



Jason Michelson
Operations Lead, Portfolio Operations Central

January 27, 2026

New Mexico Oil Conservation Division – District I
1625 N. French Drive
Hobbs, New Mexico 88240

**Re: Former New Mexico “F” State Tank Battery
2025 Annual Groundwater Monitoring Report
Lea County, New Mexico
Incident No. nAUTOfAB000420
Case No. 1RP-258**

To whom it may concern:

Chevron Environmental Management Company (CEMC) submits herein the *2025 Annual Groundwater Monitoring Report* for the Former New Mexico “F” State Tank Battery (Site). The Site is located approximately three miles northwest of Monument, in Unit I, Section 24, Township 19 South, Range 36 East, Lea County, New Mexico. The Report was prepared by Arcadis U.S., Inc. (Arcadis), on behalf of CEMC to document on-going groundwater monitoring and remediation activities throughout 2025 at the Site.

If you have any questions regarding this submittal, please contact either Morgan Jordan with Arcadis by phone at 281 644 9437 or by email at douglas.jordan@arcadis.com or myself at (832) 854-5601 or by email at jmichelson@chevron.com.

Respectfully,

Jason Michelson

A handwritten signature in black ink that reads "Jason Michelson".

Encl. Former New Mexico “F” State Tank Battery - 2025 Annual Groundwater Monitoring Report

cc. Morgan Jordan – Arcadis, douglas.jordan@arcadis.com

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Chevron Environmental Management Company

2025 Annual Groundwater Monitoring Report

Former New Mexico “F” State Tank Battery

Lea County, New Mexico

Incident No. nAUTOfAB000420

Case No. 1RP-258

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2025 Annual Groundwater Monitoring Report
Former New Mexico "F" State Tank Battery

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Lea County, New Mexico
Incident No. nAUTOfAB000420
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January 27, 2026

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2025 Annual Groundwater Monitoring Report
Former New Mexico “F” State Tank Battery

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2025 Annual Groundwater Monitoring Report
Former New Mexico "F" State Tank Battery

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this report for Chevron Environmental Management Company (CEMC), which summarizes 2025 groundwater monitoring activities at the Former New Mexico "F" State Tank Battery (Site).

The Site is located on Lea County Road 41 (Maddox Road), approximately three miles northwest of Monument, New Mexico in Unit I, Section 24, Township 19 South, Range 36 East, Lea County, New Mexico at coordinates 32.643018, -103.301158.

A Site Location Map is presented as **Figure 1**. A Site Details Map is presented as **Figure 2**. Additional Site background information is presented in **Appendix A**.

A Groundwater Monitoring and Light Non-aqueous Phase Liquid (LNAPL) Operation and Maintenance (O&M) Reduction Workplan (Reduction Workplan) was submitted to the New Mexico Oil Conservation Division (NMOCD) in July 2020 and approved by the NMOCD on February 25, 2025, which included:

- One semi-annual monitoring event (full Site) consisting of sampling and gauging of all Site wells (seven monitoring wells and four recovery wells).
- A second semi-annual sampling event consisting of sampling monitoring wells MW-6, RW-2, and RW-3 only.
- Two additional groundwater gauging and sampling events conducted during the first and third quarters of a calendar year consisting of sampling of sentry well MW-6 to ensure the dissolved-phase plume is not migrating southwest towards the off-site water wells (WW-1 and WW-2).

Site monitoring wells with chemicals of concern (COC) concentrations reported below New Mexico Water Quality Control Commission (NMWQCC) exceedance standards for two consecutive years or longer were not gauged or sampled during the second semi-annual monitoring event except for sentry well MW-6. Additionally, the frequency of LNAPL gauging and hand-bailing activities were reduced from bi-weekly to quarterly gauging only (no hand-bailing) for one year (through August 2021) to allow LNAPL conditions at the Site to equilibrate so that a more practical/efficient LNAPL recovery method could be evaluated.

Quarterly gauging only (no hand-bailing) was initiated in July 2020 and conducted through August 2021. Monthly LNAPL gauging and hand-bailing was re-initiated in September 2021 and conducted through May 2022. In May 2022, LNAPL skimmer pumps were re-installed in recovery wells (RW-1 and RW-4) and bi-weekly operation and maintenance (O&M) activities were re-initiated and are currently in operation.

The Reduction Workplan approved by the NMOCD is presented in **Appendix B**. Activities at the Site have been conducted in accordance with the Workplan since its submitting.

2 Groundwater Monitoring Results

The Site is currently monitored with a network of seven monitoring wells and four recovery wells. Arcadis performed semi-annual groundwater sampling events on June 11, 2025, and November 14, 2025. Sentry well MW-6 was additionally sampled on March 18, 2025, and August 27, 2025. Field monitoring methodologies are detailed in **Appendix C**.

