May 1,

Tracking Number: nRM2031146817 2024 First Quarter Groundwater Monitoring Report Northeast Drinkard Unit #829, #830, #922, #928, and #929 Lea County, New Mexico

Prepared for:

Apache

303 Veterans Airpark Lance

Midland, TX 79701

Prepared by:

REVIEWED

By Mike Buchanan at 3:38 pm, Jan 07, 2025

Review of the 2024 First Quarter Groundwater Monitoring Report Northeast Drinkard Unit #829, 830, 922, 928, and 929. Content is satisfactory 1. Continue to conduct groundwater monitoring on a quarterly calendar schedule.

2. Gauge each well as prescribed herein.

3. Please provide four (4) days prior to conducting sampling events.

4. If wells continue to remain dry and without sufficient volume to sample, propose a contingency plan to OCD or propose to drill deeper wells to collect enough volume.

5. Submit the 2025 monitoring reports no later than April 1, 2026.

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LAI Project No: 19-0112-22

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1.0 EXECUTIVE SUMMARY

Larson & Associates, Inc. (LAI) has prepared this report on behalf of Apache Corporation (Apache) for submittal to the New Mexico Oil Conservation Division (NMOCD) District I in Hobbs and Santa Fe, New Mexico. This report presents 2024 first (1st) quarter (January - March) groundwater monitoring results for the Northeast Drinkard Unit (NEDU) #829, #830, #922, #928, and #929 (Sites). The Sites are located in Section 22, Township 21 South, Range 37 East, in Lea County, New Mexico. The approximate geodetic position is North 32.46294° and West -103.15153°.

The following activities occurred on March 18, 2024:

- Gauged depth to groundwater in four monitor wells (MW-1 through MW-4).
- Purged and collected groundwater samples from four monitor wells (MW-1 through MW-4) for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), total dissolved solids (TDS), and chloride.

The following observations are documented in this report:

- Depth to groundwater ranged from 40.39 feet below ground surface (bgs) in MW-4 to 54.53 feet bgs in MW-1.
- Groundwater elevation ranged between 3,371.55 feet above mean sea level (MSL) at MW-4 (upgradient) and 3,354.90 feet above MSL at MW-3 (downgradient).
- BTEX compounds were reported below the analytical method reporting limit (RL) and New Mexico Water Quality Control Commission (NMWQCC) human health standards in samples from all monitor wells.
- Chloride was reported above the NMWQCC domestic water quality standard of 250 milligrams per liter (mg/L) in wells MW-1 (1,280 mg/L) and MW-2 (326 mg/L).
- TDS was reported above the NMWQCC domestic water quality standard of 1,000 mg/L in well MW-1 (2,500 mg/L).

Apache proposes the following:

- Apache will continue groundwater monitoring on a quarterly (4 times per year) schedule.
- Gauge all monitoring wells for depth to groundwater and collect groundwater samples from monitoring wells with sufficient groundwater during each quarterly event.
- Analyze samples for BTEX, chloride and TDS.
- Apache will provide notice to the NMOCD in Hobbs and Santa Fe, New Mexico, at least 48 hours prior to each monitoring event.

2.0 INTRODUCTON

LAI has prepared this report on behalf of Apache for submittal to the NMOCD District I in Hobbs and Santa Fe, New Mexico. This report presents 2024 quarterly groundwater monitoring results for the first quarter on March 18, 2024. The NMOCD was notified via web portal on March 7, 2024. During the quarterly event, groundwater samples were collected from monitor wells MW-1 through MW-4, at the NEDU #829, #830, #922, #928, and #929 located in Lea County, New Mexico. The legal description is Section 22, Township 21 South, Range 37 East. The geodetic coordinates are as follows:

Site	North (°)	West (°)
NEDU #829	32.462947	-103.151539
NEDU #830	32.463967	-103.155761
NEDU #922	32.457803	-103.151181
NEDU #928	32.458019	-103.155831
NEDU #929	32.458022	-103.151450

Figure 1 presents a topographic map. Figure 2 presents an aerial map. Figure 3 presents a site map. Appendix A presents NMOCD communications.

2.1 Background

On April 6, 2001, the landowner reported to the NMOCD that an Apache contractor was closing drilling pits at the Sites by disposing pit fluid in open trenches adjacent to the drilling pits. Apache was notified and submitted the initial C-141 on April 23, 2001. NMOCD assigned the trenches remediation permit 1RP-313.

On April 23, 2001, Apache submitted a work plan for remediating the trenches. NMOCD approved the work plan on May 8, 2001. The work plan stated that the trenches at wells #829, #830 and #929 would be excavated to approximately 19 feet bgs and to approximately 13 feet bgs at #928. There is no evidence that the trench was excavated at #922. An Apache contractor collected bottom and composite samples from the excavations and found chloride above the remediation closure limits in all excavations. TPH was reported above the NMOCD closure limits in the excavation at #928. No documentation is available in NMOCD files to confirm the remediation.

On October 31, 2019, Apache submitted an administrative summary and path forward for remediating and closing the trenches. The plan requested a variance from NMOCD to excavate soil to a depth of approximately four (4) feet bgs at each trench and install a 20-mil polyethylene liner in the bottom of the excavations. Additionally, Apache committed to installing monitoring wells hydraulically down gradient (east to southeast) approximately 50 feet from the trench. On May 19, 2021, the NMOCD approved the administrative summary and path forward for remediation but stated that "preapproval for monitoring well locations on map before installation" was required. On July 14, 2021, NMOCD approved the monitor well locations.

3.0 GROUNDWATER INVESTIGATION

3.1 Monitoring Well Installations

On July 19 and 20, 2021, Scarborough Drilling, Inc. (SDI), under the supervision of LAI, installed monitoring wells MW-1, MW-2, MW-3, and MW-4 utilizing an air rotary drilling rig at locations specified in the New Mexico Office of the State Engineer (OSE) permits. The wells were completed in 5-inch diameter borings advanced between about 65 and 76 feet bgs. Monitoring wells MW-1, MW-2, MW-3, and MW-4 were completed at depths of 74.08, 74.86, 65.35 and 76.01 feet bgs, respectively. The monitoring wells are completed with a 2-inch schedule 40 threaded PVC casing and 20 feet of 0.010inch factory slotted screen installed above and below the groundwater level observed during drilling. Graded silica sand is positioned around the well screens to a depth about 2 feet above the screen. Sodium bentonite chips extend around the PVC riser and above the sand to about 1-foot bgs. The wells are secured with locking steel sleeves anchored in concrete.

On July 27 through 30, 2021, the wells were developed by pumping with an electric submersible pump to remove sediment disturbed during drilling and well installation. Approximately 40 gallons of water were removed from each well and placed in 55-gallon drums. The water was disposed in a NMOCD commercial saltwater disposal well (SWD).

West Company, a State of New Mexico licensed Professional Land Surveyor (PLS Number 23263) surveyed the monitoring wells for location and elevation including top of casing and natural ground surface. Figure 3 presents Site drawing showing the monitoring well locations. Table 1 presents the monitoring well completion and gauging summary. Appendix B presents the boring logs and well completion records.

4.0 GROUNDWATER MONITORING

4.1 Depth to Groundwater and Groundwater Potentiometric Surface Elevation

On March 18, 2024, LAI personnel gauged monitoring wells MW-1 through MW-4 for depth to groundwater. Groundwater was gauged in monitoring well MW-1 (54.53 feet bgs), MW-2 (52.36 feet bgs), MW-3 (51.82 feet bgs), and MW-4 (40.39 feet bgs). The groundwater potentiometric surface elevation ranged from 3,371.55 feet above MSL in well MW-4 (upgradient) and 3,354.90 feet above MSL at well MW-3 (downgradient). The groundwater flow direction was from northwest to southeast at a gradient of about 0.013 ft/ft. Figure 4 presents the groundwater potentiometric surface map for March 18, 2024.

4.2 Groundwater Samples and Analysis

On March 28, 2024, LAI personnel collected groundwater samples from monitoring wells MW-1 through MW-4, after removing approximately three (3) well volumes of groundwater by purging with dedicated disposable polyethylene bailers. The samples were transferred to labeled laboratory

containers and delivered under chain-of-custody control and preservation to Eurofins Laboratories (Eurofins), a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory, in Midland, Texas. Eurofins analyzed the samples for BTEX according to EPA SW-846 Method SW-8260D, TDS by Method SM 2540C, and chloride by EPA Method 300. A duplicate sample was collected from MW-2 for laboratory quality assurance and quality control (QA/QC). Table 2 presents the laboratory analytical summary. Appendix C presents the laboratory report.

4.2.1 Organic Analysis

BTEX concentrations were below the laboratory RL and NMWQCC human health standards in all groundwater samples. The results are consistent with previous groundwater monitoring events.

4.2.2 Inorganic Analysis

Chloride concentrations were above NMWQCC domestic water quality standard of 250 mg/L in samples from monitor wells MW-1 (1,280 mg/L) and MW-2 (326 mg/L). Chloride concentrations were reported below the NMWQCC domestic water quality standard in monitoring wells MW-3 (143 mg/L), and MW-4 (183 mg/L). Chloride was reported at 306 mg/L in the QA/QC sample, DUP-1 (MW-2), and was a 6.1 percent change from the original chloride value of 326 mg/L reported for MW-2. No data exceptions were noted in the laboratory report case narratives. The chloride data is consistent with previous groundwater monitoring events. Figure 5 presents the chloride concentration map for March 18, 2024. Appendix D presents the chloride control chart.

TDS was reported above the NMWQCC domestic water quality standard of 1,000 mg/L in the groundwater sample collected from monitoring well MW-1 (2,500 mg/L). The TDS concentrations were below the NMWQCC domestic water quality standard in groundwater samples from MW-2 (988 mg/L), MW-3 (650 mg/L) and MW-4 (781 mg/L). TDS was reported at 1,050 mg/L in the QA/QC sample, DUP-1 (MW-2), and was a 6.3 percent change from the original chloride value of 988 mg/L reported for MW-2. No data exceptions were noted in the laboratory case narratives. The TDS data is consistent with previous groundwater monitoring events. Figure 6 presents the TDS concentration map for March 18, 2024. Appendix E presents the TDS control chart.

5.0 CONCLUSIONS

The following observations are documented in this report:

- Groundwater elevation ranged between 3,371.55 feet above MSL at well MW-4 (upgradient) and 3,354.90 (MSL) at well MW-3 (downgradient).
- The groundwater flow direction was from northwest to southeast at a gradient of about 0.013 feet per foot (ft/ft).
- BTEX concentrations were below the analytical method RL and NMWQCC human health standards in all groundwater samples collected from monitoring wells MW-1 through MW-4.

