03 66/2023 31.02 28.26 61.38 3,432.03 66/2023 31.02 28.26 61.38 3,432.03 66/2023 31.02 28.26 61.38 3,432.03 66/2023 31.02 28.26 61.38 3,432.03 66/2023 31.02 28.26 61.38 3,432.03 66/2023 31.02 28.26 61.38 3,432.03 66/2023 31.02 28.26 61.38 3,432.03 66/2023 31.02 28.26 61.38 3,432.03 66/2023 31.02 28.26 61.38 3,432.03 66/2023 31.02 28.26 61.38 3,432.03 66/2023 31.02 28.26 61.38 3,432.03 66/2023 60.66/2023 31.02 28.26 61.38 3,432.03 66/2023 60.66/2				(Feet BGS)	(Inches)	(Feet AMSL)	(Feet BGS)	(Feet)	(Feet AMSL)		(Feet TOC)	(Feet BGS)	(Feet)	(Feet AMSL)
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05/07/2020 31.72 28.96 60.68 3.431.33 3.431.200 31.82 29.06 60.58 3.431.33 3.431.200 31.82 29.06 60.58 3.431.33 10/06/2020 31.89 29.13 60.51 3.431.16 01/05/2021 31.47 28.71 60.93 3.431.58 04/29/2021 31.45 28.69 60.95 3.431.60 06/25/2021 31.84 29.08 60.56 3.431.21 09/01/2021 31.31 28.55 61.09 3.431.74 11/18/2021 31.48 28.72 60.92 3.431.57 11/18/2021 31.48 28.72 60.92 3.431.57 02/24/2022 31.40 28.64 61.00 3.431.65 05/19/2022 30.74 27.98 61.66 3.432.31 09/23/2022 31.02 28.26 61.38 3.432.03 12/13/2022 30.42 27.66 61.98 3.432.03 09/23/2022 31.02 28.26 61.38 3.432.03 09/23/2023 31.02 28.26 61.38 3.432.03 09/23/2023 31.02 28.26 61.38 3.432.03 09/23/2023 31.02 28.26 61.38 3.432.03 09/23/2023 31.02 28.26 61.38 3.432.03 09/23/2023 31.02 28.26 61.38 3.432.03 09/23/2023 31.02 28.26 61.38 3.432.03 09/23/2023 31.02 28.26 61.38 3.432.03 09/23/2023 31.02 28.26 61.38 3.432.03 09/23/2023 31.02 28.26 61.38 3.432.03 3.432.03 09/23/2023 31.02 28.26 61.38 3.432.03 09/23/2023 31.02 28.26 61.38 3.432.03 09/23/2023 31.02 28.26 61.38 3.432.03 09/23/2023 31.02 28.26 61.38 3.432.03 09/23/2023 31.02 28.26 61.38 3.432.03 09/23/2023 31.02 28.26 61.38 3.432.03 09/23/2023 31.02 3.02										/ /				
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MW-2 08/16/2018 58.7 61.70 2 3,455.22 40.70 - 55.70 3.04 3,458.26 09/25/2019 42.07 39.03 16.63 3,431.50 04/29/2019 42.07 39.03 16.63 3,431.74 09/29/2019 42.07 39.03 16.63 3,431.74 09/29/2019 42.07 39.03 16.63 3,431.74 04/31.74 09/29/2019 42.07 39.03 16.63 3,431.60 3,431.60 08/25/2021 31.45 28.69 60.95 3,431.61 06/25/2021 31.48 28.72 60.92 3,431.74 11/18/2021 31.48 28.72 60.92 3,431.65 05/19/2022 30.74 27.98 61.66 3,432.31 09/23/2022 31.02 28.26 61.38 3,432.03 12/13/2022 30.42 27.66 61.98 3,432.63 06/08/2023 31.02 28.26 61.38 3,432.03 09/12/2023 30.99 28.23 61.41 3,432.06 12/18/2023 31.06 28.30 61.34 3,431.99										01/05/2021	31 <i>4</i> 7	28 71	60 93	3 431 58
06/25/2021 31.84 29.08 60.56 3,431.21														
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MW-2 08/16/2018 58.7 61.70 2 3,455.22 40.70 - 55.70 3.04 3,458.26 09/29/2019 42.07 39.03 16.63 3,416.19														
MW-2 08/16/2018 58.7 61.70 2 3,455.22 40.70 - 55.70 3.04 3,458.26 01/29/2019 42.07 39.03 16.63 3,416.19 05/19/2022 30.74 27.98 61.66 3,432.31 28.26 61.38 3,432.03 31.02 28.26 61.38 3,432.03 31.02 28.26 61.38 3,432.03 03/16/2023 31.02 28.26 61.38 3,432.03 09/12/2023 30.99 28.23 61.41 3,432.06 12/18/2023 31.06 28.30 61.34 3,431.99														ŕ
MW-2 08/16/2018 58.7 61.70 2 3,455.22 40.70 - 55.70 3.04 3,458.26 09/25/2018 *										02/24/2022	31.40	28.64	61.00	3,431.65
MW-2 08/16/2018 58.7 61.70 2 3,455.22 40.70 - 55.70 3.04 3,458.26 09/25/2018 *										05/19/2022	30.74	27.98	61.66	3,432.31
MW-2 08/16/2018 58.7 61.70 2 3,455.22 40.70 - 55.70 3.04 3,458.26 09/25/2018 *										09/23/2022	31.02	28.26	61.38	3,432.03
MW-2 08/16/2018 58.7 61.70 2 3,455.22 40.70 - 55.70 3.04 3,458.26 09/25/2018 *										12/13/2022	30.42	27.66	61.98	3,432.63
MW-2 08/16/2018 58.7 61.70 2 3,455.22 40.70 - 55.70 3.04 3,458.26 09/25/2018 *														
MW-2 08/16/2018 58.7 61.70 2 3,455.22 40.70 - 55.70 3.04 3,458.26 09/25/2018 *														
MW-2 08/16/2018 58.7 61.70 2 3,455.22 40.70 - 55.70 3.04 3,458.26 09/25/2018 * 12/12/2018 42.52 39.48 16.18 3,415.74 01/29/2019 42.07 39.03 16.63 3,416.19														
MW-2 08/16/2018 58.7 61.70 2 3,455.22 40.70 - 55.70 3.04 3,458.26 09/25/2018 *														
11/13/2018 * 12/12/2018 42.52 39.48 16.18 3,415.74 01/29/2019 42.07 39.03 16.63 3,416.19										12/18/2023	31.06	28.30	61.34	3,431.99
11/13/2018 * 12/12/2018 42.52 39.48 16.18 3,415.74 01/29/2019 42.07 39.03 16.63 3,416.19	N/\\/-2	08/16/2019	52 7	61 70	2	3 455 22	40 70 - 55 70	3 04	3 458 26	09/25/2018 *				
12/12/2018 42.52 39.48 16.18 3,415.74 01/29/2019 42.07 39.03 16.63 3,416.19	IVIVV-Z	00/10/2018	30.7	01.70		3,433.22		3.04	3,430.20					
01/29/2019 42.07 39.03 16.63 3,416.19														3 415 74
										,,	12.32	33.40	10.10	5,115.74
										01/29/2019	42.07	39.03	16.63	3,416.19
										05/15/2019	42.70	39.66	16.00	3,415.56

Table 1
Monitoring Well Completion and Gauging Summary
DKL Energy, Cottonwood Facilty
Eddy County, New Mexico

			W	ell Informat	ion				Groundwater Information					
Well	Date	Well Depth	Drilled	Well	Surface	Screen	Casing	TOC	Date	Depth to	Depth to	Water	Grounwater	
		(Feet TOC)	Depth	Diameter	Elevation	Interval	Stickup	Elevation	Gauged	Groundwater	Groundwater	Column	Elevation	
			(Feet BGS)	(Inches)	(Feet AMSL)	(Feet BGS)	(Feet)	(Feet AMSL)		(Feet TOC)	(Feet BGS)	(Feet)	(Feet AMSL)	
									09/12/2019	43.98	40.94	14.72	3,414.28	
									09/20/2019	44.78	41.74	13.92	3,413.48	
									12/04/2019	45.01	41.97	13.69	3,413.25	
									02/18/2020	45.10	42.06	13.60	3,413.16	
									05/07/2020	49.30	46.26	9.40	3,408.96	
									08/13/2020	51.69	48.65	7.01	3,406.57	
									10/06/2020	52.00	48.96	6.70	3,406.26	
									01/05/2021	52.21	49.17	6.49	3,406.05	
									04/29/2021	54.75	51.71	3.95	3,403.51	
									09/01/2021	56.93	53.89	1.77	3,401.33	
									11/18/2021	57.94	54.90	0.76	3,400.32	
									02/24/2022	56.88	53.84	1.82	3,401.38	
									05/19/2022	56.93	53.89	1.77	3,401.33	
									09/23/2022	56.44	53.40	2.26	3,401.82	
									12/13/2022	56.62	53.58	2.08	3,401.64	
									03/16/2023	56.32	53.28	2.38	3,401.94	
									06/08/2023	56.71	53.67	1.99	3,401.55	
									09/12/2023	56.84	53.80	1.86	3,401.42	
									12/18/2023	56.89	53.85	1.81	3,401.37	
MW-3	08/16/2018	52.9	49.90	2	3,455.52	34.90 - 49.90	3.00	3,458.33	09/25/2018	43.55	40.55	9.40	3,414.78	
									11/13/2018	42.65	39.65	10.25	3,415.68	
									12/12/2018	42.16	39.16	10.74	3,416.17	
									01/29/2019	41.85	38.85	11.05	3,416.48	
									05/15/2019	42.61	39.61	10.29	3,415.72	
									09/12/2019	44.3	41.30	8.60	3,414.03	
									09/20/2019	44.1	41.10	8.80	3,414.23	
									12/04/2019	44.83	41.83	8.07	3,413.50	
									02/18/2020	45.6	42.60	7.30	3,412.73	
									05/07/2020	45.68	42.68	7.22	3,412.65	
I									08/13/2020	45.64	42.64	7.26	3,412.69	

Table 1
Monitoring Well Completion and Gauging Summary
DKL Energy, Cottonwood Facilty
Eddy County, New Mexico