2025 Annual Groundwater Monitoring Report
Former New Mexico "F" State Tank Battery

2.1 Groundwater Gauging Data

Site-wide gauging was conducted during the first and second semi-annual groundwater sampling events and the two additional sampling events at sentry well MW-6.

Groundwater and LNAPL measurements collected during the quarterly monitoring events conducted in 2025 indicated:

- Groundwater elevations ranged from:
 - 3,636.27 feet above mean sea level (ft AMSL) (MW-4) to 3,640.11 ft AMSL (RW-1) during the March 2025 event,
 - 3,636.32 ft AMSL (MW-7) to 3,639.56 ft AMSL (RW-1) during the June 2025 event,
 - 3,636.32 ft AMSL (MW-7) to 3,639.62 ft AMSL (RW-1) during the August 2025 event, and
 - 3,636.23 ft AMSL (MW-7) to 3,639.47 ft AMSL (RW-1) during the November 2025 event.
- The groundwater elevations observed during 2025 appear to be consistent with historical levels, with groundwater flow generally to the southeast.
- The calculated gradients were:
 - 0.0100 ft/ft for the March 2025 gauging event,
 - 0.0149 ft/ft for the June 2025 gauging event,
 - 0.0125 ft/ft for the August 2025 gauging event, and
 - 0.0122 ft/ft for the November 2025 gauging event.

Groundwater elevation data for the sampling events is presented in **Table 1**. Groundwater potentiometric surface maps for March, June, August, and November 2025 are presented in **Figure 3**. A cumulative summary of groundwater potentiometric elevation data is presented in **Appendix D**.

2.2 LNAPL Occurrence and Recovery

LNAPL was present in two recovery wells (RW-1 and RW-4) during the 2025 monitoring events.

The range of LNAPL thicknesses gauged in 2025 during bi-weekly O&M activities were:

- 0.21 feet to 4.62 feet in RW-1, and
- 0.49 feet to 3.80 feet in RW-4.

Due to the ongoing recovery system operation and bi-weekly bailing of recovery wells, RW-2 and RW-3 did not contain LNAPL during the 2025 monitoring period. LNAPL thicknesses gauged in 2025 are included in **Table 1** with historical data in **Appendix D**. The distribution and extent of LNAPL during the 2025 quarterly monitoring events are presented in **Figure 3**.

2.2.1 LNAPL Recovery

- The amount of LNAPL/water mixture recovered via the skimmer system during its installation from November 2006 through March 2017 was approximately 3,315 gallons.
- The cumulative amount of LNAPL recovered (including vapors) during the fifteen mobile dual phase extraction (MDPE) events conducted from 2011 through 2015 was 1,539 gallons.
- The amount recovered by hand bailing from April 2017 through 2021 was approximately 136 gallons.

2025 Annual Groundwater Monitoring Report Former New Mexico "F" State Tank Battery

- The amount recovered after re-installation of the skimmer system in 2022 through 2024 was approximately 1,127 gallons.
- Approximately 570 gallons of LNAPL/water mixture were recovered via skimmer system and hand bailing in 2025.
- Collectively, an approximate total of 6,687 gallons of LNAPL/water mixture have been recovered and removed from the Site since 2006.

2.3 Groundwater Analytical Results

Seven monitoring wells and two recovery wells were sampled at the site during the 2025 sampling period. Groundwater analytical results for benzene, toluene, ethylbenzene, xylenes (BTEX) and chloride were compared to the NMWQCC Groundwater Standards. A summary of the groundwater sample analytical results is presented in **Table 2**.

Cumulative summary tables of potentiometric elevation data and groundwater analytical results are presented in **Appendices D** and **E**, respectively. Copies of the certified analytical reports and chain-of-custody documentation from Pace Analytical are provided in **Appendix F**.

BTEX and chloride sample results for the 2025 groundwater monitoring period are presented on **Figure 4**. The groundwater analytical results are further summarized below.

2.3.1 BTEX

- BTEX constituents did not exceed the NMWQCC standards during the 2025 monitoring period.

2.3.2 Chloride

- Chloride concentrations did not exceed the NMWQCC standard of 250 milligrams per liter (mg/L) during the 2025 monitoring period.

Due to the ongoing recovery system operation and bi-weekly bailing of recovery wells, RW-2 and RW-3 did not contain LNAPL during the 2025 sampling events and samples were collected. Additionally, results were below the NMWQCC standards.

3 2026 Planned Activities

- LNAPL skimmer pump operations in recovery wells (RW-1 and RW-4) and bi-weekly operation and maintenance (O&M) activities are planned to be continued in 2026.
- Semi-annual groundwater sampling events are scheduled for the second and fourth quarters of 2026 in accordance with the Reduction Workplan. Sentry well MW-6 will continue to be gauged and sampled on a quarterly schedule to ensure that the plume is not migrating southwest toward the off-site water wells.