- Chloride concentrations were above the NMWQCC domestic water quality standard (250 mg/L) in samples from MW-1 (1,280 mg/L) and MW-2 (326 mg/L), and below the NMWQCC standard in samples from MW-3 (143 mg/L) and MW-4 (183 mg/L).
- TDS concentrations were above the NMWQCC domestic water quality standard (1,000 mg/L) in the groundwater sample from MW-1 (2,670 mg/L) and below the NMWQCC standard in groundwater samples from MW-2 (988 mg/L), MW-3 (650 mg/L), and MW-4 (755 mg/L).

6.0 RECOMMENDATIONS

Apache proposes the following:

- Continue groundwater monitoring on a quarterly (4 times per year).
- Gauge each well (MW-1 through MW-4) for depth to groundwater and collect groundwater samples from monitoring wells with sufficient groundwater during each quarterly event.
- Apache will provide notice to the NMOCD in Hobbs and Santa Fe, New Mexico, at least 48 hours' notice via the NMOCD web portal prior to each monitoring event.

Tables

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Table 1 Monitoring Well Completion and Gauging Summary Apache Corportaion, NEDU Drill Pits Lea County, New Mexico

			V	Vell Inform	nation					Gr	oundwate	r Data	
Well	Drill	Well	Well	Well	Screen	Casing	тос	Surface	Date	Depth to	Depth to	Water	Groundwater
ID	Date	Depth	Depth	Diameter	Interval	Stickup	Elevation	Elevation	Gauged	Water	Water	Column	Elevation
		(TOC Feet)	(Feet BGS)	(inches)	(Feet BGS)	(Feet)	(Feet AMSL)	(Feet AMSL)		(Feet TOC)	(Feet BGS)	(Feet)	(Feet AMSL)
MW-1	07/19/2021	74.08	71.08	2	70.85-50.85	3.00	3,417.34	3417.34	07/29/2021	57.40	54.40	16.68	3,359.94
									11/08/2021	57.40	54.40	16.68	3,359.94
									03/02/2022	57.36	54.36	16.72	3,359.98
									05/24/2022	57.32	54.32	16.76	3,360.02
									08/17/2022	57.40	54.40	16.68	3,359.94
									12/14/2022	57.39	54.39	16.69	3,359.95
									03/10/2023	57.41	54.41	16.67	3,359.93
									06/05/2023	57.41	54.41	16.67	3,359.93
									09/08/2023	57.48	54.48	16.60	3,359.86
									12/28/2023	57.51	54.51	16.57	3,359.83
									03/18/2024	57.53	54.53	16.55	3,359.81
MW-2	07/19/2021	74.86	71.86	2	71.68-51.68	3.00	3,411.66	3408.43	07/29/2021	54.81	51.81	20.05	3,356.85
									11/08/2021	54.85	51.85	20.01	3,356.81
										E 4 04	54.04	10.05	0.050.75
									03/02/2022	54.91 54.91	51.91 51.91	19.95 19.95	3,356.75 3,356.75
									05/24/2022 08/17/2022	54.91 55.04	52.04	19.95	3,356.62
									12/14/2022	55.04 55.08	52.04 52.08	19.82	3,356.58
									12/14/2022	00.00	02.00	10.70	0,000.00
									03/10/2023	55.18	52.18	19.68	3,356.48
									06/05/2023	55.25	52.18	19.61	3,356.41
									09/08/2023	55.27	52.27	19.59	3,356.39
									12/28/2023	55.31	52.31	19.55	3,356.35
									03/18/2024	55.36	52.36	19.50	3,356.30
MW-3	07/20/2021	65.35	62.75	2	65.15-45.15	2.60	3,409.32	3406.01	07/29/2021	53.55	50.95	11.80	3,355.77
									11/08/2021	53.67	51.07	9.68	3,355.65

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Table 1 Monitoring Well Completion and Gauging Summary Apache Corportaion, NEDU Drill Pits Lea County, New Mexico

	Well Information									Gr	oundwater	r Data	
Well	Drill	Well	Well	Well	Screen	Casing	тос	Surface	Date	Depth to	Depth to	Water	Groundwater
ID	Date	Depth	Depth	Diameter	Interval	Stickup	Elevation	Elevation	Gauged	Water	Water	Column	Elevation
		(TOC Feet)	(Feet BGS)	(inches)	(Feet BGS)	(Feet)	(Feet AMSL)	(Feet AMSL)		(Feet TOC)	(Feet BGS)	(Feet)	(Feet AMSL)
									03/02/2022	53.83	51.23	11.52	3,355.49
									05/24/2022	53.88	51.28	11.47	3,355.44
									08/17/2022	54.08	51.48	11.27	3,355.24
									12/14/2022	54.21	51.61	11.14	3,355.11
									03/10/2023	54.30	51.70	11.05	3,355.02
									06/05/2023	54.37	51.77	10.98	3,354.95
									09/08/2023	54.39	51.79	10.96	3,354.93
									12/28/2023	54.46	51.86	10.89	3,354.86
										- / /0	54.00	10.00	0.054.00
									03/18/2024	54.42	51.82	10.93	3,354.90
MW-4	07/20/2021	76.01	72.93	2	75.81-55.81	3.08	3,415.02	3412.51	07/30/2021	44.38	41.30	31.63	3,370.64
1.100-4	0772072021	70.01	72.00	2	/5.01-55.01	5.00	3,413.02	5412.51	11/08/2021	43.44	40.36	32.57	3,371.58
									11/00/2021	10.11	10.00	02.07	0,07 1100
									03/02/2022	43.44	40.36	32.57	3,371.58
									05/24/2022	43.50	40.42	32.51	3,371.52
									08/17/2022	42.63	39.55	33.38	3,372.39
									12/14/2022	43.64	40.56	32.37	3,371.38
									03/10/2023	43.62	40.54	32.39	3,371.40
									06/05/2023	43.71	40.63	32.30	3,371.31
									09/08/2023	43.76	40.68	32.25	3,371.26
									12/28/2023	43.58	40.50	32.43	3,371.44
									03/18/2024	43.47	40.39	32.54	3,371.55

Table 1 Monitoring Well Completion and Gauging Summary Apache Corportaion, NEDU Drill Pits Lea County, New Mexico

	Well Information									Gr	oundwate	Data	
Well	Drill	Well	Well	Well	Screen	Casing	тос	Surface	Date	Depth to	Depth to	Water	Groundwater
ID	Date	Depth	Depth	Diameter	Interval	Stickup	Elevation	Elevation	Gauged	Water	Water	Column	Elevation
		(TOC Feet)	(Feet BGS)	(inches)	(Feet BGS)	(Feet)	(Feet AMSL)	(Feet AMSL)		(Feet TOC)	(Feet BGS)	(Feet)	(Feet AMSL)

Notes:	
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Monitoring wells installed by Scarborough Drilling, Inc. Lamesa, Texas with 2 inch schedule 40 PVC casing and screen.

bgs: below ground surface

TOC: top of casing

AMSL: above mean sea level

Well	Collection	Benzene	Toluene	Ethylbenzene	Xylenes	Chloride	TDS
ID	Date	(mg/L)	(mg/L)	۔ (mg/L)	- (mg/L)	(mg/L)	(mg/L)
NMWQCC Standard	:	*0.005	*1	*0.7	*0.62	**250	**1,000
MW-1	07/29/2021	<0.00200	<0.00200	<0.00200	<0.00400	446	2,510
(NEDU #830)	11/08/2021	<0.00200	<0.00200	<0.00200	<0.00400	1,270	2,490
	03/02/2022	<0.00200	<0.00200	<0.00200	<0.00400	1,250	2,500
	05/24/2022	<0.00200	<0.00200	<0.00200	<0.00400	912	2,500
	08/17/2022	<0.00200	<0.00200	<0.00200	<0.00400	1,070	2,670
	12/14/2022	<0.00200	<0.00200	<0.00200	<0.00400	893	2,520
	03/10/2023	<0.00100	<0.00100	<0.00100	<0.00100	1,210	2,600
	06/05/2023	<0.00200	<0.00200	<0.00200	<0.00400	1,140	2,950
	09/08/2023	<0.00200	<0.00200	<0.00200	<0.00400	1,010	3,000
	12/28/2023	<0.00100	<0.00100	<0.00100	<0.0100	1,040	3,210
	03/18/2024	<0.00200	<0.00200	<0.00200	<0.00400	1,280	2,500
MW-2	07/29/2021	0.0391	<0.00200	<0.00219	<0.00400	268	1,170
(NEDU #922)	11/08/2021	<0.00200	<0.00200	<0.00219	<0.00400	200	1,170
(NED0 #922)	11/08/2021	<0.00200	<0.00200	<0.00200	<0.00400	215	1,100
	03/02/2022	<0.00200	<0.00200	<0.00200	<0.00400	253	1,110
	05/24/2022	< 0.00200	<0.00200	<0.00200	<0.00400	200	1,100
	08/17/2022	< 0.00200	<0.00200	<0.00200	< 0.00400	239	1,080
	12/14/2022	<0.00200	<0.00200	<0.00200	< 0.00400	167	983
	03/10/2023	<0.00100	<0.00100	<0.00100	<0.00100	282	1,030
	06/05/2023	<0.00200	<0.00200	<0.00200	<0.00400	303	1,160
	09/08/2023	<0.00200	<0.00200	<0.00200	<0.00400	232	1,110
	12/28/2023	<0.00100	<0.00100	<0.00100	<0.0100	248	1,130
	03/18/2024	<0.00200	<0.00200	<0.00200	<0.00400	326	988
MW-3	07/29/2021	0.00407	<0.00200	<0.00200	<0.00400	128	663
(NEDU #929)	11/08/2021	<0.00200	<0.00200	<0.00200	<0.00400	122	644
	03/02/2022	<0.00200	<0.00200	<0.00200	< 0.00400	114	664
	05/24/2022	< 0.00200	<0.00200	<0.00200	< 0.00400	114	647
	08/17/2022	<0.00200	<0.00200	<0.00200	<0.00400	111	645 201
	12/14/2022	<0.00200	<0.00200	<0.00200	<0.00400	97.9	381
	03/10/2023	<0.00100	<0.00100	<0.00100	<0.00100	121	635
	06/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	121	778
	09/08/2023	<0.00200	<0.00200	<0.00200	<0.00400	117	708
	12/28/2023	<0.00200	<0.00200	<0.00200	<0.00400	124	700
	, _0, _020	0.00100	0.00100		0.0100	127	,
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Table 2 Groundwater Sample Analytical Data Summary Apache Corporation, NEDU Drill Pits Lea County, New Mexico