			We	ell Informat	ion				Groundwater Information					
Well	Date	Well Depth	Drilled	Well	Surface	Screen	Casing	тос	Date	Depth to	Depth to	Water	Grounwater	
		(Feet TOC)	Depth	Diameter	Elevation	Interval	Stickup	Elevation	Gauged	Groundwater	Groundwater	Column	Elevation	
			(Feet BGS)	(Inches)	(Feet AMSL)	(Feet BGS)	(Feet)	(Feet AMSL)		(Feet TOC)	(Feet BGS)	(Feet)	(Feet AMSL)	
									10/06/2020	46.19	43.19	6.71	3,412.14	
									01/05/2021	46.66	43.66	6.24	3,411.67	
									04/29/2021 *					
									09/01/2021	47.59	44.59	5.31	3,410.74	
									11/18/2021	46.98	43.98	5.92	3,411.35	
									02/24/2022	45.85	42.85	7.05	3,412.48	
									05/19/2022	47.88	44.88	5.02	3,410.45	
									09/23/2022	47.76	44.76	5.14	3,410.57	
									12/13/2022	46.51	43.51	6.39	3,411.82	
									02/16/2022	40.44	45 11	4.70	2 440 22	
									03/16/2023	48.11	45.11	4.79	3,410.22	
									06/08/2023 09/12/2023	46.45 48.97	43.45 45.97	6.45 3.93	3,411.88 3,409.36	
									12/18/2023	48.97 47.29	45.97 44.29	5.61	3,409.36 3,411.04	
									12/10/2023	47.29	44.29	5.01	3,411.04	
MW-4	08/14/2018	78.1	75.10	2	3,456.06	60.10 - 75.00	2.98	3,459.04	09/25/2018 *					
					ŕ			,	11/13/2018 *					
									12/12/2018	74.36	71.38	3.74	3,384.68	
									01/29/2019	71.34	68.36	6.76	3,387.70	
									05/15/2019	71.50	68.52	6.60	3,387.54	
									09/12/2019	67.38	64.40	10.72	3,391.66	
									09/20/2019	71.41	68.43	6.69	3,387.63	
									12/04/2019	66.31	63.33	11.79	3,392.73	
									02/18/2020	71.80	68.82	6.30	3,387.24	
									05/07/2020	72.20	69.22	5.90	3,386.84	
									08/13/2020	70.10	67.12	8.00	3,388.94	
									10/06/2020	68.09	65.11	10.01	3,390.95	
									04 /05 /0004	60.00	65.00	0.00	2 200 46	
									01/05/2021	68.88	65.90	9.22	3,390.16	
									04/29/2021	70.14	67.16	7.96	3,388.90	
									06/25/2021	69.92	66.94	8.18	3,389.12	
									09/01/2021	72.55	69.57	5.55	3,386.49	
									11/18/2021	71.61	68.63	6.49	3,387.43	

Table 1 Monitoring Well Completion and Gauging Summary DKL Energy, Cottonwood Facilty Eddy County, New Mexico

			We	ell Informat	ion					Grou	ndwater Inform	ation	
Well	Date	Well Depth	Drilled	Well	Surface	Screen	Casing	TOC	Date	Depth to	Depth to	Water	Grounwater
		(Feet TOC)	Depth	Diameter	Elevation	Interval	Stickup	Elevation	Gauged	Groundwater	Groundwater	Column	Elevation
			(Feet BGS)	(Inches)	(Feet AMSL)	(Feet BGS)	(Feet)	(Feet AMSL)		(Feet TOC)	(Feet BGS)	(Feet)	(Feet AMSL)
									02/24/2022	70.05	67.07	8.05	3,388.99
									05/19/2022	68.82	65.84	9.28	3,390.22
									09/23/2022	67.95	64.97	10.15	3,391.09
									12/13/2022	68.58	65.60	9.52	3,390.46
									03/16/2023	71.71	68.73	6.39	3,387.33
									06/08/2023	71.29	68.31	6.81	3,387.75
									09/12/2023	70.27	67.29	7.83	3,388.77
									12/18/2023	70.21	67.23	7.89	3,388.83

Notes: monitoring wells installed by Environ-Drill, Albuquerque, New Mexico with 2 inch schedule 40 PVC casing and screen

bgs - below ground surface

TOC - top of casing

AMSL - denotes elevation in feet above mean sea level

* - Well bore dry

Table 2
Groundwater Sample Organic and Inorganic Analytical Data Summary
DKL Energy, Cottonwood Facility
Eddy County, New Mexico

		Benzene	Ethylbenzene	Toluene	Xylenes	GRO	DRO	ORO	TPH	Chloride
Well	Collection Date	(mg/L)	(mg/L)	(mg/L)	(mg/L)	C6 - C10 (mg/L)	>C10 - C28 (mg/L)	>C28 - C35 (mg/L)	C6 - C35 (mg/L)	(mg/L)
NMWQC	C Standard:	*0.001	*0.75	*0.75	*0.62	(1116/ =/	(11167-)	(11167 =)	(1116/ =)	**250
MW-1	09/25/2018	<0.000800	<0.00200	<0.00200	<0.00200	<0.556	<0.556	<0.556	<0.556	210
	11/13/2018	0.00124	<0.00200	<0.00200	<0.00200	<0.527	<0.527	<0.527	<0.527	1,220
	12/12/2018	0.0013	<0.00200	<0.00200	<0.00200	<0.537	<0.537	<0.537	<0.537	677
	01/29/2019	0.00489	<0.00400	<0.00400	<0.00400	<0.0600	<0.0789	<0.0789	<0.2178	1,750
	05/15/2019	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	< 0.0749	<0.0749	<0.7498	214
	09/20/2019	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	< 0.0730	<0.0730	<0.206	248
	12/04/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0739	<0.0739	<0.2078	224
	02/18/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0772	<0.0772	<0.2144	214
	05/07/2020	<0.000800	<0.00200	< 0.00200	<0.00200	<0.0600	<0.0787	<0.0787	<0.2174	246
	08/13/2020	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	0.107	<0.0758	0.107	228
	10/06/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0782	<0.0782	<0.2164	218
	01/05/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0785	<0.0785	<0.2170	192
	04/29/2021	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	2.33	0.783	3.113	201
	06/25/2021					<0.0600	<0.0790	<0.0790	<0.218	
	09/01/2021	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.149	<0.149	<0.358	202
	11/18/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0836	<0.0836	<0.0836	182
	02/24/2022	<0.008000	<0.00200	<0.00200	<0.00200	<0.0600	<0.0789	<0.0789	<0.0789	228
	05/19/2022	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0787	<0.0787	<0.0787	194
	09/23/2022	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0742	<0.0742	<0.0742	195
	12/13/2022	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	0.184	<0.0988	0.184	196
	03/16/2023	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0778	<0.0778	<0.0778	275
	06/08/2023	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0748	<0.0748	<0.0748	180
	09/12/2023	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0760	<0.0760	<0.0760	183
	12/18/2023	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0759	<0.0759	<0.0759	187
MW-2	09/25/2018 ***									
	11/13/2018 ***									
	01/29/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0767	<0.0767	<0.0767	136
	05/15/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0744	<0.0744	<0.2088	106
	09/20/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0748	<0.0748	<0.2096	117
	12/04/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0751	<0.0751	<0.2102	105
	02/18/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0766	<0.0766	<0.2132	120
	05/07/2020	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0823	<0.0823	<0.2246	121

Table 2
Groundwater Sample Organic and Inorganic Analytical Data Summary
DKL Energy, Cottonwood Facility
Eddy County, New Mexico

		Benzene	Ethylbenzene	Toluene	Xylenes	GRO	DRO	ORO	TPH	Chloride
Well	Collection Date	(mg/L)	(mg/L)	(mg/L)	(mg/L)	C6 - C10	>C10 - C28	>C28 - C35	C6 - C35	(mg/L)
						(mg/L)	(mg/L)	(mg/L)	(mg/L)	
NMWQC	C Standard:	*0.001	*0.75	*0.75	*0.62					**250
	08/13/2020	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0841	<0.0841	<0.2282	124
	10/06/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0789	<0.0789	<0.2178	137
	01/05/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0874	<0.0874	<0.2348	130
	04/29/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0946	<0.0946	<0.24.92	132
	09/01/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.150	<0.150	<0.360	142
	11/18 &22/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.00600	1.07	<0.494	1.07	149
	02/24/2022 ***									
	05/19/2022 ***									
	09/23/2022 ***									
	12/13/2022 ***									
	03/16/2023	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0808	<0.0808	<0.0808	128
	06/08/2023 ***									128
	09/12/2023 ***	<0.000800	<0.00200	<0.00200	<0.00200					134
	12/18/2023 ***	<0.000800	<0.00200	<0.00200	<0.00200					133
MW-3	09/25/2018	<0.000800	<0.00200	<0.00200	<0.00200	<0.554	<0.554	<0.554	<0.554	101
10100-3	11/13/2018	<0.000800	<0.00200	<0.00200	<0.00200	<0.574	<0.574	<0.574	<0.574	103
	01/29/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0780	<0.0780	<0.0780	140
	05/15/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0758	<0.0758	<0.2116	121
	09/20/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0737	<0.0737	<0.2074	130
	12/04/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0757	<0.0757	<0.2104	111
	12/04/2015	10.000000	10.00200	10.00200	10.00200	10.0000	10.0732	10.0732	10.2104	
	02/18/2020	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0794	<0.0794	<0.2188	120
	05/07/2020	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0997	<0.0997	<0.2594	305
	08/13/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0822	<0.0822	<0.2244	125
	10/06/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0787	<0.0787	<0.2174	111
	01/05/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0858	<0.0858	<0.2316	112
	04/29/2021 ***									
	09/01/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.150	<0.150	<0.360	123
	11/18/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0878	<0.0878	<0.0878	120
	02/24/2022	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0783	<0.0783	<0.0783	147
	05/19/2022 ***									
	09/23/2022	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0880	<0.0880	<0.0880	146
	12/13/2022	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.104	<0.104	<0.104	169

Table 2
Groundwater Sample Organic and Inorganic Analytical Data Summary
DKL Energy, Cottonwood Facility
Eddy County, New Mexico