Tables



Table 1
 2025 Summary of Groundwater Gauging Data
 Chevron Environmental Management Company
 Former New Mexico "F" State Tank Battery
 Lea County, New Mexico

Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ¹)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ⁴)
MW-3 3696.85	3/18/25	58.99	---	---	3637.86	---	2	55 - 75
	6/11/25	59.16	---	---	3637.69	---		
	8/27/25	59.30	---	---	3637.55	---		
	11/14/25	59.45	---	---	3637.40	66.50		
MW-4 3699.50	3/18/25	63.23	---	---	3636.27	---	2	55 - 75
	6/11/25	62.42	---	---	3637.08	---		
	8/27/25	62.55	---	---	3636.95	---		
	11/14/25	62.57	---	---	3636.93	---		
MW-5 3693.52	3/18/25	56.33	---	---	3637.19	---	2	48 - 68
	6/11/25	56.48	---	---	3637.04	---		
	8/27/25	56.50	---	---	3637.02	---		
	11/14/25	56.61	---	---	3636.91	64.80		
MW-6 3704.81	3/18/25	66.83	---	---	3637.98	---	2	56 - 76
	6/11/25	67.03	---	---	3637.78	---		
	8/27/25	67.32	---	---	3637.49	---		
	11/14/25	67.32	---	---	3637.49	73.90		
MW-7 3694.58	3/18/25	58.11	---	---	3636.47	---	2	49 - 69
	6/11/25	58.26	---	---	3636.32	---		
	8/27/25	58.26	---	---	3636.32	---		
	11/14/25	58.35	---	---	3636.23	63.71		
MW-8 3694.58	3/18/25	56.79	---	---	3637.79	---	2	46 - 66
	6/11/25	56.93	---	---	3637.65	---		
	8/27/25	56.95	---	---	3637.63	---		
	11/14/25	57.06	---	---	3637.52	61.21		
MW-9R ¹	3/18/25	49.20	---	---	---	---	2	29.5 - 59.5
	6/11/25	49.31	---	---	---	---		
	8/27/25	49.31	---	---	---	---		
	11/14/25	49.40	---	---	---	62.21		
RW-1 3699.92	1/7/25	62.48	59.95	2.53	3639.71	---	4	55 - 75
	1/22/25	63.10	58.72	4.38	3640.75	---		
	2/5/25	63.92	59.80	4.12	3639.70	---		
	2/24/25	63.70	59.84	3.86	3639.68	---		
	3/11/25	63.05	59.87	3.18	3639.72	---		
	3/18/25	62.81	59.47	3.34	3640.11	---		
	4/2/25	63.07	59.90	3.17	3639.69	---		
	4/24/25	63.08	59.78	3.30	3639.80	---		
	5/6/25	63.10	59.84	3.26	3639.74	---		
	6/11/25	64.21	59.92	4.29	3639.56	---		
	6/25/25	63.96	59.79	4.17	3639.70	---		
	7/10/25	62.90	58.28	4.62	3641.16	---		
	7/24/25	62.35	58.24	4.11	3641.26	---		
	8/5/25	62.15	57.87	4.28	3641.61	---		
	8/27/25	63.75	59.90	3.85	3639.62	---		
	9/10/25	63.83	59.99	3.84	3639.53	---		
9/24/25	62.62	60.25	2.37	3639.43	---			
10/6/25	62.97	60.16	2.81	3639.47	---			
11/3/25	60.63	60.20	0.43	3639.68	---			
11/14/25	60.64	60.43	0.21	3639.47	---			
12/10/25	60.67	60.31	0.36	3639.57	---			
12/23/25	61.13	60.70	0.43	3639.18	---			
RW-2 3692.12	1/7/25	52.68	---	---	3639.44	---	4	47 - 67
	1/22/25	52.40	---	---	3639.72	---		
	2/5/25	52.68	---	---	3639.44	---		
	2/24/25	52.67	---	---	3639.45	---		
	3/11/25	52.69	---	---	3639.43	---		
	3/18/25	52.47	---	---	3639.65	---		
	4/2/25	52.64	---	---	3639.48	---		
	4/24/25	52.65	---	---	3639.47	---		
	5/6/25	52.67	---	---	3639.45	---		
	6/11/25	52.71	---	---	3639.41	---		
	6/25/25	53.23	---	---	3638.89	---		
	7/10/25	53.48	---	---	3638.64	---		
	7/24/25	53.51	---	---	3638.61	---		
	8/5/25	53.08	---	---	3639.04	---		
	8/27/25	52.71	---	---	3639.41	---		
	9/10/25	52.84	---	---	3639.28	---		
9/24/25	52.82	---	---	3639.30	---			
10/6/25	52.91	---	---	3639.21	---			
11/3/25	52.81	---	---	3639.31	---			
11/14/25	52.78	---	---	3639.34	---			
12/10/25	52.88	---	---	3639.24	---			
12/23/25	52.80	---	---	3639.32	---			