	03/18/2024	<0.00200	<0.00200	<0.00200	<0.00400	143	650
MW-4	07/30/2021	<0.00200	<0.00200	<0.00200	<0.00400	559	1,030
(NEDU #928)	11/08/2021	<0.00200	<0.00200	<0.00200	<0.00400	203	832
	03/02/2022	<0.00200	<0.00200	<0.00200	<0.00400	182	836
	05/24/2022	<0.00200	<0.00200	<0.00200	<0.00400	171	827
	08/17/2022	<0.00200	<0.00200	<0.00200	<0.00400	165	797
	12/14/2022	<0.00200	<0.00200	<0.00200	<0.00400	134	327
	03/10/2023	<0.00100	<0.00100	<0.00100	<0.00100	176	810
	06/05/2023	<0.00200	<0.00200	<0.00200	<0.00400	194	864
	09/08/2023	<0.00200	<0.00200	<0.00200	<0.00400	160	825
	12/28/2023	<0.00100	<0.00100	<0.00100	<0.0100	160	792
	03/18/2024	<0.00200	<0.00200	<0.00200	<0.00400	183	781
Dup-1 (MW-2)	07/29/2021	<0.00200	<0.00200	<0.00200	<0.00400	244	1,160
Dup-2 (MW-4)	07/30/2021	<0.00200	<0.00200	<0.00200	<0.00400	235	1,030
Dup-1 (MW-2)	11/08/2021	<0.00200	<0.00200	<0.00200	<0.00400	270	1,100
Dup-1 (MW-2)	03/02/2022	<0.00200	<0.00200	<0.00200	<0.00400	268	1,090
Dup-1 (MW-2)	05/24/2022	<0.00200	<0.00200	<0.00200	<0.00400	189	1,100
Dup-1 (MW-2)	08/17/2022	<0.00200	<0.00200	<0.00200	<0.00400	246	1,090
Dup-1 (MW-2)	12/14/2022	<0.00200	<0.00200	<0.00200	<0.00400	171	1,100
Dup-1 (MW-2)	03/10/2023	<0.00100	<0.00100	<0.00100	<0.00100	217	1,000
Dup-1 (MW-2)	06/05/2023	<0.00200	<0.00200	<0.00200	<0.00400	242	1,270
Dup-1 (MW-2)	09/08/2023	<0.00200	<0.00200	<0.00200	<0.00400	229	1,180
Dup-1 (MW-2)	12/28/2023	<0.00100	<0.00100	<0.00100	<0.0100	251	1,100
Dup-1 (MW-2)	03/18/2024	<0.00200	<0.00200	<0.00200	<0.00400	306	1,050

Notes:

Analysis performed by Eurofins Laboratories, Midland, Texas by EPA SW-846 Method 8021B (BTEX), Method 300 (chloride), and Method 2540C (TDS).

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

<: indicates parameter concentration is less than the analytical method reporting limit (RL).

*: NMWQCC human health standard

**: NMWQCC domestic water quality standard

bgs: below ground surface

Bold and higlighted indicates that parameter concentration is above NMWQCC limits.

Figures

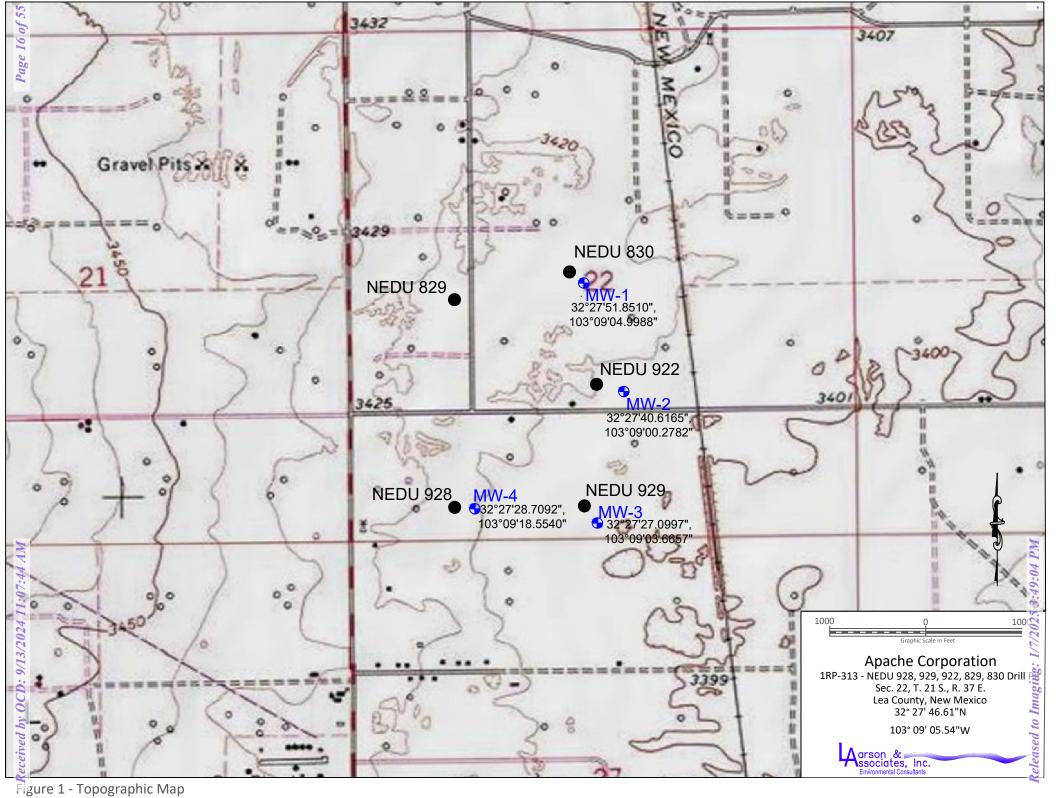


Figure 1 - Topographic Map

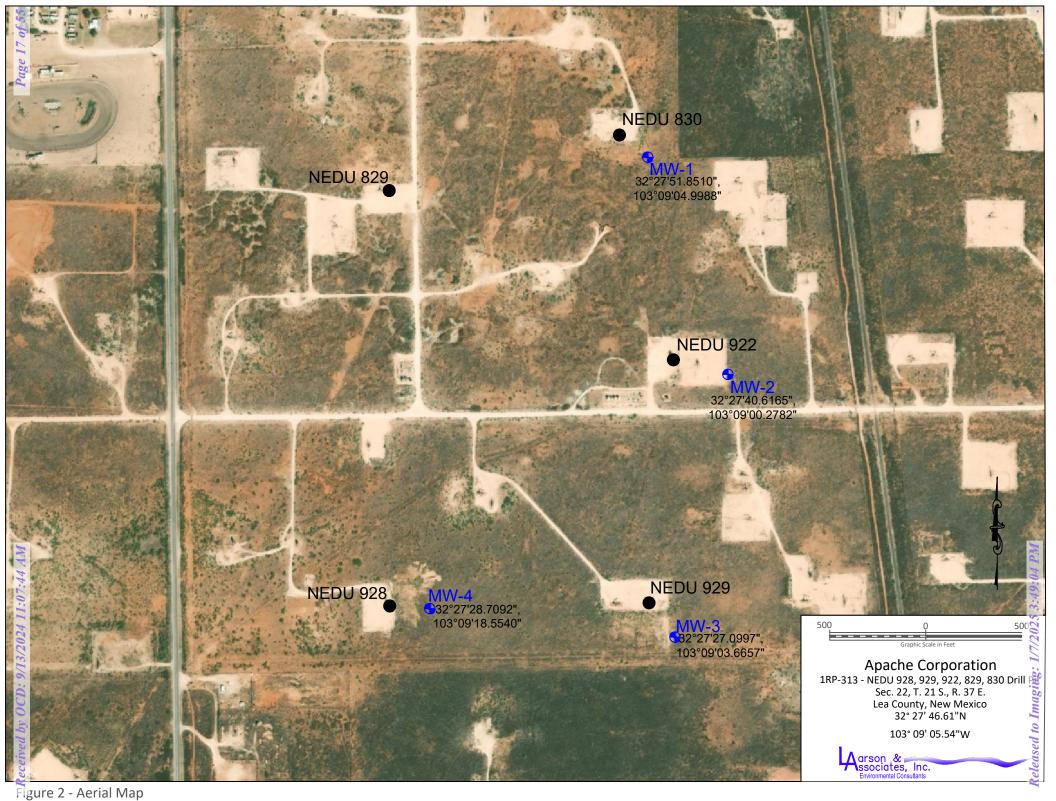
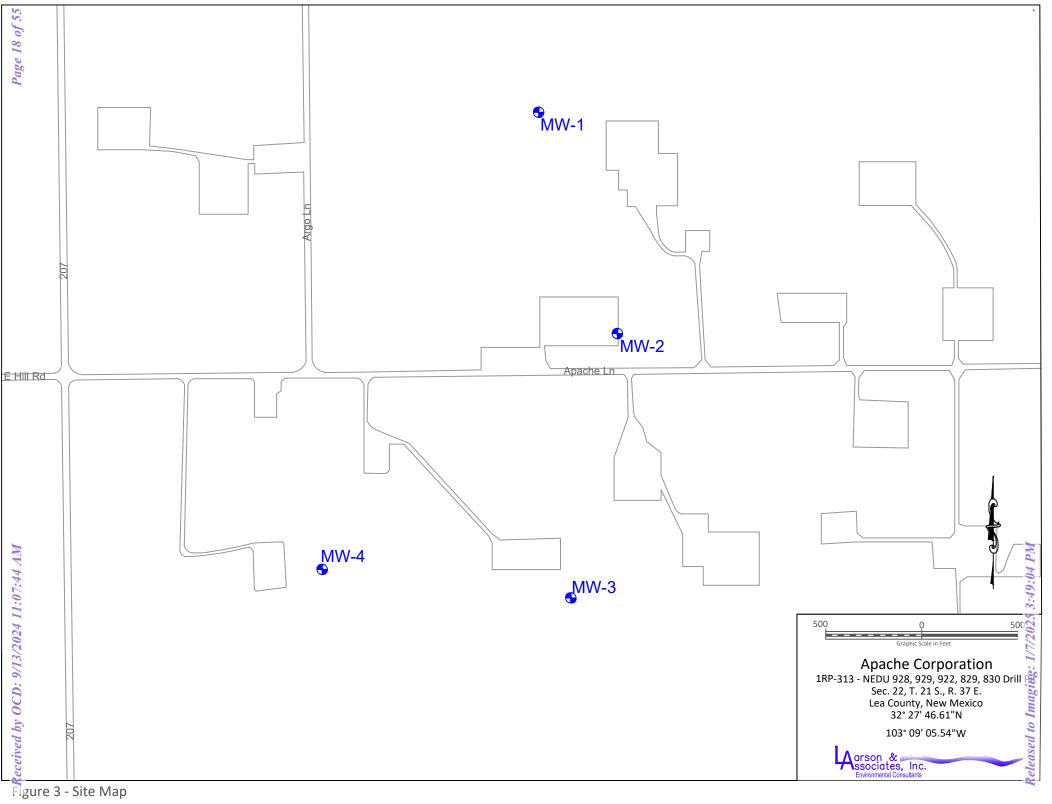