Well	Collection Date	Benzene	Ethylbenzene	Toluene	Xylenes	GRO C6 - C10	DRO >C10 - C28	ORO	TPH C6 - C35	Chloride
weii	Collection Date	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	>C10 - C28 (mg/L)	>C28 - C35 (mg/L)	(mg/L)	(mg/L)
NMWQC	C Standard:	*0.001	*0.75	*0.75	*0.62					**250
	03/16/2023 ***									
	06/08/2023	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0767	<0.0767	<0.0767	165
	09/12/2023 ***									
	12/18/2023	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0766	<0.0766	<0.0766	175
MW-4	09/25/2018 ***									
	11/13/2018 ***									
	01/29/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	0.216	<0.110	0.216	22,300
	05/15/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.762	<0.762	<0.2114	22,900
	09/20/2019	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.741	<0.741	<0.082	26,000
	12/04/2019	<0.00800	<0.00200	<0.00200	<0.00200	<0.600	<0.752	<0.752	<2.104	24,400
	02/18/2020	<0.00800	<0.0200	<0.0200	<0.0200	<0.600	<0.577	<0.577	<1.754	25,800
	05/07/2020	<0.00800	<0.0200	<0.0200	<0.0200	<0.600	<0.110	<0.110	<0.820	25,400
	08/13/2020	<0.00800	<0.00200	<0.00200	<0.00200	<0.600	0.137	<0.0566	0.137	19,800
	10/06/2020	<0.00800	<0.0200	<0.0200	<0.0200	<0.600	0.251	<0.0790	0.251	21,000
	., ,									,
	01/05/2021	<0.00800	<0.0200	<0.0200	<0.0200	<0.600	0.126	<0.0880	0.126	16,200
	04/29/2021	<0.00800	<0.0200	<0.0200	<0.0200	<0.600	0.377	<0.0906	0.377	16,100
	06/25/2021					<0.600	<0.0900	<0.0900	<0.2400	
	09/01/2021	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.149	<0.149	<0.358	23,600
	11/18/2021	<0.00800	<0.0200	<0.0200	<0.0200	<0.600	0.118	<0.0840	0.118	17,500
	02/24/2022	<0.00800	<0.0200	<0.0200	<0.0200	<0.0600	<0.0853	<0.0853	<0.0853	20,400
	05/19/2022	<0.00800	<0.0200	<0.0200	<0.0200	<0.6000	0.264	<0.0787	0.264	13,400
	09/23/2022	<0.00800	<0.0200	<0.0200	<0.0200	<0.0600	0.272	<0.0745	0.272	19,300
	12/13/2022	<0.00800	<0.0200	<0.0200	<0.0200	<0.600	<0.106	<0.106	<0.106	21,900
	03/16/2023	<0.00800	<0.0200	<0.0200	<0.0200	<0.600	0.167	<0.0935	0.167	23,600
	06/08/2023	<0.00800	<0.0200	<0.0200	<0.0200	<0.600	<0.0820	<0.0820	<0.600	15,500
	09/12/2023	<0.00800	<0.0200	<0.0200	<0.0200	<0.0600	0.144	<0.0820	0.144	17,800
	12/18/2023	<0.00800	<0.0200	<0.0200	<0.0200	<0.600	<0.746	<0.746	<0.746	20,200
	12, 10, 2020	1010000	1010200	10.0200	1010200	10.000	1017 10	1017 10	1017 10	20,200
					A/QC (Duplicate) Sar					
Dup-1 (MW-1)	02/18/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0802	<0.0802	<0.2204	210
Dup-1 (MW-1)	05/07/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0800	<0.0800	<0.2200	221
Dup-1 (MW-1)	08/13/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0747	<0.0747	<0.2094	213
Dup-1 (MW-1)	10/06/2020	<0.000800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0785	<0.0785	<0.2170	196
Dup-1 (MW-1)	01/05/2021	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0751	<0.0751	<0.2102	194

Table 2
Groundwater Sample Organic and Inorganic Analytical Data Summary
DKL Energy, Cottonwood Facility
Eddy County, New Mexico

		Benzene	Ethylbenzene	Toluene	Xylenes	GRO	DRO	ORO	TPH	Chloride
Well	Collection Date	(mg/L)	(mg/L)	(mg/L)	(mg/L)	C6 - C10	>C10 - C28	>C28 - C35	C6 - C35	(mg/L)
						(mg/L)	(mg/L)	(mg/L)	(mg/L)	
NMWQCC	Standard:	*0.001	*0.75	*0.75	*0.62					**250
Dup-1 (MW-1)	04/29/2021	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0918	<0.0918	<0.2436	199
Dup-1 (MW-1)	06/25/2021					<0.0600	<0.0775	<0.0775	<0.2150	
Dup-1 (MW-1)	09/01/2021	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.1490	<0.1490	<0.898	204
Dup-1 (MW-1)	11/18/2021	<0.00800	<0.00200	<0.00200	<0.00200	<0.00600	<0.0816	<0.0816	<0.0816	183
Dup-1 (MW-1)	02/24/2022	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0832	<0.0832	<0.0832	198
Dup-1 (MW-1)	05/19/2022	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0786	<0.0786	<0.0786	236
Dup-1 (MW-1)	09/23/2022	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0768	<0.0768	<0.0768	194
Dup-1 (MW-1)	12/13/2022	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	0.128	<0.0997	0.128	196
Dup-1 (MW-1)	03/20/2023	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0759	<0.0759	<0.0759	280
Dup-1 (MW-1)	06/08/2023	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0764	<0.0764	<0.0764	177
Dup-1 (MW-1)	09/12/2023	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0780	<0.0780	<0.0780	184
Dup-1 (MW-1)	12/18/2023	<0.00800	<0.00200	<0.00200	<0.00200	<0.0600	<0.0777	<0.0777	<0.0777	188

Notes: Analysis performed by DHL Analytical, Round Rock, Texas, by EPA SW-846 Method 8021B (BTEX), Method 8015M (TPH) and Method 300 (chloride)

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

⁻⁻ No data available

< - denotes concentration is less than analytical method reporting limit (RL).

^{* -} Human health standard

^{** -} Domestic water quality standard

^{*** -} Insufficient water for sample collection

 $[\]binom{1}{1}$ - resampled on June 25, 2021 due to sample being collected from polyethylene tubing.

Table 3 Groundwater Precipitate Sample Analytical Data Summary DKL Energy, LLC Cottonwood Facility Eddy County, New Mexico

Well No.	Collection	Barium	Calcium	Iron	Magnesium	Potassium	Sodium	Strontium
	Date	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-4	1/29/2019	<0.463	347	46.9	20,500	894	87,700	8.87
	5/15/2019		333		50,500	2,370	25,900	
Well No.	Collection	Bicarbonate	Carbonate	Hydroxide	Total			
	Date	mg/L	mg/L	mg/L	mg/L			
MW-4	1/29/2019							
	5/15/2019	5140	<	<	5140			
MW-2	5/15/2019	116	<	<	116			

Notes: Analysis performed by DHL Analytical, Round Rock, Texas, by EPA SW-846 Method 8021B (BTEX), Method 8015M (TPH) and Method 300 (chloride) Values reported in milligrams per liter (mg/L); equivalent to parts per million (ppm)

⁻⁻ No data available

< - indicates parameter concentration is less than method reporting limit (RL).