Table 1
 2025 Summary of Groundwater Gauging Data
 Chevron Environmental Management Company
 Former New Mexico "F" State Tank Battery
 Lea County, New Mexico

Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ¹)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ⁴)
RW-3 3690.86	1/7/25	52.22	---	---	3638.64	---	4	47 - 67
	1/22/25	52.23	---	---	3638.63	---		
	2/5/25	52.19	---	---	3638.67	---		
	2/24/25	52.18	---	---	3638.68	---		
	3/11/25	52.20	---	---	3638.66	---		
	3/18/25	51.84	---	---	3639.02	---		
	4/2/25	52.18	---	---	3638.68	---		
	4/24/25	52.21	---	---	3638.65	---		
	5/6/25	52.19	---	---	3638.67	---		
	6/11/25	52.29	---	---	3638.57	---		
	6/25/25	52.46	---	---	3638.40	---		
	7/10/25	52.34	---	---	3638.52	---		
	7/24/25	52.59	---	---	3638.27	---		
	8/5/25	51.92	---	---	3638.94	---		
	8/27/25	52.34	---	---	3638.52	---		
	9/10/25	52.39	---	---	3638.47	---		
9/24/25	52.34	---	---	3638.52	---			
10/6/25	52.44	---	---	3638.42	---			
11/3/25	52.43	---	---	3638.43	---			
11/14/25	52.42	---	---	3638.44	---			
12/10/25	52.43	---	---	3638.43	---			
12/23/25	52.35	---	---	3638.51	---			
RW-4 3699.94	1/7/25	62.93	60.20	2.73	3639.46	---	4	35 - 75
	1/22/25	63.41	61.20	2.21	3638.51	---		
	2/5/25	63.38	60.75	2.63	3638.92	---		
	2/24/25	63.30	60.73	2.57	3638.95	---		
	3/11/25	64.25	60.72	3.53	3638.86	---		
	3/18/25	64.32	60.52	3.80	3639.03	---		
	4/2/25	64.19	60.71	3.48	3638.87	---		
	4/24/25	64.15	60.69	3.46	3638.89	---		
	5/6/25	64.18	60.64	3.54	3638.94	---		
	6/11/25	63.10	61.06	2.04	3638.67	---		
	6/25/25	63.77	60.27	3.50	3639.31	---		
	7/10/25	62.91	61.11	1.80	3638.64	---		
	7/24/25	62.31	61.01	1.30	3638.80	---		
	8/5/25	61.83	60.89	0.94	3638.95	---		
	8/27/25	64.60	60.94	3.66	3638.62	---		
	9/10/25	64.48	61.00	3.48	3638.58	---		
9/24/25	64.10	61.11	2.99	3638.52	---			
10/6/25	63.14	1.00	62.14	3692.54	---			
11/3/25	61.85	61.20	0.65	3638.56	---			
11/14/25	61.82	61.33	0.49	3638.56	---			
12/10/25	61.87	61.29	0.58	3638.56	---			
12/23/25	62.24	61.38	0.86	3638.56	---			
WW-1 3704.17	3/18/25	NA					6	unknown
	6/11/25	NA						
	8/27/25	NA	-----Not gauged since 2003-----					
	11/14/25	NA						
WW-2 3703.84	3/18/25	NA					6	unknown
	6/11/25	NA						
	8/27/25	NA	-----Not gauged since 2003-----					
	11/14/25	NA						

Notes:

toc - top of casing.

msl - mean sea level.

bgs - below ground surface.

NA - Not Accessible

--- - Not Measured/Not Available

Corrected groundwater elevations from July 1998 to December 2006 were calculated using LNAPL specific gravity of 0.88.

Corrected groundwater elevations from January 2007 to current were calculated using LNAPL specific gravity of 0.897.

MW-1, MW-2 and MW-9 were plugged and abandoned and replaced with RW-1, RW-2 and RW-3 in November 1999.

Monitor wells (MWs) are 2-inch in diameter (except for MW-9R); Recovery wells (RWs) are 4-inch in diameter.

*MW-9R was installed May 19, 2015. An elevation survey of this monitoring well had not been completed prior to submission of this report.