Figure 2 - Aerial Map



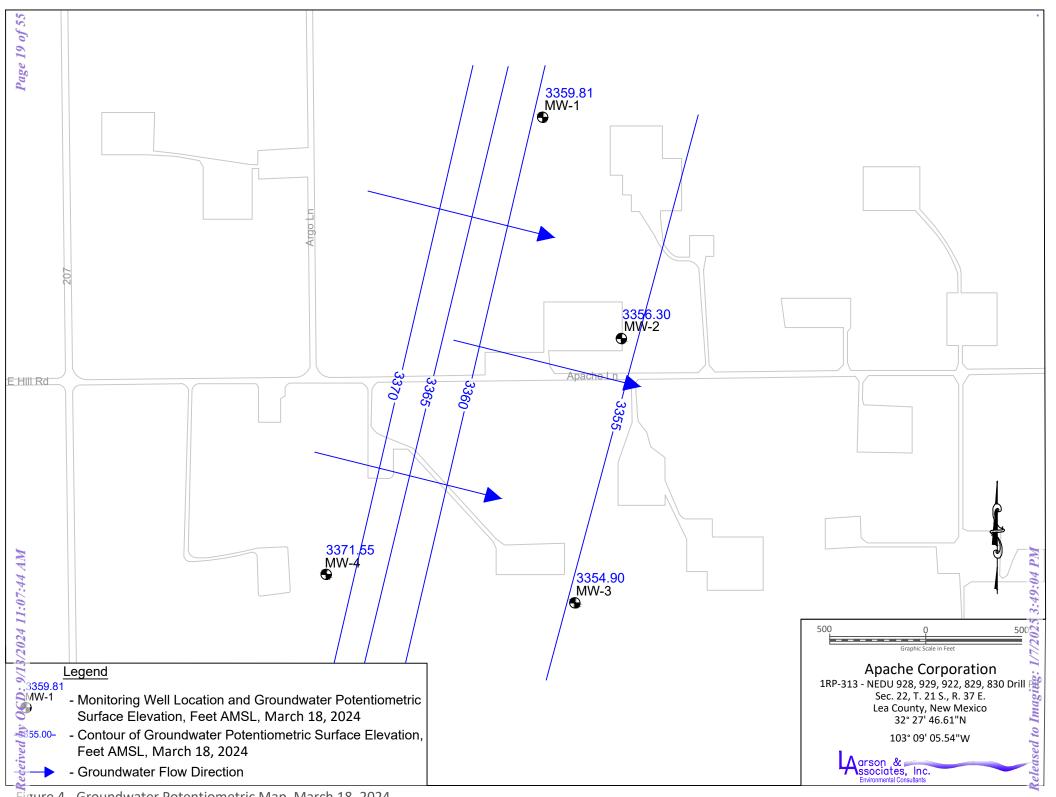


Figure 4 - Groundwater Potentiometric Map, March 18, 2024

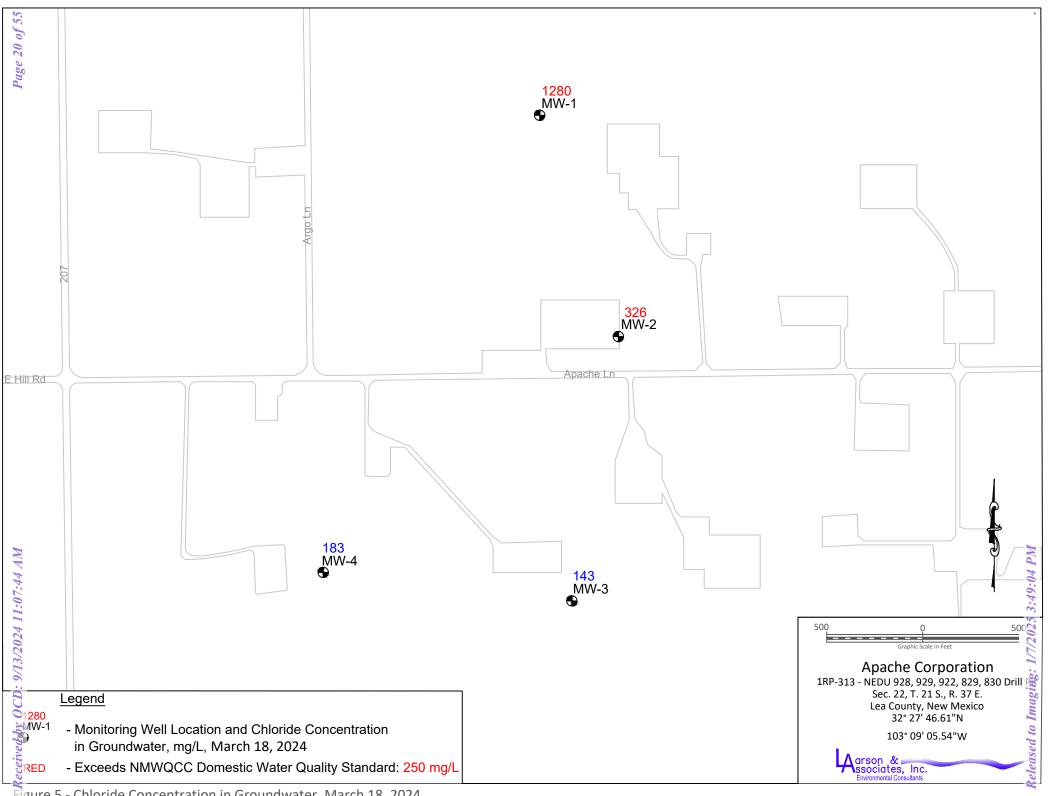


Figure 5 - Chloride Concentration in Groundwater, March 18, 2024

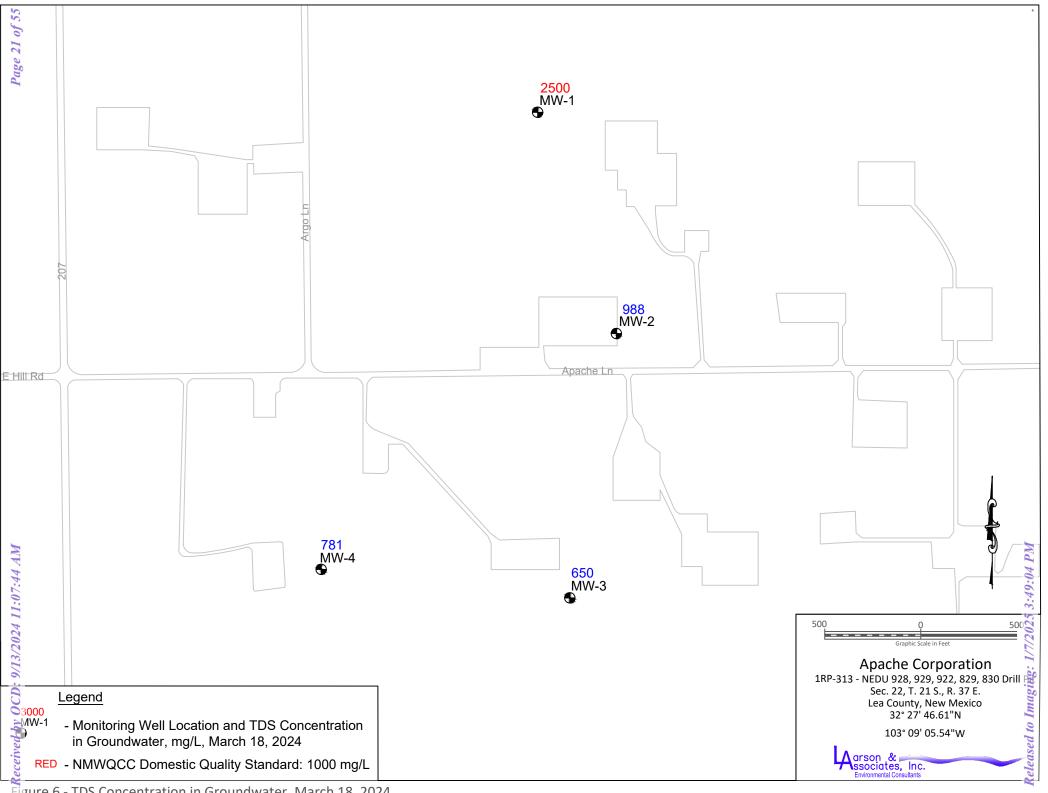


Figure 6 - TDS Concentration in Groundwater, March 18, 2024

.

Appendix A

NMOCD Communications

OCD Permitting

Home Operator Data

Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information Submission ID: 321154 **Districts:** Artesia **Operator:** [873] APACHE CORPORATION Counties: Eddy Description: **APACHE CORPORATION [873]** , NEDU 829 DRILL PIT , nRM2031146817 Status: APPROVED Status Date: 03/07/2024 fEEM0209352748, nRM2031146817 References (2):

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nRM2031146817
Incident Name	NRM2031146817 NEDU 829 DRILL PIT @ 0
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Facility	[fEEM0209352748] O D E C O INC
Location of Release Source	
Site Name	NEDU 829 DRILL PIT
Date Release Discovered	04/01/2001
Surface Owner	Private
Sampling Event General Information Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	5
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/18/2024
Time sampling will commence	01:00 PM
Warning: Notification can not be less than two business days prior to c	conducting final sampling.
Please provide any information necessary for observers to contact samplers	Robert Nelson 432-664-4804
Please provide any information necessary for navigation to sampling site	32.458022 -103.151450

Received by 20 CP: 9/13/2024 11:07:44 AM

OCD Permitting

.

Acknowledgments		
This submission type does r	not have acknowledgments, at this time.	
Comments		
No comments found for this	submission.	
Conditions		
Summary:	<i>Ibaker (3/7/2024),</i> Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15 accepted.	.29
Reasons		
No reasons found for this su	ubmission.	