^{* -} Human health standard

^{** -} Domestic water quality standard

Figures

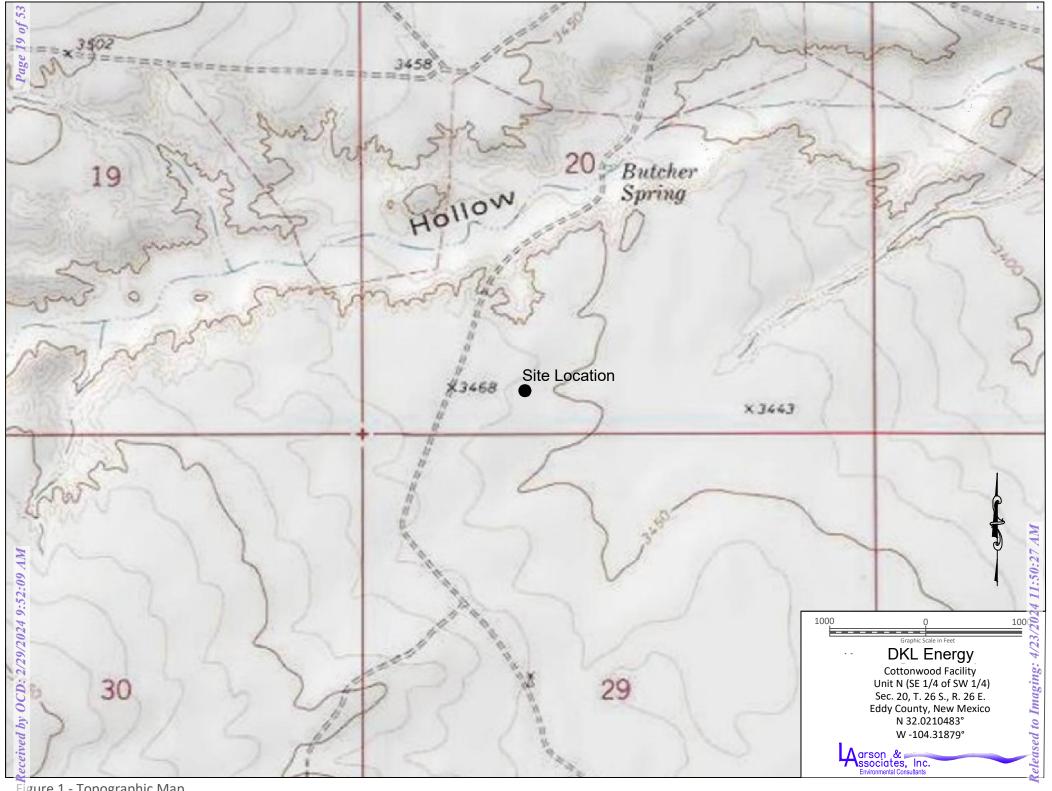


Figure 1 - Topographic Map

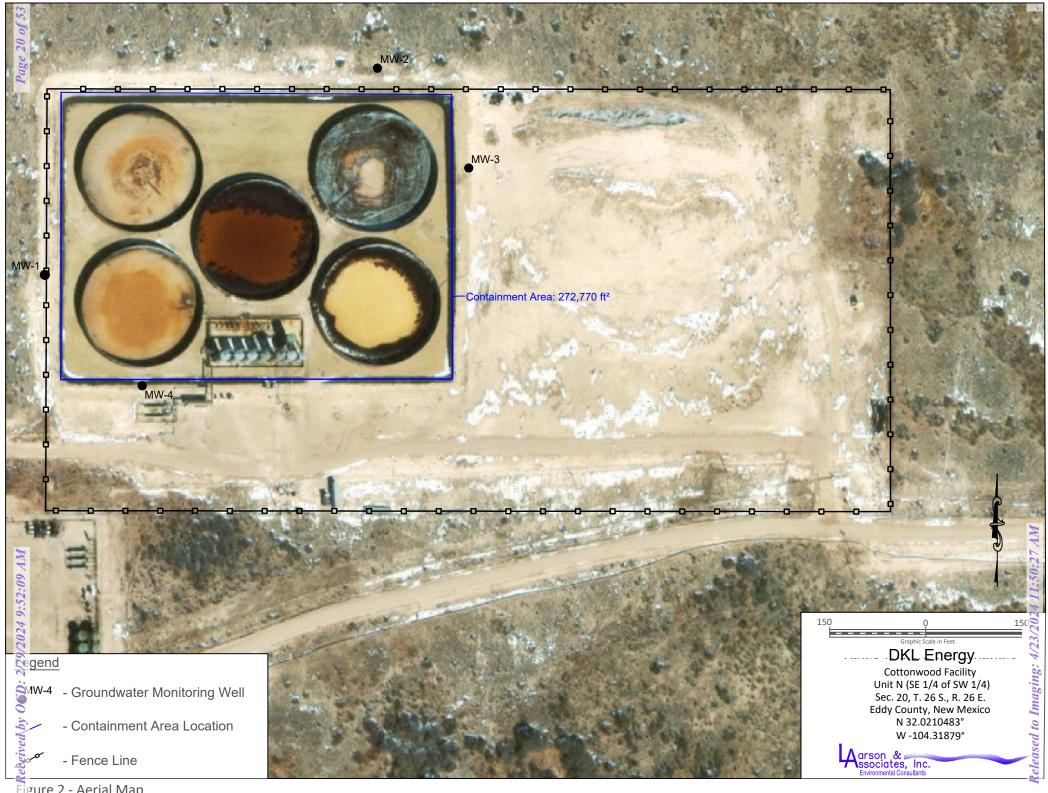


Figure 2 - Aerial Map

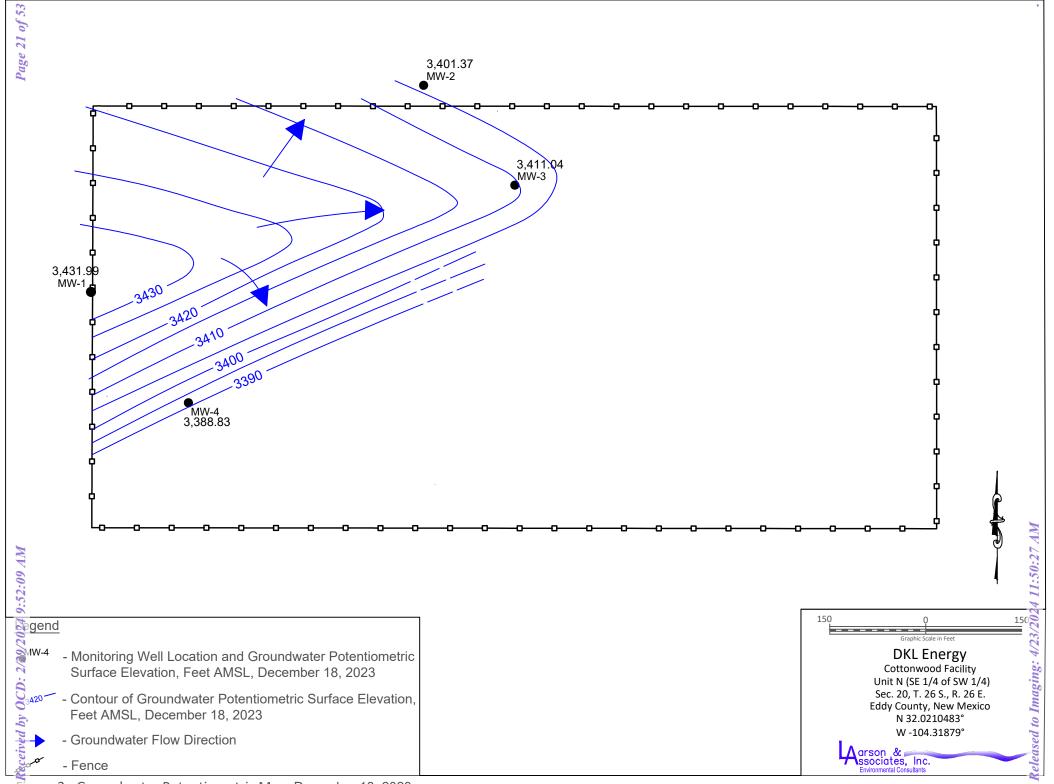


Figure 3 - Groundwater Potentiometric Map, December 18, 2023

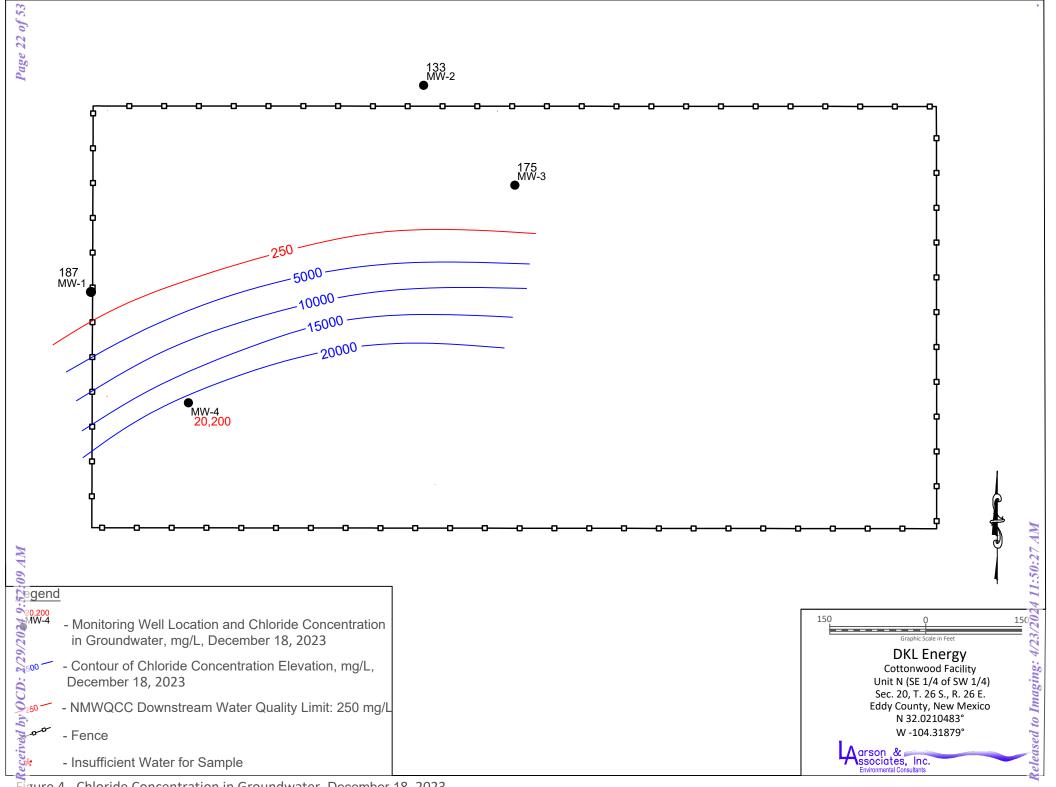


Figure 4 - Chloride Concentration in Groundwater, December 18, 2023

Appendix A

NMOCD Communications

Robert Nelson

From:

Robert Nelson

Sent:

Monday, December 11, 2023 4:27 PM

To:

Velez, Nelson, EMNRD

Cc:

Harry Lewis; James Young; Brian ODell; Mark Larson; Daniel St. Germain; Bratcher,

Michael, EMNRD

Subject:

RE: [EXTERNAL] Delek Logistics - Cottonwood Facility (2RF-128) Groundwater Sampling

Notice

Hello Nelson,

In the case of Delek – Cottonwood Facility (2RF-128), a recycling facility, how would Delek submit the groundwater sampling notification on the portal as there is no incident number for this Site?

Thank you,

Robert Nelson Project Manager Office – 432-687-0901 Cell – 432-664-4804

rnelson@laenvironmental.com



From: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

Sent: Monday, December 11, 2023 11:42 AM

To: Robert Nelson < rnelson@laenvironmental.com>

Cc: Harry Lewis < Harry.Lewis@deleklogistics.com>; James Young < James.Young@deleklogistics.com>; Brian ODell < Brian.ODell@deleklogistics.com>; Mark Larson < Mark@laenvironmental.com>; Daniel St. Germain < dstgermain@laenvironmental.com>; Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov> Subject: Re: [EXTERNAL] Delek Logistics - Cottonwood Facility (2RF-128) Groundwater Sampling Notice

Good morning Robert,

Thank you for the correspondence. I have attached the new procedures for submitting both liner inspection and confirmation sampling notifications. Please refer to pages 67-74 of the attached document for the sampling notification submittal procedures. It will walk you through the process. Notifications are required to be submitted from this point forward.

Since this is a groundwater release, OCD recommends placing within the data entry box "<u>Please provide any information necessary for observers to contact samplers</u>", the wording, "**Groundwater abatement per 19.15.30.14B NMAC**". Please note that groundwater sampling notification required 4 working days per the aforementioned provision.

You may also place any other pertinent information, such as **GPS coordinates** within the box "<u>Please</u> provide any information necessary for navigation to sampling site".

Thank you and have a great day!

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

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



From: Robert Nelson <melson@laenvironmental.com</pre>

Sent: Monday, December 11, 2023 9:04 AM

To: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

Cc: Harry Lewis Harry Lewis@deleklogistics.com; James Young@deleklogistics.com; Brian ODell

<Brian.ODell@deleklogIstics.com>; Mark Larson < Mark@laenvironmental.com>; Daniel St. Germain

<dstgermain@laenvironmental.com>

Subject: [EXTERNAL] Delek Logistics - Cottonwood Facility (2RF-128) Groundwater Sampling Notice

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

Hello Mr. Velez,

This message is submitted to the New Mexico Oil Conservation Division (OCD) on behalf of Delek Logistics Companies (Delek) to provide notification that personnel from Larson & Associates, Inc. (LAI) will be at the Cottonwood Facility (2RF-128) on December 18, 2023 at approximately 10:00am MST for the purpose of collecting groundwater samples from four (4) monitoring wells. Please feel free to contact Harry Lewis with Delek at (469)704-7379 or Harry-Lewis@deleklogistics.com, Mark Larson at (432)687-0901 or <a href="mainto-main

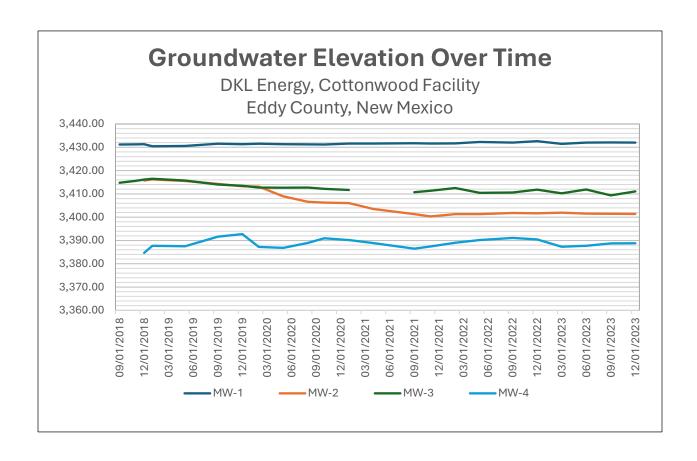
Thank you,

Robert Nelson
Project Manager
Office – 432-687-0901
Cell – 432-664-4804
rnelson@laenvironmental.com



Appendix B

Groundwater Elevation of Time Control Chart



Appendix C

Laboratory Report



December 29, 2023

Mark Larson

Larson & Associates 507 N. Marienfeld #205

Midland, TX 79701

TEL: (432) 687-0901

FAX: (432) 687-0456 Order No.: 2312224

RE: Eddy Co. NM/Cottonwood

Dear Mark Larson:

DHL Analytical, Inc. received 5 sample(s) on 12/21/2023 for the analyses presented in the following report.