Table 2
2025 Summary of Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-3	6/11/25	<0.000190	<0.000412	<0.000160	<0.000510	94.7
MW-4	6/11/25	<0.000190	<0.000412	<0.000160	<0.000510	106
MW-5	6/11/25	<0.000190	<0.000412	<0.000160	<0.000510	102
MW-6	3/18/25	<0.000190	<0.000412	<0.000160	<0.000510	72.1
	6/11/25	<0.000190	<0.000412	<0.000160	<0.000510	77.2 J6
	8/27/25	0.000207 J	0.000581 J	0.000233 J	0.00109 J	71.2
	11/14/25	<0.000190	<0.000412	0.000161 B J	<0.000510	77.7
MW-7	6/11/25	<0.000190	<0.000412	<0.000160	<0.000510	107
MW-8	6/11/25	<0.000190	<0.000412	<0.000160	<0.000510	86.2
MW-9R	6/11/25	<0.000190	<0.000412	<0.000160	<0.000510	76.0 J6
RW-1	3/18/25	----- LNAPL Present -----				
	6/11/25	----- LNAPL Present -----				
	8/27/25	----- LNAPL Present -----				
	11/14/25	----- LNAPL Present -----				
RW-2	6/11/25	0.000233 J	0.000516 J	<0.000160	0.00369	86.4
	11/14/25	0.000374 B J	<0.000412	<0.000160	0.000969 B J	91.7
RW-3	6/11/25	0.000463 J	<0.000412	<0.000160	0.00100 J	82.3
	11/14/25	0.00240	<0.000412	0.00485	0.0148	84.9
RW-4	3/18/25	----- LNAPL Present -----				
	6/11/25	----- LNAPL Present -----				
	8/27/25	----- LNAPL Present -----				
	11/14/25	----- LNAPL Present -----				
WW-1	3/18/25	----- NA -----				
	6/11/25	----- NA -----				
	8/27/25	----- NA -----				
	11/14/25	----- NA -----				
WW-2	3/18/25	----- NA -----				
	6/11/25	----- NA -----				
	8/27/25	----- NA -----				
	11/14/25	----- NA -----				

Notes:

Results shown in milligrams per liter (mg/L)

< = Analyte not detected at or above the Method Detection Limit (MDL)

B = The same analyte is found in the associated blank.

J = The identification of the analyte is acceptable; the reported value is an estimate.

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

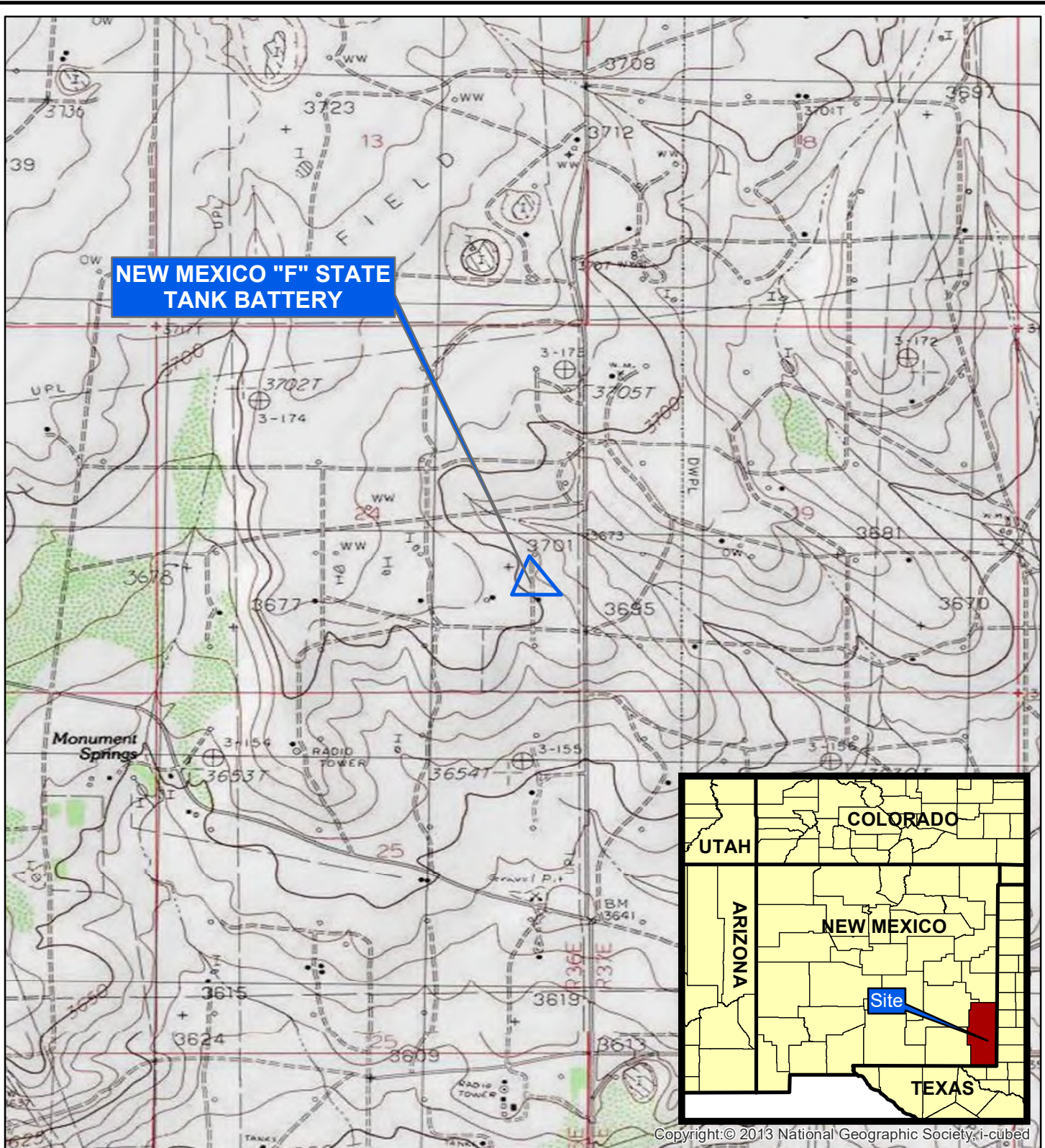
¹Human Health Standards for Groundwater.