Appendix B

Monitoring Well Completion Records

			BORING	RECORD		
		Start: 10:49 MST	DESCRIPTION USCS	.06	Surface Elevation: TOC Elecation:	REMARKS
GEOLOGIC	DEPTH	Finish: 12:37	RIPT	GRAPHIC LOG	Vented Cap	
UNIT		DESCRIPTION LITHOLOGIC	CI SCF	APF	Bentonite	
	0			В В В		
		Sand, 10YR 5/6, Yellowish	SW			
	5 —	Brown, Fine Grained Quartz Sand, Well Sorted, Dry				
	_	Silty Sand, 10YR 5/6, Yellowish	SM			
	40	Brown, Fine Grained Quartz	SIVI			
		Sand, Well Sorted, Dry				
		Sand, 7.5YR 7/6, Reddish Yellow, Fine Grained Quartz				
	15 _	Sand, Dry, Poorly Sorted				
	20					
	_					
	25 —	Sand, 7.5YR 7/6, Reddish	SW			
		Brown, Fine Grained Quartz				
		Sand, Dry, 4.75mm Clasts,				
	-	Poorly Sorted				
	35 —					
	55 -					
	40					
		Silty Sand, 7.5YR 8/6, Pink,				
		Well Sorted, Fine Grained				
		Quartz Sand, Dry 10 YR 7/6, Yellowish Brown,				
	_	Fine Grained Quartz Sand, Well				
		Sorted Dry				
		10 YR 7/6, Yellowish Brown, Moderately Sorted, 2mm				
	55 –	Quartz Clasts, Dry	SM		57.88 Graded Silica Sand	
57.88	-	Water Injected at 55'			to 2" Sch. 40	
Depth to Water	60 _				Water W PVC Threaded	
	-				0.0.0" Slotted	
	65 -				Screw	
	-					
	70 –				70.85 Cap	
		TD: 71.08'				
	75 –					
			BLE (TIMF		JOB NUMBER : 19-011	12-22/ Apache
		ENETRATION TEST			HOLE DIAMETER : 5'	
UN UN	DISTURBED				LOCATION :NEDU #83	
WA	ATER TABLE	. ,			LAI GEOLOGIST : R. Nel	
Aarson & ssociates, Ir Environmental Consultar	nc.	DRILL DATE : 07/19/2021	BORING I	NUMBER :	DRILLING CONTRACTOR DRILLING METHOD <u>· Air F</u>	

Received by OCD: 9/13/2024 11:07:44 AM

				BORING	RECOR				
		Start: 13	:17 MST	NO	ЭC	Surface Elevation: TOC Elecation:			REMARKS
	DEDTU	Finish: 14		DESCRIPTION USCS	GRAPHIC LOG	Vented Cap	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	E	BACKGROUND
GEOLOGIC UNIT	DEPTH			CRI USC	H	Riser	NEF VEF	그	PID READING
ONIT		DESC	CRIPTION LITHOLOGIC	DES	RAI	Bentonite	NUMBER RECOVERY	ЕРТ	SOIL :PPN SOIL :PPN
	0	Sand, 7.5	5YR 4/6, Strong Brown,		··. ·		ZR		
	=		ned Quartz Sand, Well						
	5 —	Sorted, D	Iry	SW					
	=								
			d, 7.5YR 7/4, Pink,						
			ned Quartz Sand,						
	15	Clasts 2n	ely Sorted, Dry, Quartz	SM					-
	=		6, Reddish Yellow, Fine						
	20 _		Quartz Sand,						-
			ly Sorted, Dry, Fine to						
			Quartz Clasts	l	· · · · ·				
	25 -		5YR 7/6, Reddish ine Grained Quartz						-
	-	Sand, Dr							
	30 —		, 6, Reddish Yellow, Fine	sw					
	_		Quartz Sand, Quartz		· ·.				
	35 —	Clasts							
	40	Silty San	d, 7.5YR 5/6, Strong		hilit				-
			ine Grained Quartz						
	45 –	Sand, We	ell Sorted, Dry						-
	_								
	50 -	7 5VD 5/	6, Strong Brown, Fine						
			Quartz Sand, Well						
	55 -		Dry, Quartz Clasts						
_			o Coarse Grained	SM		57.88 Graded Silica Sand			
57.88	=	Water Inj	ected at 55'			Depth-			
Depth to Water	60 -					Water PVC			
	=					Threaded 0.0.0"			
	65 -					Slotted Screw			
	_								
	70 -								
			TD: 71.86'		<u> ! .![!</u>	71.68 K Cap 71.86			
	75 -		10.71.00						
0	NE CONTINU	JOUS AUGER S		BLE (TIME	OF BORING)	12-2	22/	Apache
ST	ANDARD PI	ENETRATION T	EST LABORATO	RY TEST L	OCATION	HOLE DIAMETER : 5'			
UN	NDISTURBEI	D SAMPLE	+ PENETROM	IETER (TO	NS/ SQ. FT)	LOCATION :NEDU #9			
w	ATER TABLI	E(24 HRS)	NR NO RECOVI			LAI GEOLOGIST : R. N		n	
Aarson &	nc				NUMBER :	DRILLING CONTRACTOR			SDI
Environmental Consulta	ants	_	07/19/2021	MW	-2	DRILLING METHOD :Air	Rotar	ry	

					RECORD											
		Start: 13:	45	DESCRIPTION USCS	GRAPHIC LOG		PIC	R	EAD	ING		S/	AMP			
EOLOGIC	перти	Finish: 14	:50	CS	CL	Р	PM 2	Х				6	PID READING	RECOVERY		BACKGROUND
UNIT	DEFIN			U S C R	H	2	4 6) 12		18	NUMBER	EAD	NΕ	폰	PID READING
UNIT .		DESC	RIPTION LITHOLOGIC	ES	RA		ĨĨ	Ť					0 RE	00	Ы	
	0		Ded Fire Oreined		U		$\left \right $	_			_	ž	ШЩ	R	ö	13:50 13:54 13:58 14:03 14:10 14:13
	-		6, Red, Fine Grained													
			ich Sand, Very Well													
	5 —		Vell Rounded,									1			_	13:50
		Unconsol										1			5	
	-		in Depth Lithology													
			Same Color Changes	SM	· · ·											13:54
			7/3 to 7/4 Light									2			10	
		Reddish I	Brown at 13'													
	15															13:58
	-											3			15	
	20															14:03
												4			20	
	_	5YR 7/4.	Pink, Fine to Medium													
	_		Quartz Rich Sand,													14.10
	25		ly Sorted, Rounded to									5			25	14.10
	_	Sub Rour	•	'∣SM												
		oub i toui														44.40
	30 —											6			30	14:13
												ľ			00	
	35 —											7			35	14:20
												ľ			35	
		7.5YR 9/2	2, Pale Yellowish Pink													
			to Fine Grained	,											10	14:22
			rained Sand, Well									8			40	
			Vell Rounded to Sub													
	45	Rounded														14:25
			3, Reddish Yellow,		· · · ·							9			45	
Depth to	_		e to Fine Grained	CM												
Water:	50 —	•	and, Well Sorted, Wel	SM											50	14:30
5 <u>3.7</u> 1		Rounded		•								10			50	
	_	rtoundou														
	55 —											-			55	14:42
												11			55	
	60 —														60	14:44
												12			00	
	-															
	65 —				····							13		\vdash	65	14:50
			TD: 65.35'													
			······				OB N			R ·	-	l \n:	ach	ш е/1	9	0112-22
		JOUS AUGER S		ABLE (TIME	OF BORING	<i>'</i>						<u>.</u> pc		<u>5</u> "		
	ANDARD PE	ENETRATION T	EST LABORAT	ORY TEST I	OCATION		OLE									
	IDISTURBE	O SAMPLE	+ PENETRO	OMETER (TC	NS/ SQ. FT)		OCA [.]									
— w.	ATER TABLE	E(24 HRS)	NR NO RECO	VERY		L	ai ge	EOI	LOG	SIST	:	Т	. Ja	ck	so	n
aroon e			DRILL DATE :		NUMBER :		RILL									SDI
arson & ssociates, I Environmental Consult	nc		7/20/2021	M	N- 3		RILL								-	

	1			RECORD		1	
		Start: 9:35	NO	9 0	PID READING	SAMPLE	REMARKS
GEOLOGIC UNIT	DEPTH	Finish: 12:10 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PPM X	NUMBER PID READING RECOVERY DEPTH	BACKGROUND PID READING soil :
	0			В			SOIL :
Depth to Water: 41.05	10	Sand, 2.5YR 4/6, Red, Fine Grained Quart Sand, Very Well Sorted, Well Rounded, Unconsolidated, Quartz Rich Sand Sand, 2.5YR 7/4, Light Reddish Brown, Very Fine to Fine Grained Quartz Sand, Moderately Sorted, Sub Angular to Sub Rounded, with Depth Decrease in Grain Size and Becomes Well Sorted, Quartz Rich Sand 7.5YR 8/3, Pink, Fine to Medium Grained Quartz Sand, Sub Rounded to Sub Angular, Moderately Sorted, Quartz Rich Sand 7.5YR 6/4, Light Brown, Fine Grained Quartz Sand, Well Sorted, Rounded to Sub Rounded, with Depth Increase in Consolidation and Cementation, Quartz Rich Sand 7.5YR 7/4, Light Reddish Brown, Poorly Sorted, Fine to Coarse Grained Quartz Sand, Rounded to Angular, Very Consolidated with Red Sandstone Fragments in Cuttings, Quartz Rich Sand Introduced Water with Drilling	SM	GR Control of the second se		1 5 2 10 3 15 4 20 5 25 6 30 7 35 8 40	9:38 9:40 9:40 9:42 9:45 10:30
	70	TD: 76.01					
							0112.22
0	NE CONTINU	JOUS AUGER SAMPLER WATER TA	BLE (TIME	OF BORING)		Apache/ 19	-0112-22
ST	ANDARD PI		-	,	HOLE DIAMETER :	5"	
						DU 928	
				NS/ SQ. FT)			n
<u> </u>	ATER TABLI	E (24 HRS) NR NO RECOV	ERY		LAI GEOLOGIST :		
Aarson &		DRILL DATE :		NUMBER :	DRILLING CONTRAC	CTOR :	SDI
🗖 urauti 🔍 📂		7/20/2021		N-4	1		

Appendix C

Laboratory Report

Received by OCD: 9/13/2024 11:07:44 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson Larson & Associates, Inc. 507 N Marienfeld Suite 202 Midland, Texas 79701 Generated 3/27/2024 10:08:22 AM

JOB DESCRIPTION

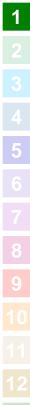
NEDU Pits 19-0112-22

JOB NUMBER

880-41045-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701







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 3/27/2024 10:08:22 AM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

	Definitions/Glossary	
Client: Larson Project/Site: N	& Associates, Inc. Job ID: 880-41045-1 EDU Pits SDG: 19-0112-22	2
Qualifiers		3
GC VOA Qualifier	Qualifier Description	4
F2	MS/MSD RPD exceeds control limits	
S1+	Surrogate recovery exceeds control limits, high biased.	5
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
General Chen	nistry	
Qualifier	Qualifier Description	8
U	Indicates the analyte was analyzed for but not detected.	
Glossary		9
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)	10
Dil Fac	Dilution Factor	13
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

MCL

MDA

MDC

MDL

MQL NC

ND NEG

POS

PQL PRES

QC

RER RL

RPD

TEF

TEQ

TNTC

ML MPN Limit of Quantitation (DoD/DOE)

Method Detection Limit Minimum Level (Dioxin)

Most Probable Number Method Quantitation Limit

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

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

Minimum Detectable Activity (Radiochemistry)

Eurofins Midland

Case Narrative

Client: Larson & Associates, Inc. Project: NEDU Pits

Job ID: 880-41045-1

Job ID: 880-41045-1

Eurofins Midland

Page 35 of 55

Job Narrative 880-41045-1

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 3/19/2024 9:38 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 1.9°C.