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

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

Sincerely,

John DuPont

General Manager

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



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CaseNarrative 2312224	6
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AnalyticalDatesReport 2312224	9
Analytical Report 2312224	10
AnalyticalQCSummaryReport 2312224	

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Data Reported to: 507 N. Marienfeld, Ste. 202 Midland, TX 79701 432-687,0901 Lanson Toket Nalson Lanson Toket Nalson										DATE: 12-19-2023 PAGE 1 OF 1 PO#: LAB WORK ORDER#: 2312224																			
										F	PO#: LAB WORK ORDER#: 2312224 PROJECT LOCATION OR NAME: Eddy Co, NM/Cotton Wood LAI PROJECT #: 22-0135-01 COLLECTOR: M L										<u>sd</u> _								
TRRP report?	PRESERVATION																7												
TIME ZONE: Time zone/State:	E: ate:						Matrix # HCI HNO ₃ H SO ₄ □ NaOH □ UNPRESSERVED UNPRESSERVED															12:09 A M							
Mtn / N M Field Sample I.D.	Lab#	Date	Time	Matrix	# of Containers	HCI		10E	UNPRESSERVED	ANA																	FIELD	NOTES	
MW-I	01	12/19/23	11:18	W	9	X		X		X	X	X	X					T		T				X					
MW-2	02		10 37	3	4	X		X		X									T			T		X					
Mw-3	03		10:11	W	9	X		X		X	\nearrow	X	X										l .	X					
MW-4	04		12:14	7	9	X		X		X	X	\mathbb{X}	X											X					
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TOTAL					40															T									\neg
RECEIVED BY: (Signature) 12/19/2023 RECEIVED BY: (Signature) TURN AROUND TIME LABORATORY USE ONLY:										\exists																			
RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY:(Signature)										- 1	NORMAL X 1 DAY □				- 1											_			
· \										JSTODY SEALS - □ BROKEN INTACT □ NOT USED CARRIER BILL # TOOK																			
LABORATORY:																													

ORIGIN ID:MAFA MARK LARSON (432) 687-0901

507 N MARIENFELD ST STE 202

MIDLAND, TX 79701 UNITED STATES US SHIP DATE: 19DEC23 ACTWGT: 45.00 LB CAD: 7074331/INET4535 DIMS: 21x15x17 IN

BILL SENDER

TO SAMPLE LOGIN
DHL ANALYTICAL, INC
2300 DOUBLE CREEK DRIVE

583 14/0BE4/0AE3

ROUND ROCK TX 78664

(512) 388-822: INV:

REF:



WED - 20 DEC 12:00P PRIORITY OVERNIGHT

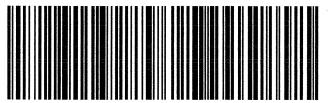
0201 //4:

7745 4549 2940

78664

TX-US AUS

A8 BSMA





DHL Analytical, Inc.

Sample Receipt Checklist Client Name: Larson & Associates Date Received: 12/21/2023 Work Order Number: 2312224 Received by: KAO Reviewed by: Checklist completed by: 12/21/2023 12/21/2023 Date Date Carrier name: FedEx 1day Shipping container/cooler in good condition? Yes 🗸 No 🗌 Not Present Custody seals intact on shipping container/cooler? Yes 🗸 No 🗌 Not Present Custody seals intact on sample bottles? Yes No 🗌 Not Present 🗹 Yes 🗸 Chain of custody present? No 🗌 Yes 🗸 No 🗌 Chain of custody signed when relinquished and received? Chain of custody agrees with sample labels? Yes 🗸 No 🗌 Yes 🗸 Samples in proper container/bottle? No 🗌 Sample containers intact? Yes 🗸 No 🗌 Sufficient sample volume for indicated test? Yes 🗸 No 🗌 All samples received within holding time? Yes 🗸 No 🗌 Yes 🗸 No 🗌 No VOA vials submitted NA 🗌 Water - VOA vials have zero headspace? Water - pH<2 acceptable upon receipt? No 🗌 Yes 🗌 NA 🗸 LOT# Adjusted? Checked by Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt? Yes No 🗌 NA 🗹 LOT# Adjusted? Checked by Container/Temp Blank temperature in compliance? Yes 🗸 No 🗌 Cooler# Temp °C 5.5 Seal Intact Any No response must be detailed in the comments section below. Client contacted: Date contacted: Person contacted: Contacted by: Regarding: Comments: Corrective Action:

DHL Analytical, Inc.

CLIENT: Larson & Associates

Project: Eddy Co. NM/Cottonwood

Lab Order: 2312224

CASE NARRATIVE

Date: 29-Dec-23

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

Method SW8260D - Volatile Aromatics Analysis Method M8015D - DRO Analysis Method M8015V - GRO Analysis Method E300 - Anions Analysis

LOG IN

The samples were received and log-in performed on 12/21/2023. A total of 5 samples were received and analyzed. The samples arrived in good condition and were properly packaged. The samples were collected in Mountain Standard Time.

ANIONS ANALYSIS

For Anions Analysis, the recovery of Chloride for the Matrix Spike and Matrix Spike Duplicate (2312198-01 MS/MSD) was below the method control limits. These are flagged accordingly in the QC Summary Report. This anion was within method control limits in the associated LCS. No further corrective action was taken.

GRO ANALYSIS

For GRO Analysis, the recovery and RPD of the Matrix Spike Duplicate (2312224-05 MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. The associated LCS/MS was within method control limits. No further corrective action was taken.

VOLATILE AROMATICS ANALYSIS

For Volatile Aromatics Analysis, the recovery of Benzene for the Matrix Spike (2312224-04 MS) was marginally above the method control limits. This is flagged accordingly in the QC Summary Report. This compound was within method control limits in the associated LCS/MSD. No further corrective action was taken.

DHL Analytical, Inc.

CLIENT: Larson & Associates

Project: Eddy Co. NM/Cottonwood

Lab Order: 2312224

Work Order Sample Summary

Date: 29-Dec-23

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2312224-01	MW-1		12/18/23 11:18 AM	12/21/2023
2312224-02	MW-2		12/18/23 10:37 AM	12/21/2023
2312224-03	MW-3		12/18/23 10:11 AM	12/21/2023
2312224-04	MW-4		12/18/23 12:14 PM	12/21/2023
2312224-05	Dup-1		12/18/23	12/21/2023

Lab Order: 2312224

Client: Larson & Associates

Project: Eddy Co. NM/Cottonwood

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
2312224-01A	MW-1	12/18/23 11:18 AM	Aqueous	SW5030C	Purge and Trap Water GC/MS	12/27/23 02:38 PM	113426
2312224-01B	MW-1	12/18/23 11:18 AM	Aqueous	SW5030C	Purge and Trap Water GC-Gas	12/28/23 08:20 AM	113436
2312224-01C	MW-1	12/18/23 11:18 AM	Aqueous	E300	Anion Preparation	12/22/23 01:09 PM	113381
2312224-01D	MW-1	12/18/23 11:18 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	12/23/23 11:31 AM	113390
2312224-02A	MW-2	12/18/23 10:37 AM	Aqueous	SW5030C	Purge and Trap Water GC/MS	12/27/23 02:38 PM	113426
2312224-02B	MW-2	12/18/23 10:37 AM	Aqueous	E300	Anion Preparation	12/22/23 01:09 PM	113381
2312224-03A	MW-3	12/18/23 10:11 AM	Aqueous	SW5030C	Purge and Trap Water GC/MS	12/27/23 02:38 PM	113426
2312224-03B	MW-3	12/18/23 10:11 AM	Aqueous	SW5030C	Purge and Trap Water GC-Gas	12/28/23 08:20 AM	113436
2312224-03C	MW-3	12/18/23 10:11 AM	Aqueous	E300	Anion Preparation	12/22/23 01:09 PM	113381
2312224-03D	MW-3	12/18/23 10:11 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	12/23/23 11:31 AM	113390
2312224-04A	MW-4	12/18/23 12:14 PM	Aqueous	SW5030C	Purge and Trap Water GC/MS	12/27/23 02:38 PM	113426
2312224-04B	MW-4	12/18/23 12:14 PM	Aqueous	SW5030C	Purge and Trap Water GC-Gas	12/28/23 08:20 AM	113436
2312224-04C	MW-4	12/18/23 12:14 PM	Aqueous	E300	Anion Preparation	12/22/23 01:09 PM	113381
2312224-04D	MW-4	12/18/23 12:14 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	12/23/23 11:31 AM	113390
2312224-05A	Dup-1	12/18/23	Aqueous	SW5030C	Purge and Trap Water GC/MS	12/27/23 02:38 PM	113426
2312224-05B	Dup-1	12/18/23	Aqueous	SW5030C	Purge and Trap Water GC-Gas	12/28/23 08:20 AM	113436
2312224-05C	Dup-1	12/18/23	Aqueous	E300	Anion Preparation	12/22/23 01:09 PM	113381
2312224-05D	Dup-1	12/18/23	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	12/23/23 11:31 AM	113390

Lab Order: 2312224

Larson & Associates **Client:**

Project: Eddy Co. NM/Cottonwood

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
2312224-01A	MW-1	Aqueous	SW8260D	Volatile Aromatics by GC/MS	113426	1	12/27/23 05:38 PM	GCMS3_231227A
2312224-01B	MW-1	Aqueous	M8015V	TPH Purgeable by GC - Water	113436	1	12/28/23 01:36 PM	GC4_231228A
2312224-01C	MW-1	Aqueous	E300	Anions by IC method - Water	113381	10	12/22/23 08:40 PM	IC2_231222B
2312224-01D	MW-1	Aqueous	M8015D	TPH Extractable by GC - Water	113390	1	12/28/23 11:22 AM	GC15_231228A
2312224-02A	MW-2	Aqueous	SW8260D	Volatile Aromatics by GC/MS	113426	1	12/27/23 06:02 PM	GCMS3_231227A
2312224-02B	MW-2	Aqueous	E300	Anions by IC method - Water	113381	10	12/22/23 08:58 PM	IC2_231222B
2312224-03A	MW-3	Aqueous	SW8260D	Volatile Aromatics by GC/MS	113426	1	12/27/23 06:27 PM	GCMS3_231227A
2312224-03B	MW-3	Aqueous	M8015V	TPH Purgeable by GC - Water	113436	1	12/28/23 01:59 PM	GC4_231228A
2312224-03C	MW-3	Aqueous	E300	Anions by IC method - Water	113381	10	12/22/23 09:16 PM	IC2_231222B
2312224-03D	MW-3	Aqueous	M8015D	TPH Extractable by GC - Water	113390	1	12/28/23 11:31 AM	GC15_231228A
2312224-04A	MW-4	Aqueous	SW8260D	Volatile Aromatics by GC/MS	113426	10	12/27/23 06:51 PM	GCMS3_231227A
2312224-04B	MW-4	Aqueous	M8015V	TPH Purgeable by GC - Water	113436	10	12/28/23 02:23 PM	GC4_231228A
2312224-04C	MW-4	Aqueous	E300	Anions by IC method - Water	113381	1000	12/22/23 06:52 PM	IC2_231222B
2312224-04D	MW-4	Aqueous	M8015D	TPH Extractable by GC - Water	113390	1	12/28/23 11:40 AM	GC15_231228A
2312224-05A	Dup-1	Aqueous	SW8260D	Volatile Aromatics by GC/MS	113426	1	12/27/23 07:15 PM	GCMS3_231227A
2312224-05B	Dup-1	Aqueous	M8015V	TPH Purgeable by GC - Water	113436	1	12/28/23 02:45 PM	GC4_231228A
2312224-05C	Dup-1	Aqueous	E300	Anions by IC method - Water	113381	10	12/22/23 09:34 PM	IC2_231222B
2312224-05D	Dup-1	Aqueous	M8015D	TPH Extractable by GC - Water	113390	1	12/28/23 11:49 AM	GC15_231228A