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for analytical batch 880-76529 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 880-76529 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

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.

Eurofins Midland

5

Job ID: 880-41045-1 SDG: 19-0112-22

Lab Sample ID: 880-41045-1

Client Sample ID: MW-1 Date Col Date Re

Client: Larson & Associates, Inc.

Project/Site: NEDU Pits

Date Collected: 03/18/24 13:45 Date Received: 03/19/24 09:38							Matrix	k: Wate
Method: SW846 8021B - Volatile C	Organic Comp	ounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<2.00	U	2.00	ug/L			03/25/24 19:59	
Toluene	<2.00	U	2.00	ug/L			03/25/24 19:59	
Ethylbenzene	<2.00	U	2.00	ug/L			03/25/24 19:59	
m,p-Xylenes	<4.00	U	4.00	ug/L			03/25/24 19:59	
o-Xylene	<2.00	U F2	2.00	ug/L			03/25/24 19:59	
Xylenes, Total	<4.00	U	4.00	ug/L			03/25/24 19:59	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	99		70 - 130		-		03/25/24 19:59	
1,4-Difluorobenzene (Surr)	104		70 - 130				03/25/24 19:59	
Method: TAL SOP Total BTEX - To	otal BTEX Cal	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00400	U	0.00400	mg/L			03/25/24 19:59	
Method: EPA 300.0 - Anions, Ion (Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1280		10.0	mg/L			03/20/24 19:53	20
				Ū				
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	<u> </u>	Prepared	Analyzed	Dil Fa
Total Dissolved Solids (SM 2540C)	2500		200	mg/L			03/19/24 18:00	
lient Sample ID: MW-2						Lab San	nple ID: 880-4	1045-2
ate Collected: 03/18/24 13:23							Matrix	k: Wate
ate Received: 03/19/24 09:38								
Method: SW846 8021B - Volatile C	Organic Comp	ounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<2.00	U	2.00	ug/L			03/25/24 20:19	
Toluene	<2.00	U	2.00	ug/L			03/25/24 20:19	

Toluene	<2.00	U	2.00	ug/L			03/25/24 20:19	1
Ethylbenzene	<2.00	U	2.00	ug/L			03/25/24 20:19	1
m,p-Xylenes	<4.00	U	4.00	ug/L			03/25/24 20:19	1
o-Xylene	<2.00	U	2.00	ug/L			03/25/24 20:19	1
Xylenes, Total	<4.00	U	4.00	ug/L			03/25/24 20:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	106		70 - 130		-		03/25/24 20:19	1
4-Bromofluorobenzene (Surr)	100							
4-вготопиоговелzене (Surr) 1,4-Difluorobenzene (Surr) 	107		70 - 130				03/25/24 20:19	1
	107	culation Qualifier	70 - 130 RL	Unit	D	Prepared	03/25/24 20:19 Analyzed	1 Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX	107	Qualifier		<mark>Unit</mark> mg/L	<u>D</u>	Prepared		1 1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte	107 • Total BTEX Calc • Result • <0.00400	Qualifier U	RL		<u> </u>	Prepared	Analyzed	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX	Total BTEX Calo Result <0.00400 on Chromatograp	Qualifier U	RL		D	Prepared	Analyzed	1 Dil Fac 1 Dil Fac

ocherar onennstry							
Analyte	Result Qual	ifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	988	50.0	mg/L			03/19/24 18:00	1

Eurofins Midland

Released to Imaging: 1/7/2025 3:49:04 PM

Job ID: 880-41045-1 SDG: 19-0112-22

Lab Sample ID: 880-41045-4

Matrix: Water

Client Sample ID: MW-3 Date Collected: 03/18/24 13:01

Client: Larson & Associates, Inc.

Project/Site: NEDU Pits

Date Received: 03/19/24 09:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<2.00	U	2.00	ug/L			03/25/24 20:40	1
Toluene	<2.00	U	2.00	ug/L			03/25/24 20:40	1
Ethylbenzene	<2.00	U	2.00	ug/L			03/25/24 20:40	1
m,p-Xylenes	<4.00	U	4.00	ug/L			03/25/24 20:40	1
o-Xylene	<2.00	U	2.00	ug/L			03/25/24 20:40	1
Xylenes, Total	<4.00	U	4.00	ug/L			03/25/24 20:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130		-		03/25/24 20:40	1
	107		70 - 130				03/25/24 20:40	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - To	otal BTEX Calo	culation Qualifier	70 - 130 RL	Unit	D	Prepared		1 Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - To Analyte	otal BTEX Calo	Qualifier		Unit mg/L	D	Prepared	03/25/24 20:40 Analyzed 03/25/24 20:40	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - To Analyte Total BTEX Method: EPA 300.0 - Anions, Ion Analyte	otal BTEX Calo Result <0.00400 Chromatograp Result	Qualifier U	RL 0.00400 RL	mg/L Unit	<u>D</u>	Prepared Prepared	Analyzed 03/25/24 20:40 Analyzed	1 Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - To Analyte Total BTEX Method: EPA 300.0 - Anions, Ion Analyte Chloride	otal BTEX Calo Result <0.00400 Chromatograp	Qualifier	RL	mg/L			Analyzed 03/25/24 20:40	1 Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - To Analyte Total BTEX Method: EPA 300.0 - Anions, Ion	Chromatograp Result Chromatograp Result 143	Qualifier	RL 0.00400 RL	mg/L Unit			Analyzed 03/25/24 20:40 Analyzed	1 Dil Fac 1 Dil Fac 5 Dil Fac

Client Sample ID: MW-4

Date Collected: 03/18/24 13:10

Date Received: 03/19/24 09:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<2.00	U	2.00	ug/L			03/25/24 21:01	1
Toluene	<2.00	U	2.00	ug/L			03/25/24 21:01	1
Ethylbenzene	<2.00	U	2.00	ug/L			03/25/24 21:01	1
m,p-Xylenes	<4.00	U	4.00	ug/L			03/25/24 21:01	1
o-Xylene	<2.00	U	2.00	ug/L			03/25/24 21:01	1
Xylenes, Total	<4.00	U	4.00	ug/L			03/25/24 21:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130		-		03/25/24 21:01	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/25/24 21:01	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/L			03/25/24 21:01	1
Method: EPA 300.0 - Anions, I	on Chromatograp	ohy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	183		2.50	mg/L			03/20/24 20:24	5
General Chemistry								
Aughter and a second		o	-		-	- ·		

Contra Chonnou y								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	781		50.0	mg/L			03/19/24 18:00	1

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Matrix: Water

5

Lab Sample ID: 880-41045-3

Released to Imaging: 1/7/2025 3:49:04 PM

Job ID: 880-41045-1 SDG: 19-0112-22

Matrix: Water

5

Lab Sample ID: 880-41045-5

Client Sample ID: Dup-1 Date Collected: 03/18/24 00:00 Date Received: 03/19/24 09:38

Client: Larson & Associates, Inc.

Project/Site: NEDU Pits

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<2.00	U	2.00	ug/L			03/25/24 21:22	1
Toluene	<2.00	U	2.00	ug/L			03/25/24 21:22	1
Ethylbenzene	<2.00	U	2.00	ug/L			03/25/24 21:22	1
m,p-Xylenes	<4.00	U	4.00	ug/L			03/25/24 21:22	1
p-Xylene	<2.00	U	2.00	ug/L			03/25/24 21:22	1
Xylenes, Total	<4.00	U	4.00	ug/L			03/25/24 21:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130		_		03/25/24 21:22	1
1,4-Difluorobenzene (Surr)	101		70 - 130				03/25/24 21:22	1
Method: TAL SOP Total BTEX - To	otal BTEX Calo	ulation						
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX - To Analyte Total BTEX		Qualifier	RL 0.00400	Unit mg/L	<u>D</u>	Prepared	Analyzed 03/25/24 21:22	Dil Fac
Analyte Total BTEX	Result <0.00400	Qualifier U			<u>D</u>	Prepared	·	
Analyte Total BTEX Method: EPA 300.0 - Anions, Ion	Chromatograp	Qualifier U			<u>D</u>	Prepared	·	
Analyte Total BTEX Method: EPA 300.0 - Anions, Ion Analyte	Chromatograp	Qualifier	0.00400	mg/L			03/25/24 21:22	1
Analyte Total BTEX Method: EPA 300.0 - Anions, Ion Analyte Chloride	Chromatograp Result	Qualifier	0.00400 RL	mg/L Unit			03/25/24 21:22 Analyzed	1 Dil Fac
Analyte	Chromatograp Result Result 306	Qualifier	0.00400 RL	mg/L Unit			03/25/24 21:22 Analyzed	1 Dil Fac

Eurofins Midland

Released to Imaging: 1/7/2025 3:49:04 PM

Client: Larson & Associates, Inc. Project/Site: NEDU Pits

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Water

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
mple ID	Client Sample ID	(70-130)	(70-130)	
45-1	MW-1	99	104	
45-1 MS	MW-1	93	89	
1045-1 MSD	MW-1	104	95	
045-2	MW-2	106	107	
045-3	MW-3	107	107	
045-4	MW-4	92	105	
45-5	Dup-1	102	101	
30-76529/3	Lab Control Sample	91	93	
880-76529/4	Lab Control Sample Dup	90	101	
80-76529/8	Method Blank	166 S1+	129	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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Job ID: 880-41045-1
SDG: 19-0112-22

Prep Type: Total/NA

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Job ID: 880-41045-1 SDG: 19-0112-22	

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

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Lab Sample ID: MB 880-76529/8 Matrix: Water

Analysis Batch: 76529

	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<2.00	U	2.00	ug/L			03/25/24 19:30	1
Toluene	<2.00	U	2.00	ug/L			03/25/24 19:30	1
Ethylbenzene	<2.00	U	2.00	ug/L			03/25/24 19:30	1
m,p-Xylenes	<4.00	U	4.00	ug/L			03/25/24 19:30	1
o-Xylene	<2.00	U	2.00	ug/L			03/25/24 19:30	1
Xylenes, Total	<4.00	U	4.00	ug/L			03/25/24 19:30	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	166	S1+	70 - 130		-		03/25/24 19:30	1
1,4-Difluorobenzene (Surr)	129		70 - 130				03/25/24 19:30	1

Lab Sample ID: LCS 880-76529/3

Matrix: Water Analysis Batch: 76529

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	100	109.0		ug/L		109	70 - 130	
Toluene	100	104.8		ug/L		105	70 - 130	
Ethylbenzene	100	106.8		ug/L		107	70 - 130	
m,p-Xylenes	200	209.7		ug/L		105	70 - 130	
o-Xylene	100	102.5		ug/L		102	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-76529/4

Matrix: Water

Analysis Batch:	76529

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	100	115.1		ug/L		115	70 - 130	5	20
Toluene	100	108.7		ug/L		109	70 - 130	4	20
Ethylbenzene	100	110.4		ug/L		110	70 - 130	3	20
m,p-Xylenes	200	210.5		ug/L		105	70 - 130	0	20
o-Xylene	100	101.0		ug/L		101	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-41045-1 MS

Matrix: Water Analysis Bataby 76520

Analysis Batch: 76529										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<2.00	U	100	98.45		ug/L		98	70 - 130	-
Toluene	<2.00	U	100	96.14		ug/L		96	70 - 130	

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Client Sample ID: MW-1

Prep Type: Total/NA

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QC Sample Results

Client: Larson & Associates, Inc. Project/Site: NEDU Pits

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

Lab Sample ID: 880-41045-1 MS									Client San		
Matrix: Water									Prep 1	Type: To	tal/NA
Analysis Batch: 76529											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		O %Rec	Limits		
Ethylbenzene	<2.00	U	100	95.46		ug/L		95	70 - 130		
m,p-Xylenes	<4.00	U	200	194.1		ug/L		97	70 - 130		
o-Xylene	<2.00	U F2	100	93.13		ug/L		93	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	93		70 - 130	-							
1,4-Difluorobenzene (Surr)	89		70 - 130								
Lab Campia ID: 990 44045 4 MCI									Client Con		B.43.67
Lab Sample ID: 880-41045-1 MSI Matrix: Water	,								Client San	-	
									Prep	Type: To	
Analysis Batch: 76529	Sample	Sample	Spike	MSD	MSD				%Rec		RPI
Analyte		Qualifier	Added		Qualifier	Unit		D %Rec	Limits	RPD	Lim
Benzene	<2.00		100	107.4		ug/L	=	107	70 - 130	9	2
Toluene	<2.00		100	104.0		ug/L		104	70 - 130	8	2
Ethylbenzene	<2.00		100	107.8		ug/L		108	70 - 130	12	2
m,p-Xylenes	<4.00		200	243.9		ug/L		122	70 - 130	23	2
p-Xylene	<2.00		100	121.5	F2	ug/L		122	70 - 130	26	2
_	MSD										
Surrogate	%Recovery	Qualifier	Limits	_							
4-Bromofluorobenzene (Surr)	104		70 - 130								
1,4-Difluorobenzene (Surr)	95		70 _ 130								
lethod: 300.0 - Anions, Ion	Chromat	ography									
Lab Sample ID: MB 880-76126/3								Client	Sample ID:		
Matrix: Water									Prep 1	Type: To	tal/N/
Analysis Batch: 76126											
		MB MB					_	_			
Analyte		esult Qualifie	r	RL	Unit		_ <u>D</u>	Prepared	Analyz		Dil Fa
Chloride	<(0.500 U		0.500	mg/L	•			03/20/24	19:10	
Lab Sample ID: LCS 880-76126/4							Clie	nt Sample	e ID: Lab Co	ontrol S	ampl
Matrix: Water								•		Type: To	
Analysis Batch: 76126											
			Spike		LCS				%Rec		

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	25.0	24.61		mg/L		98	90 - 110		
Lab Sample ID: LCSD 880-76126/5 Matrix: Water Analysis Batch: 76126				Clie	nt Sam	ple ID:	Lab Contro Prep ⁻	ol Sampl Type: To	
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	25.0	24.59		mg/L		98	90 - 110	0	20

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Job ID: 880-41045-1 SDG: 19-0112-22

Job ID: 880-41045-1

QC Sample Results

Client: Larson & Associates, Inc. Project/Site: NEDU Pits

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 880-76041/1 Matrix: Water									Client S	Sample ID: Prep		d Blank otal/NA
Analysis Batch: 76041	МВ	МВ										
Analyte	Result	Qualifier		RL		Unit		D	Prepared	Analy	zed	Dil Fac
Total Dissolved Solids	<25.0	U		25.0		mg/L				03/19/24	18:00	1
Lab Sample ID: LCS 880-76041/2								Clie	nt Sample	e ID: Lab C		
Matrix: Water										Prep	Type: To	otal/NA
Analysis Batch: 76041												
			Spike		LCS	LCS				%Rec		
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits		
Total Dissolved Solids			1000		983.0		mg/L		98	80 - 120		
Lab Sample ID: LCSD 880-76041/3							CI	ient Sa	mple ID:	Lab Contro	ol Samp	ole Dup
Matrix: Water												otal/NA
Analysis Batch: 76041												
			Spike		LCSD	LCSD				%Rec		RPD
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Total Dissolved Solids			1000		1020		mg/L		102	80 - 120	4	10

QC Association Summary

Client: Larson & Associates, Inc. Project/Site: NEDU Pits

Job ID: 880-41045-1

SDG: 19-0112-22

GC VOA

Analysis Batch: 76529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-41045-1	MW-1	Total/NA	Water	8021B	
880-41045-2	MW-2	Total/NA	Water	8021B	
880-41045-3	MW-3	Total/NA	Water	8021B	
880-41045-4	MW-4	Total/NA	Water	8021B	
880-41045-5	Dup-1	Total/NA	Water	8021B	
MB 880-76529/8	Method Blank	Total/NA	Water	8021B	
LCS 880-76529/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-76529/4	Lab Control Sample Dup	Total/NA	Water	8021B	
880-41045-1 MS	MW-1	Total/NA	Water	8021B	
880-41045-1 MSD	MW-1	Total/NA	Water	8021B	

Analysis Batch: 76619

	Lab Control Sample					
LCSD 880-76529/4	Lab Control Sample Dup	Total/NA	Water	8021B		8
880-41045-1 MS	MW-1	Total/NA	Water	8021B		
880-41045-1 MSD	MW-1	Total/NA	Water	8021B		9
nalysis Batch: 766	19					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
Lab Sample ID 880-41045-1	Client Sample ID MW-1	Total/NA	Water	Total BTEX	Prep Batch	
					Prep Batch	
880-41045-1	MW-1	Total/NA	Water	Total BTEX	Prep Batch	
880-41045-1 880-41045-2	MW-1 MW-2	Total/NA Total/NA	Water Water	Total BTEX Total BTEX	Prep Batch	

HPLC/IC

Analysis Batch: 76126

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-41045-1	MW-1	Total/NA	Water	300.0	
880-41045-2	MW-2	Total/NA	Water	300.0	
880-41045-3	MW-3	Total/NA	Water	300.0	
880-41045-4	MW-4	Total/NA	Water	300.0	
880-41045-5	Dup-1	Total/NA	Water	300.0	
MB 880-76126/3	Method Blank	Total/NA	Water	300.0	
LCS 880-76126/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-76126/5	Lab Control Sample Dup	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 76041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-41045-1	MW-1	Total/NA	Water	SM 2540C	
880-41045-2	MW-2	Total/NA	Water	SM 2540C	
880-41045-3	MW-3	Total/NA	Water	SM 2540C	
880-41045-4	MW-4	Total/NA	Water	SM 2540C	
880-41045-5	Dup-1	Total/NA	Water	SM 2540C	
MB 880-76041/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 880-76041/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 880-76041/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

5

Client Sample ID: MW-1 Date Collected: 03/18/24 13:45

Date Received: 03/19/24 09:38

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	76529	03/25/24 19:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76619	03/25/24 19:59	SM	EET MID
Total/NA	Analysis	300.0		20	10 mL	10 mL	76126	03/20/24 19:53	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	76041	03/19/24 18:00	SMC	EET MID

Client Sample ID: MW-2 Date Collected: 03/18/24 13:23 Date Received: 03/19/24 09:38

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	76529	03/25/24 20:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76619	03/25/24 20:19	SM	EET MID
Total/NA	Analysis	300.0		10	10 mL	10 mL	76126	03/20/24 19:59	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	76041	03/19/24 18:00	SMC	EET MID

Client Sample ID: MW-3 Date Collected: 03/18/24 13:01 Date Received: 03/19/24 09:38

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	76529	03/25/24 20:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76619	03/25/24 20:40	SM	EET MID
Total/NA	Analysis	300.0		5	10 mL	10 mL	76126	03/20/24 20:05	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	76041	03/19/24 18:00	SMC	EET MID

Client Sample ID: MW-4

Date Collected: 03/18/24 13:10 Date Received: 03/19/24 09:38

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	76529	03/25/24 21:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76619	03/25/24 21:01	SM	EET MID
Total/NA	Analysis	300.0		5	10 mL	10 mL	76126	03/20/24 20:24	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	76041	03/19/24 18:00	SMC	EET MID

Client Sample ID: Dup-1 Date Collected: 03/18/24 00:00

Date Received: 03/19/24 09:38

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	76529	03/25/24 21:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76619	03/25/24 21:22	SM	EET MID
Total/NA	Analysis	300.0		10	10 mL	10 mL	76126	03/20/24 20:30	SMC	EET MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	76041	03/19/24 18:00	SMC	EET MID