Received by OCD: 2/29/2024 9:52:09 AM

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

Project: Eddy Co. NM/Cottonwood Lab ID: 2312224-01

Project No: 22-0135-01 **Collection Date:** 12/18/23 11:18 AM

Lab Order: 2312224 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed		
TPH EXTRACTABLE BY GC - WATER		M80 ²	15D			Analyst: BTJ			
TPH-DRO C10-C28	< 0.0759	0.0759	0.0948		mg/L	1	12/28/23 11:22 AM		
TPH-ORO >C28-C35	< 0.0759	0.0759	0.0948		mg/L	1	12/28/23 11:22 AM		
Surr: Isopropylbenzene	42.4	0	25-124		%REC	1	12/28/23 11:22 AM		
Surr: Octacosane	121	0	51-124		%REC	1	12/28/23 11:22 AM		
VOLATILE AROMATICS BY GC/MS		SW82	60D				Analyst: JVR		
Benzene	<0.000800	0.000800	0.00200		mg/L	1	12/27/23 05:38 PM		
Ethylbenzene	< 0.00200	0.00200	0.00600		mg/L	1	12/27/23 05:38 PM		
Toluene	< 0.00200	0.00200	0.00600		mg/L	1	12/27/23 05:38 PM		
Total Xylenes	< 0.00200	0.00200	0.00600		mg/L	1	12/27/23 05:38 PM		
Surr: 1,2-Dichloroethane-d4	109	0	72-119		%REC	1	12/27/23 05:38 PM		
Surr: 4-Bromofluorobenzene	103	0	76-119		%REC	1	12/27/23 05:38 PM		
Surr: Dibromofluoromethane	108	0	85-115		%REC	1	12/27/23 05:38 PM		
Surr: Toluene-d8	104	0	81-120		%REC	1	12/27/23 05:38 PM		
TPH PURGEABLE BY GC - WATER		M80 ⁻	15V				Analyst: BTJ		
TPH-GRO (C6-C10)	< 0.0600	0.0600	0.100		mg/L	1	12/28/23 01:36 PM		
Surr: Tetrachlorethene	78.0	0	74-138		%REC	1	12/28/23 01:36 PM		
ANIONS BY IC METHOD - WATER		E30	00				Analyst: RA		
Chloride	187	3.00	10.0		mg/L	10	12/22/23 08:40 PM		

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RLND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 29-Dec-23

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

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

Project: Eddy Co. NM/Cottonwood Lab ID: 2312224-02

Project No: 22-0135-01 **Collection Date:** 12/18/23 10:37 AM

Lab Order: 2312224 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual Units	DF	Date Analyzed	
VOLATILE AROMATICS BY GC/MS		SW82		Analyst: JVR			
Benzene	<0.000800	0.000800	0.00200	mg/L	1	12/27/23 06:02 PM	
Ethylbenzene	< 0.00200	0.00200	0.00600	mg/L	1	12/27/23 06:02 PM	
Toluene	< 0.00200	0.00200	0.00600	mg/L	1	12/27/23 06:02 PM	
Total Xylenes	< 0.00200	0.00200	0.00600	mg/L	1	12/27/23 06:02 PM	
Surr: 1,2-Dichloroethane-d4	111	0	72-119	%REC	1	12/27/23 06:02 PM	
Surr: 4-Bromofluorobenzene	104	0	76-119	%REC	1	12/27/23 06:02 PM	
Surr: Dibromofluoromethane	110	0	85-115	%REC	1	12/27/23 06:02 PM	
Surr: Toluene-d8	103	0	81-120	%REC	1	12/27/23 06:02 PM	
ANIONS BY IC METHOD - WATER		E300			Analyst: RA		
Chloride	133	3.00	10.0	mg/L	10	12/22/23 08:58 PM	

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RLND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 29-Dec-23

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

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

Project: Eddy Co. NM/Cottonwood Lab ID: 2312224-03

Project No: 22-0135-01 **Collection Date:** 12/18/23 10:11 AM

Lab Order: 2312224 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual Units	DF	Date Analyzed		
TPH EXTRACTABLE BY GC - WATER		M801	15D		Analyst: BTJ			
TPH-DRO C10-C28	< 0.0766	0.0766	0.0957	mg/L	1	12/28/23 11:31 AM		
TPH-ORO >C28-C35	< 0.0766	0.0766	0.0957	mg/L	1	12/28/23 11:31 AM		
Surr: Isopropylbenzene	41.8	0	25-124	%REC	1	12/28/23 11:31 AM		
Surr: Octacosane	98.2	0	51-124	%REC	1	12/28/23 11:31 AM		
VOLATILE AROMATICS BY GC/MS		SW82	60D			Analyst: JVR		
Benzene	<0.00800	0.000800	0.00200	mg/L	1	12/27/23 06:27 PM		
Ethylbenzene	< 0.00200	0.00200	0.00600	mg/L	1	12/27/23 06:27 PM		
Toluene	< 0.00200	0.00200	0.00600	mg/L	1	12/27/23 06:27 PM		
Total Xylenes	< 0.00200	0.00200	0.00600	mg/L	1	12/27/23 06:27 PM		
Surr: 1,2-Dichloroethane-d4	108	0	72-119	%REC	1	12/27/23 06:27 PM		
Surr: 4-Bromofluorobenzene	103	0	76-119	%REC	1	12/27/23 06:27 PM		
Surr: Dibromofluoromethane	108	0	85-115	%REC	1	12/27/23 06:27 PM		
Surr: Toluene-d8	102	0	81-120	%REC	1	12/27/23 06:27 PM		
TPH PURGEABLE BY GC - WATER		M801	15V			Analyst: BTJ		
TPH-GRO (C6-C10)	< 0.0600	0.0600	0.100	mg/L	1	12/28/23 01:59 PM		
Surr: Tetrachlorethene	82.5	0	74-138	%REC	1	12/28/23 01:59 PM		
ANIONS BY IC METHOD - WATER		E30	00			Analyst: RA		
Chloride	175	3.00	10.0	mg/L	10	12/22/23 09:16 PM		

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection LimitS pike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 29-Dec-23

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

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

Project: Eddy Co. NM/Cottonwood Lab ID: 2312224-04

Project No: 22-0135-01 **Collection Date:** 12/18/23 12:14 PM

Lab Order: 2312224 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual Units	DF	Date Analyzed	
TPH EXTRACTABLE BY GC - WATER		M801	5D		Analyst: BTJ		
TPH-DRO C10-C28	< 0.746	0.746	0.933	mg/L	1	12/28/23 11:40 AM	
TPH-ORO >C28-C35	< 0.746	0.746	0.933	mg/L	1	12/28/23 11:40 AM	
Surr: Isopropylbenzene	43.5	0	25-124	%REC	1	12/28/23 11:40 AM	
Surr: Octacosane	105	0	51-124	%REC	1	12/28/23 11:40 AM	
VOLATILE AROMATICS BY GC/MS		SW82	60D			Analyst: JVR	
Benzene	< 0.00800	0.00800	0.0200	mg/L	10	12/27/23 06:51 PM	
Ethylbenzene	< 0.0200	0.0200	0.0600	mg/L	10	12/27/23 06:51 PM	
Toluene	<0.0200	0.0200	0.0600	mg/L	10	12/27/23 06:51 PM	
Total Xylenes	< 0.0200	0.0200	0.0600	mg/L	10	12/27/23 06:51 PM	
Surr: 1,2-Dichloroethane-d4	110	0	72-119	%REC	10	12/27/23 06:51 PM	
Surr: 4-Bromofluorobenzene	103	0	76-119	%REC	10	12/27/23 06:51 PM	
Surr: Dibromofluoromethane	108	0	85-115	%REC	10	12/27/23 06:51 PM	
Surr: Toluene-d8	102	0	81-120	%REC	10	12/27/23 06:51 PM	
TPH PURGEABLE BY GC - WATER		M801	5V			Analyst: BTJ	
TPH-GRO (C6-C10)	< 0.600	0.600	1.00	mg/L	10	12/28/23 02:23 PM	
Surr: Tetrachlorethene	84.4	0	74-138	%REC	10	12/28/23 02:23 PM	
ANIONS BY IC METHOD - WATER		E30	0		Analyst: RA		
Chloride	20200	300	1000	mg/L	1000	12/22/23 06:52 PM	

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RLND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 29-Dec-23

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

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

Project: Eddy Co. NM/Cottonwood Lab ID: 2312224-05

 Project No:
 22-0135-01
 Collection Date:
 12/18/23

 Lab Order:
 2312224
 Matrix:
 AQUEOUS

Analyses Result **MDL** RL **Oual** Units DF **Date Analyzed TPH EXTRACTABLE BY GC - WATER** Analyst: BTJ M8015D TPH-DRO C10-C28 < 0.0777 0.0777 0.0971 mg/L 1 12/28/23 11:49 AM TPH-ORO >C28-C35 < 0.0777 0.0777 0.0971 mg/L 1 12/28/23 11:49 AM Surr: Isopropylbenzene 46.4 0 25-124 %REC 1 12/28/23 11:49 AM Surr: Octacosane 106 0 51-124 %REC 12/28/23 11:49 AM **VOLATILE AROMATICS BY GC/MS** SW8260D Analyst: JVR Benzene <0.00800 0.000800 0.00200 mg/L 1 12/27/23 07:15 PM Ethylbenzene < 0.00200 0.00200 0.00600 mg/L 1 12/27/23 07:15 PM Toluene < 0.00200 0.00200 0.00600 12/27/23 07:15 PM mg/L 1 Total Xylenes < 0.00200 0.00200 0.00600 12/27/23 07:15 PM mg/L Surr: 1,2-Dichloroethane-d4 0 72-119 109 %REC 1 12/27/23 07:15 PM Surr: 4-Bromofluorobenzene 103 0 76-119 %REC 12/27/23 07:15 PM Surr: Dibromofluoromethane 108 0 85-115 %REC 1 12/27/23 07:15 PM Surr: Toluene-d8 105 0 81-120 %REC 1 12/27/23 07:15 PM **TPH PURGEABLE BY GC - WATER** M8015V Analyst: BTJ TPH-GRO (C6-C10) < 0.0600 0.0600 0.100 12/28/23 02:45 PM mg/L 1 Surr: Tetrachlorethene 85.3 0 74-138 %REC 1 12/28/23 02:45 PM **ANIONS BY IC METHOD - WATER** E300 Analyst: RA Chloride 188 3.00 10.0 mg/L 10 12/22/23 09:34 PM

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RLND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 29-Dec-23

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

CLIENT: Larson & Associates

Work Order: 2312224

ANALYTICAL QC SUMMARY REPORT

Date: 29-Dec-23

Project: Eddy Co. NM/Cottonwood RunID: GC15_231228A

Project: Eddy Co	o. NM/Cottonwood				KunII): (3C15_2312	228A	
The QC data in batch 113390	applies to the following sa	mples: 231	12224-01D, 231	2224-03D, 2	312224-04[D, 231222	24-05D		
Sample ID: MB-113390	Batch ID: 113390		TestNo	: М80	15D		Units:	mg/L	
SampType: MBLK	Run ID: GC15_23	1228A	Analysi	s Date: 12/2	8/2023 10:	55:54 A	Prep Date:	12/23/	2023
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD F	PDLimit Qua
TPH-DRO C10-C28	<0.0800	0.100							
TPH-ORO >C28-C35	<0.0800	0.100							
Surr: Isopropylbenzene	0.00352		0.01000		35.2	25	124		
Surr: Octacosane	0.0104		0.01000		104	51	124		
Sample ID: LCS-113390	Batch ID: 113390		TestNo	: M80	15D		Units:	mg/L	
SampType: LCS	Run ID: GC15_23	1228A	Analysi	s Date: 12/2	8/2023 11:0	04:45 A	Prep Date:	12/23/	2023
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD F	PDLimit Qua
TPH-DRO C10-C28	0.999	0.100	1.250	0	79.9	50	114		
Surr: Isopropylbenzene	0.00479		0.01000		47.9	25	124		
Surr: Octacosane	0.0111		0.01000		111	51	124		
Sample ID: LCSD-113390	Batch ID: 113390		TestNo	: M80	15D		Units:	mg/L	
SampType: LCSD	Run ID: GC15_23	1228A	Analysi	s Date: 12/2	8/2023 11:	13:37 A	Prep Date:	12/23/	2023
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD F	PDLimit Qua
TPH-DRO C10-C28	1.04	0.100	1.250	0	83.0	50	114	3.71	30
Surr: Isopropylbenzene	0.00648		0.01000		64.8	25	124	0	0
Surr: Octacosane	0.0102		0.01000		102	51	124	0	0

Qualifiers: B Analyte detected in the associated Method Blank

 $J \quad \ \ Analyte \ detected \ between \ MDL \ and \ RL$

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

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R RPD outside accepted control limits

S Spike Recovery outside control limits

Eddy Co. NM/Cottonwood

Work Order: 2312224

Project:

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_231228A

Sample ID: ICV-231228	Batch ID:	R13075	0	TestNo): M80	15D		Units:	mg/L
SampType: ICV	Run ID:	GC15_2	231228A	Analys	is Date: 12/2	8/2023 10:3	36:41 A	Prep Date):
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qual
TPH-DRO C10-C28		529	0.100	500.0	0	106	80	120	
TPH-ORO >C28-C35		0.431	0.100	0					
Surr: Isopropylbenzene		23.8		25.00		95.3	80	120	
Surr: Octacosane		23.7		25.00		94.7	80	120	

Sample ID: CCV1-231228	Batch ID:	R13075	0	TestNo	: M8 0	015D		Units:	mg/L	
SampType: CCV	Run ID:	GC15_2	231228A	Analysis Date: 12/28/2023 12:30:57 P				Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit	%RPD F	RPDLimit Qual
TPH-DRO C10-C28		269	0.100	250.0	0	108	80	120		
TPH-ORO >C28-C35	(0.0702	0.100	0						
Surr: Isopropylbenzene		10.4		12.50		83.2	80	120		
Surr: Octacosane		11.6		12.50		93.2	80	120		

Qualifiers: B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

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R RPD outside accepted control limits

S Spike Recovery outside control limits

Work Order: 2312224

ANALYTICAL QC SUMMARY REPORT

Project: Eddy Co. NM/Cottonwood RunID: GC4_231228A

The QC data in batch 113436 ap	plies to the	following	samples: 231	2224-01B, 231	2224-03B, 2	312224-04E	3, 231222	4-05B			
Sample ID: LCS-113436	Batch ID:	113436		TestNo	: M80)15V		Units:	mg/L		
SampType: LCS	Run ID:	GC4_2	31228A	Analysi	s Date: 12/2	28/2023 11:2	28:44 A	Prep Date:	12/28	/2023	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD F	RPDLimi	t Qua
TPH-GRO (C6-C10)		2.45	0.100	2.500	0	98.2	67	136			
Surr: Tetrachlorethene		0.358		0.4000		89.6	74	138			
Sample ID: LCSD-113436	Batch ID:	113436		TestNo	: М80)15V		Units:	mg/L		
SampType: LCSD	Run ID:	GC4_2	31228A	Analysi	s Date: 12/2	28/2023 11:	51:17 A	Prep Date:	12/28	/2023	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD F	RPDLimi	t Qual
TPH-GRO (C6-C10)		2.42	0.100	2.500	0	96.9	67	136	1.31	30	
Surr: Tetrachlorethene		0.358		0.4000		89.5	74	138	0	0	
Sample ID: MB-113436	Batch ID:	113436		TestNo	: М80)15V		Units:	mg/L		
SampType: MBLK	Run ID:	GC4_2	31228A	Analysi	s Date: 12/2	28/2023 12:	59:04 P	Prep Date:	12/28	/2023	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD F	RPDLimi	t Qual
TPH-GRO (C6-C10)	<	<0.0600	0.100								
Surr: Tetrachlorethene		0.336		0.4000		83.9	74	138			
Sample ID: 2312224-05BMS	Batch ID:	113436		TestNo	: M80)15V		Units:	mg/L		
SampType: MS	Run ID:	GC4_2	31228A	Analysi	s Date: 12/2	28/2023 3:07	7:50 PM	Prep Date:	12/28	/2023	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD F	RPDLimi	t Qual
TPH-GRO (C6-C10)		2.12	0.100	2.500	0	84.8	67	136			
Surr: Tetrachlorethene		0.339		0.4000		84.7	74	138			
Sample ID: 2312224-05BMSD	Batch ID:	113436		TestNo	: М80)15V		Units:	mg/L		
SampType: MSD	Run ID:	GC4_2	31228A	Analysi	s Date: 12/2	28/2023 3:30	0:30 PM	Prep Date:	12/28	/2023	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD F	RPDLimi	t Qual
TPH-GRO (C6-C10)		1.46	0.100	2.500	0	58.4	67	136	36.8	30	SR
Surr: Tetrachlorethene		0.356		0.4000		89.0	74	138	0	0	

Qualifiers: B Analyte detected in the associated Method Blank

 $J \quad \ \ Analyte \ detected \ between \ MDL \ and \ RL$

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

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R RPD outside accepted control limits

S Spike Recovery outside control limits

Work Order: 2312224

ANALYTICAL QC SUMMARY REPORT

Project: Eddy Co. NM/Cottonwood RunID: GC4_231228A

Sample ID: ICV-231228	Batch ID:	R13076	0	TestNo): M 8	3015V		Units:	mg/l	L
SampType: ICV	Run ID:	GC4_23	31228A	Analys	is Date: 12	/28/2023 11:0	5:28 A	Prep Date	:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit Qua
TPH-GRO (C6-C10)		4.65	0.100	5.000	0	92.9	80	120		
Surr: Tetrachlorethene		0.405		0.4000		101	74	138		

Sample ID: CCV1-231228	Batch ID:	R13076	0	TestNo): M8	015V		Units:	mg/l	-	
SampType: CCV	Run ID:	Run ID: GC4_231228A			Analysis Date: 12/28/2023 3:53:17 PM				Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD	RPDLimit Qual	
TPH-GRO (C6-C10)		2.17	0.100	2.500	0	86.8	80	120			
Surr: Tetrachlorethene		0.347		0.4000		86.7	74	138			

Qualifiers: B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

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R RPD outside accepted control limits

S Spike Recovery outside control limits

Work Order: 2312224

ANALYTICAL QC SUMMARY REPORT

Project: Eddy Co. NM/Cottonwood RunID: GCMS3_231227A

Project: Eddy Co.	NM/Cottonwood				KunII	υ: (GCMS3_23	51227A
The QC data in batch 113426 ap	oplies to the following s	amples: 231	2224-01A, 231	2224-02A, 2	312224-03/	A, 231222	4-04A, 23122	24-05A
Sample ID: LCS-113426	Batch ID: 113426		TestNo	: SW	8260D		Units:	mg/L
SampType: LCS	Run ID: GCMS3	_231227A	Analys	is Date: 12/2	7/2023 4:49	9:00 PM	Prep Date:	12/27/2023
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPDLimit Qua
Benzene	0.0270	0.00200	0.0232	0	116	81	122	
Ethylbenzene	0.0255	0.00600	0.0232	0	110	73	127	
Toluene	0.0265	0.00600	0.0232	0	114	77	122	
Total Xylenes	0.0762	0.00600	0.0696	0	110	80	121	
Surr: 1,2-Dichloroethane-d4	219		200.0		109	72	119	
Surr: 4-Bromofluorobenzene	208		200.0		104	76	119	
Surr: Dibromofluoromethane	216		200.0		108	85	115	
Surr: Toluene-d8	204		200.0		102	81	120	
Sample ID: MB-113426	Batch ID: 113426		TestNo	o: SW	8260D		Units:	mg/L
SampType: MBLK	Run ID: GCMS3	_231227A	Analys	is Date: 12/2	7/2023 5:14	4:00 PM	Prep Date:	12/27/2023
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPDLimit Qua
Benzene	<0.000800	0.00200						
Ethylbenzene	<0.00200	0.00600						
Toluene	<0.00200	0.00600						
Total Xylenes	<0.00200	0.00600						
Surr: 1,2-Dichloroethane-d4	216		200.0		108	72	119	
Surr: 4-Bromofluorobenzene	207		200.0		104	76	119	
Surr: Dibromofluoromethane	214		200.0		107	85	115	
Surr: Toluene-d8	207		200.0		104	81	120	
Sample ID: SB-231228	Batch ID: 113426		TestNo	o: SW	8260D		Units:	mg/L
SampType: SBLK	Run ID: GCMS3	_231227A	Analys	is Date: 12/2	8/2023 10:	59:00 A	Prep Date:	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPDLimit Qua
Benzene	<0.00800	0.00200	0					
Ethylbenzene	<0.00200	0.00600	0					
Toluene	<0.00200	0.00600	0					
Total Xylenes	<0.00200	0.00600	0					
Surr: 1,2-Dichloroethane-d4	222		200.0		111	72	119	
Surr: 4-Bromofluorobenzene	207		200.0		103	76	119	
Surr: Dibromofluoromethane	220		200.0		110	85	115	
Surr: Toluene-d8	204		200.0		102	81	120	
Sample ID: 2312224-04AMS	Batch ID: 113426		TestNo	o: SW	8260D		Units:	mg/L
SampType: MS	Run ID: GCMS3	_231227A	Analys	is Date: 12/2	8/2023 11:	23:00 A	Prep Date:	12/27/2023
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPDLimit Qua
Benzene	0.286	0.0200	0.232	0	123	81	122	S
Ovalifiana D. Analyta dat	acted in the associated M	lathad Dlamb	DE	Dilution Foots				
-	ected in the associated M			Dilution Factor Method Detect				D. 7 CO
•	ected between MDL and					trol limit-		Page 5 of 9
	ed at the Method Detection	nı Limit		RPD outside a				
RL Reporting I	amit		S	Spike Recove	ry outside co	ntroi limits	S	