Eurofins Midland

Job ID: 880-41045-1 SDG: 19-0112-22

Lab Sample ID: 880-41045-1 Matrix: Water

Matrix: Water

Lab Sample ID: 880-41045-3

Lab Sample ID: 880-41045-4

Lab Sample ID: 880-41045-5

Matrix: Water

Matrix: Water

Matrix: Water

Lab Chronicle

Client: Larson & Associates, Inc. Project/Site: NEDU Pits

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

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Laboratory: Eurofins Midland

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

Authority	Progra	Program		Expiration Date
Texas	NELAP		T104704400-23-26	06-30-24
ι,	es are included in this report, but does not offer certification.	the laboratory is not certif	ed by the governing authority. This lis	t may include analytes
5,				
Analysis Method	Prep Method	Matrix	Analyte	

Method Summary

Client: Larson & Associates, Inc. Project/Site: NEDU Pits

Job ID: 880-41045-1 SDG: 19-0112-22

lethod	Method Description	Protocol	Laboratory
021B	Volatile Organic Compounds (GC)	SW846	EET MID
otal BTEX	Total BTEX Calculation	TAL SOP	EET MID
0.00	Anions, Ion Chromatography	EPA	EET MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET MID
030B	Purge and Trap	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 MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

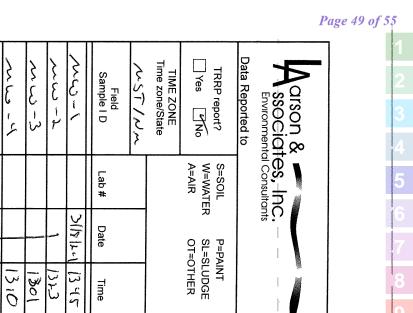
Sample Summary

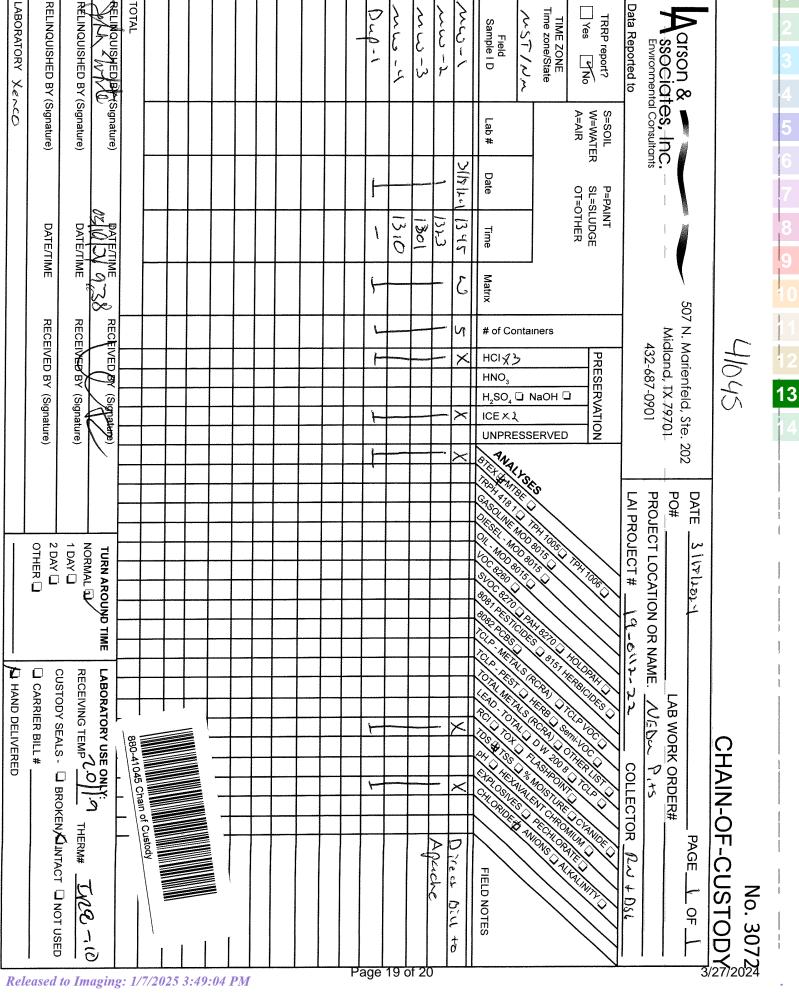
Job ID: 880-41045-1
SDG: 19-0112-22

		Sample Sun	nmary			
Client: Larson & Project/Site: NE	& Associates, Inc. EDU Pits				Job ID: 880-41045-1 SDG: 19-0112-22	2
Lab Sample ID	Client Sample ID	Matrix	Collected	Received		
380-41045-1	MW-1	Water	03/18/24 13:45	03/19/24 09:38		
80-41045-2	MW-2	Water	03/18/24 13:23	03/19/24 09:38		
80-41045-3	MW-3	Water	03/18/24 13:01	03/19/24 09:38		5
380-41045-4	MW-4	Water	03/18/24 13:10	03/19/24 09:38		
880-41045-5	Dup-1	Water	03/18/24 00:00	03/19/24 09:38		
						8
						ç
						1
						1

Received by OCD: 9/13/2024 11:07:44 AM

TOTAL





Dup-1

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Login Number: 41045 List Number: 1 Creator: Wheeler, Jazmine

<6mm (1/4").

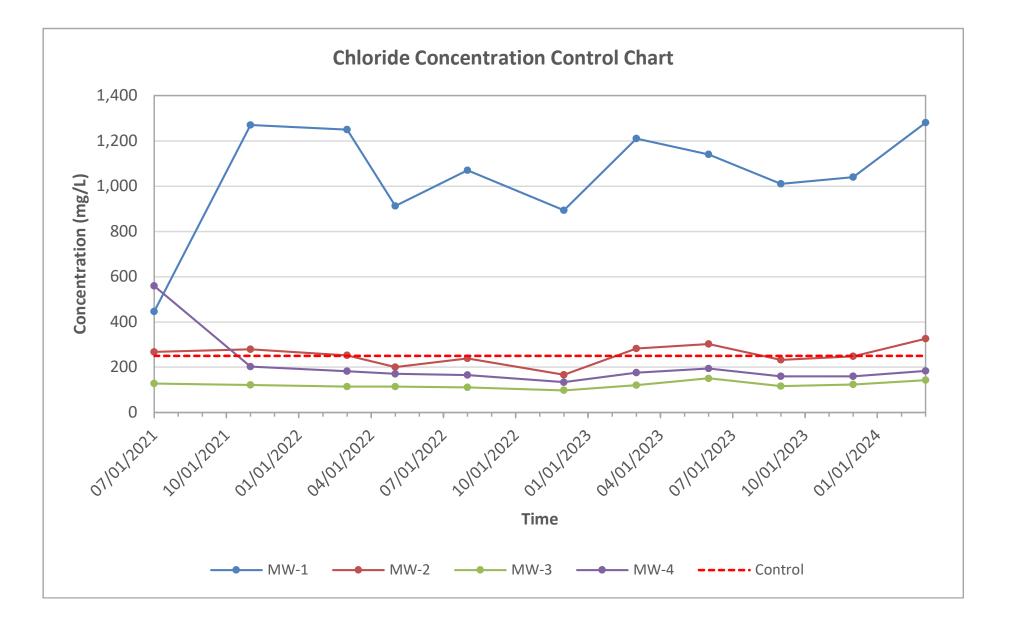
Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature 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	True	

Job Number: 880-41045-1 SDG Number: 19-0112-22 List Source: Eurofins Midland 5 6 7 8 9 10 11 12 13

14

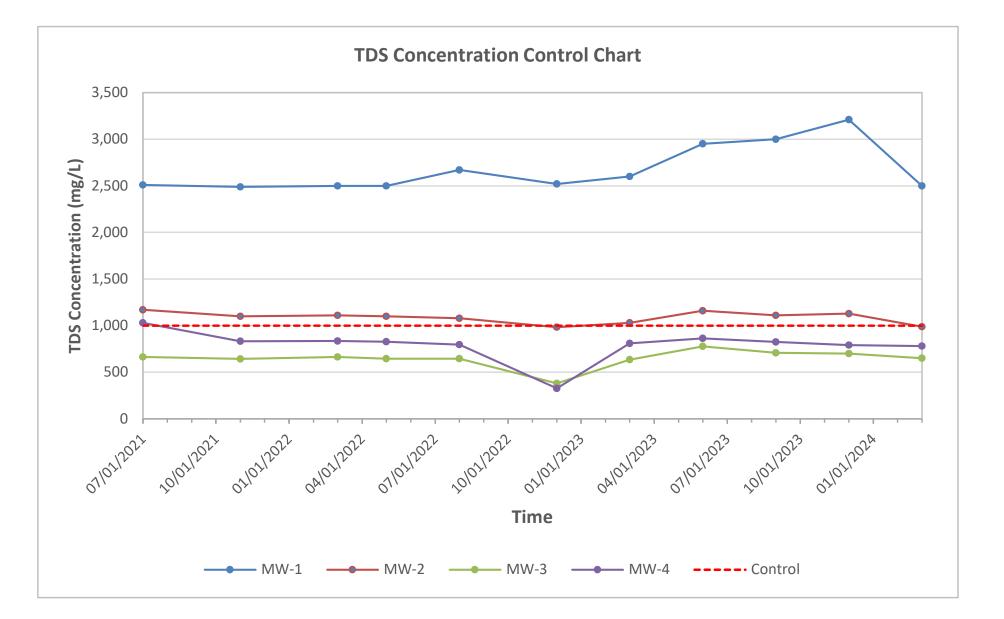
Appendix D

Chloride Control Chart



Appendix E

TDS Control Chart



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

General Information Phone: (505) 629-6116

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

State of New Mexico Energy, Minerals and Natural Resources Santa Fe, NM 87505

Oil Conservation Division	
1220 S. St Francis Dr.	

			•				

CONDITIONS						
Operator:	OGRID:					
APACHE CORPORATION	873					
303 Veterans Airpark Ln	Action Number:					
Midland, TX 79705	383408					
	Action Type:					
	[UE-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)					

CONDITIONS		
Created By	Condition	Condition Date
michael.buchanan	Review of the 2024 First Quarter Groundwater Monitoring Report Northeast Drinkard Unit #829, 830, 922, 928, and 929. Content is satisfactory 1. Continue to conduct groundwater monitoring on a quarterly calendar schedule. 2. Gauge each well as prescribed herein. 3. Please provide four (4) days prior to conducting sampling events. 4. If wells continue to remain dry and without sufficient volume to sample, propose a contingency plan to OCD or propose to drill deeper wells to collect enough volume. 5. Submit the 2025 monitoring reports no later than April 1, 2026.	1/7/2025

Action 383408

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