Parameter not NELAP certified

Analyte detected between SDL and RL

Sample ID: 2312224-04AMSD Batch ID: 113426

Work Order: 2312224

ANALYTICAL QC SUMMARY REPORT

Units:

mg/L

Project: Eddy Co. NM/Cottonwood RunID: GCMS3_231227A

Sample ID: 2312224-04AMS SampType: MS	Batch ID: Run ID:	113426 GCMS3	3_231227A	TestNo Analysi	-	V8260D /28/2023 11:2	23:00 A	Units: Prep Date:	mg/L 12/27/2023
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qual
Ethylbenzene		0.270	0.0600	0.232	0	116	73	127	
Toluene		0.284	0.0600	0.232	0	122	77	122	
Total Xylenes		0.809	0.0600	0.696	0	116	80	121	
Surr: 1,2-Dichloroethane-d4		2220		2000		111	72	119	
Surr: 4-Bromofluorobenzene		2110		2000		105	76	119	
Surr: Dibromofluoromethane		2180		2000		109	85	115	
Surr: Toluene-d8		2060		2000		103	81	120	

TestNo:

SW8260D

										J			
SampType: MSD	Run ID: GCMS3_2312		_231227A	31227A Analysis Date: 12/28/2023 11:48:0			48:00 A	0 A Prep Date: 12/27/2023					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD	RPDLimit Qua			
Benzene		0.274	0.0200	0.232	0	118	81	122	4.26	20			
Ethylbenzene		0.253	0.0600	0.232	0	109	73	127	6.30	20			
Toluene		0.270	0.0600	0.232	0	116	77	122	5.05	20			
Total Xylenes		0.764	0.0600	0.696	0	110	80	121	5.67	20			
Surr: 1,2-Dichloroethane-d4		2220		2000		111	72	119	0	0			
Surr: 4-Bromofluorobenzene		2100		2000		105	76	119	0	0			
Surr: Dibromofluoromethane		2180		2000		109	85	115	0	0			
Surr: Toluene-d8		2070		2000		103	81	120	0	0			

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

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Work Order: 2312224

Project:

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_231227A Eddy Co. NM/Cottonwood

Sample ID: ICV-231227	Batch ID:	R13074	1	TestNo	SW	/8260D		Units:	mg/L
SampType: ICV	Run ID:	GCMS3	_231227A	Analysi	s Date: 12/	27/2023 4:25	:00 PM	Prep Date	9:
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qua
Benzene		0.0572	0.00200	0.0464	0	123	70	130	
Ethylbenzene		0.0552	0.00600	0.0464	0	119	70	130	
Toluene		0.0571	0.00600	0.0464	0	123	70	130	
Total Xylenes		0.167	0.00600	0.139	0	120	70	130	
Surr: 1,2-Dichloroethane-d4		218		200.0		109	72	119	
Surr: 4-Bromofluorobenzene		214		200.0		107	76	119	
Surr: Dibromofluoromethane		214		200.0		107	85	115	
Surr: Toluene-d8		206		200.0		103	81	120	

Sample ID: ICV-231228	Batch ID:	R13074	11	TestNo	: SW	8260D		Units:	mg/L	
SampType: ICV	Run ID:	GCMS	3_231227A	Analys	is Date: 12/2	28/2023 10:	34:00 A	Prep Date	e:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RP	DLimit Qual
Benzene		0.0534	0.00200	0.0464	0	115	70	130		
Ethylbenzene		0.0516	0.00600	0.0464	0	111	70	130		
Toluene		0.0531	0.00600	0.0464	0	115	70	130		
Total Xylenes		0.154	0.00600	0.139	0	111	70	130		
Surr: 1,2-Dichloroethane-d4		220		200.0		110	72	119		
Surr: 4-Bromofluorobenzene		211		200.0		106	76	119		
Surr: Dibromofluoromethane		217		200.0		109	85	115		
Surr: Toluene-d8		205		200.0		103	81	120		

Qualifiers:

Analyte detected in the associated Method Blank В

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

Reporting Limit

Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

RPD outside accepted control limits R

S Spike Recovery outside control limits Parameter not NELAP certified

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Work Order: 2312224 ANALYTICAL QC SUMMARY REPORT

Project: Eddy Co. NM/Cottonwood **RunID:** IC2_231222B

The QC data	a in batch 113381 ap	plies to the t	following samp	oles: 2312	2224-01C, 2312	2224-02B, 23	12224-030	c, 231222	4-04C, 23122	224-05C		
Sample ID:	MB-113381	Batch ID:	113381		TestNo:	E300			Units:	mg/L		
SampType:	MBLK	Run ID:	IC2_231222	В	Analysis	Date: 12/22	2/2023 5:58	3:53 PM	Prep Date:	12/22/2	023	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit S	%RPD RF	PDLimit C	Qual
Chloride			<0.300	1.00								
Sample ID:	LCS-113381	Batch ID:	113381		TestNo:	E300			Units:	mg/L		
SampType:	LCS	Run ID:	IC2_231222	В	Analysis	Date: 12/22	2/2023 6:16	5:53 PM	Prep Date:	12/22/2	023	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit S	%RPD RF	PDLimit C	Qual
Chloride			9.52	1.00	10.00	0	95.2	90	110			
Sample ID:	LCSD-113381	Batch ID:	113381		TestNo:	E300			Units:	mg/L		
SampType:	LCSD	Run ID:	IC2_231222	В	Analysis	Date: 12/22	2/2023 6:34	:53 PM	Prep Date:	12/22/2	023	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit S	%RPD RF	PDLimit C	Qual
Chloride			9.53	1.00	10.00	0	95.3	90	110	0.153	20	
Sample ID:	2312198-01AMS	Batch ID:	113381		TestNo:	E300			Units:	mg/L		
SampType:	MS	Run ID:	IC2_231222	В	Analysis	Date: 12/22	2/2023 8:04	:53 PM	Prep Date:	12/22/2	023	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit S	%RPD RF	PDLimit C	Qual
Chloride			408	10.0	200.0	249.0	79.6	90	110			S
Sample ID:	2312198-01AMSD	Batch ID:	113381		TestNo:	E300			Units:	mg/L		
SampType:	MSD	Run ID:	IC2_231222	В	Analysis	Date: 12/22	2/2023 8:22	2:53 PM	Prep Date:	12/22/2	023	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit 9	%RPD RF	PDLimit C	Qual
Chloride			409	10.0	200.0	249.0	79.9	90	110	0.182	20	S
Sample ID:	2312226-01DMS	Batch ID:	113381		TestNo:	E300			Units:	mg/L		
SampType:	MS	Run ID:	IC2_231222	В	Analysis	Date: 12/22	2/2023 10:1	0:53 P	Prep Date:	12/22/2	023	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit 9	%RPD RF	PDLimit C	Qual
Chloride			197	10.0	200.0	5.711	95.7	90	110			
Sample ID:	2312226-01DMSD	Batch ID:	113381		TestNo:	E300			Units:	mg/L		
SampType:	MSD	Run ID:	IC2_231222	В	Analysis	Date: 12/22	2/2023 10:2	8:53 P	Prep Date:	12/22/2	023	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit 9	%RPD RF	PDLimit C	Qual
Chloride			197	10.0	200.0	5.711	95.7	90	110	0.008	20	

Qualifiers:

В Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

Reporting Limit

Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

RPD outside accepted control limits

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R S Spike Recovery outside control limits

Parameter not NELAP certified

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Eddy Co. NM/Cottonwood

Work Order: 2312224

Project:

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_231222B

Sample ID: ICV-231222	Batch ID:	R13069	5	TestNo	E30	0		Units:	mg/L
SampType: ICV	Run ID:	IC2_23	1222B	Analysi	s Date: 12/2	22/2023 10:4	7:44 A	Prep Date	e:
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit	%RPD RPDLimit Qual
Chloride		24.0	1.00	25.00	0	96.1	90	110	
Sample ID: CCV1-231222	Batch ID:	R13069	5	TestNo	E30	0		Units:	mg/L
SampType: CCV	Run ID:	IC2_23	1222B	Analysi	s Date: 12/2	2/2023 5:22	2:53 PM	Prep Date	e:
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit	%RPD RPDLimit Qual
Chloride		9.54	1.00	10.00	0	95.4	90	110	
Sample ID: CCV2-231222	Batch ID:	R13069	5	TestNo	E30	0		Units:	mg/L
SampType: CCV	Run ID:	IC2_23	1222B	Analysi	s Date: 12/2	23/2023 12:1	6:53 A	Prep Date	e:
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit	%RPD RPDLimit Qual
Chloride		9.60	1.00	10.00	0	96.0	90	110	

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

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R RPD outside accepted control limits

S Spike Recovery outside control limits

District I
1625 N. French Dr., Hobbs, NM 88240
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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

Action 318953

CONDITIONS

Operator:	OGRID:
DKL Energy - Cottonwood, LLC	330291
310 Seven Springs Way Suite 50	Action Number:
Brentwood, TN 37027	318953
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By		Condition Date
michael.buchanan	Review of the Fourth Quarter Groundwater Monitoring Report for the Cottonwood Facility (2RF-128): Content Satisfactory 1. Continue to conduct quarterly groundwater monitoring. 2. Consider preparing a contingency plan for monitoring wells that remain dry; for example, going out thirty (30) days after sampling event to check for sufficient water volume, or drilling the wells to a deeper extent. 3. Submit the next annual report to NMOCD by April 1, 2025.	4/23/2024