²Other Standards for Domestic Water Supply.

NA = Not Accessible

Figures

Document Path: \\arcadis-us\office\data\Houston-TX\ENV\Chevron\Texaco-TX\ENV\Chevron\Texaco-TX\State\GIS - F-State\Figure 1 - Site Details Map 01.19.2020



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Legend

 Site Boundary

Notes:

- 1. Datum: D_WGS_1984
- 2. Source: United States Geological Survey 7.5 Minute Quadrangle Map
- 3. Site Location: 32.643018, -103.301158



Chevron Environmental Management Company
New Mexico "F" State Tank Battery
Lea County, New Mexico

SITE LOCATION MAP



FIGURE
1

Document Path: T:_ENV\Chevron_NM_F_State\MXD\Figure 2 - Site Details Map 01.17.2020.mxd 2/3/2021 2:22:21 PM Last edited: avi00976

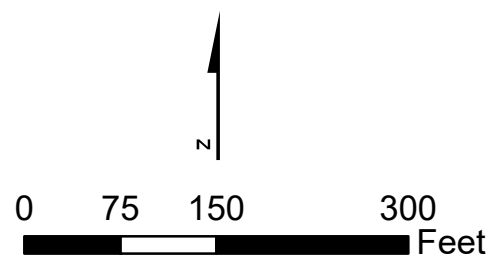


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

-  Monitoring Well
-  Recovery Well
-  Water Well
-  Fence Line

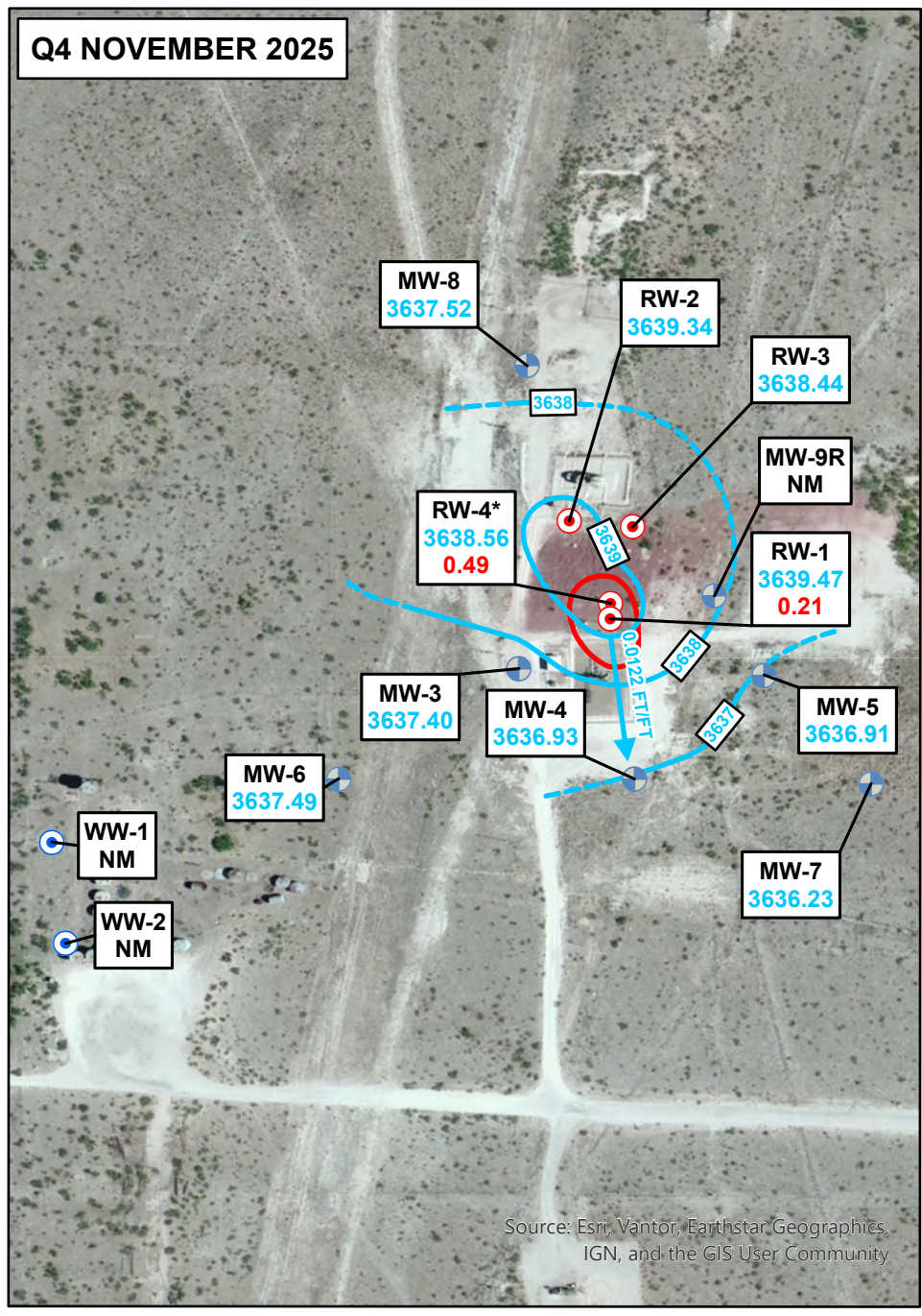
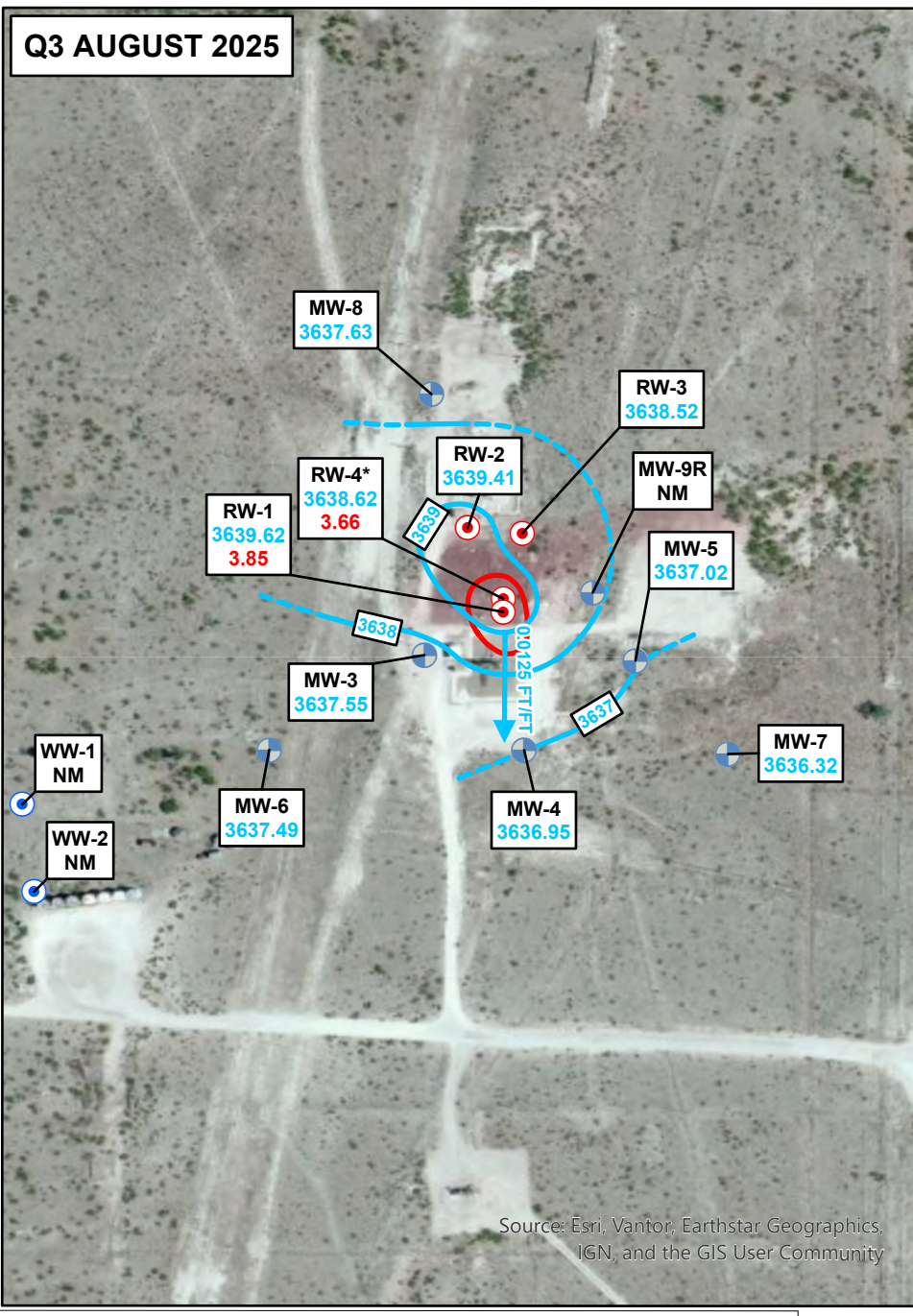
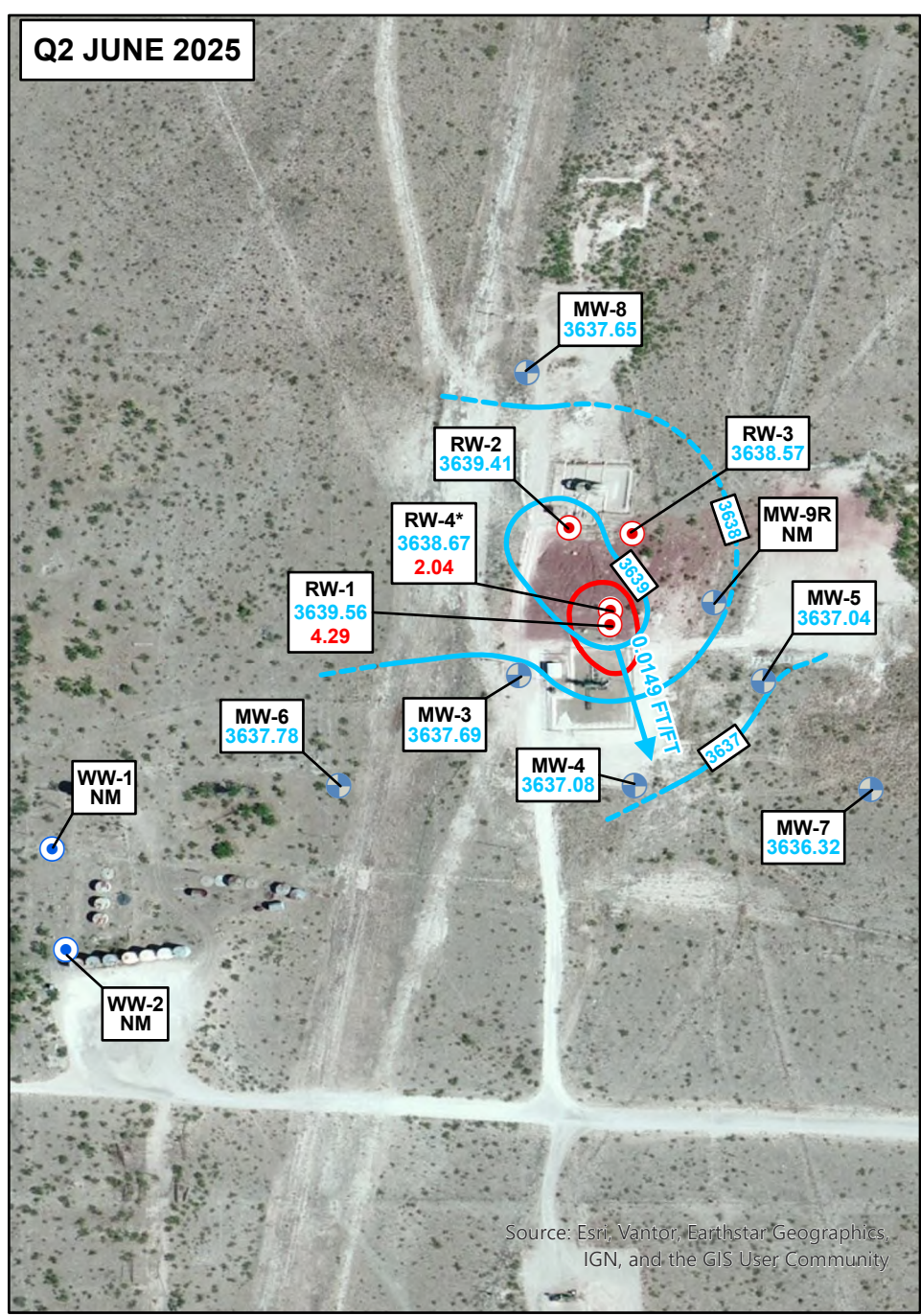
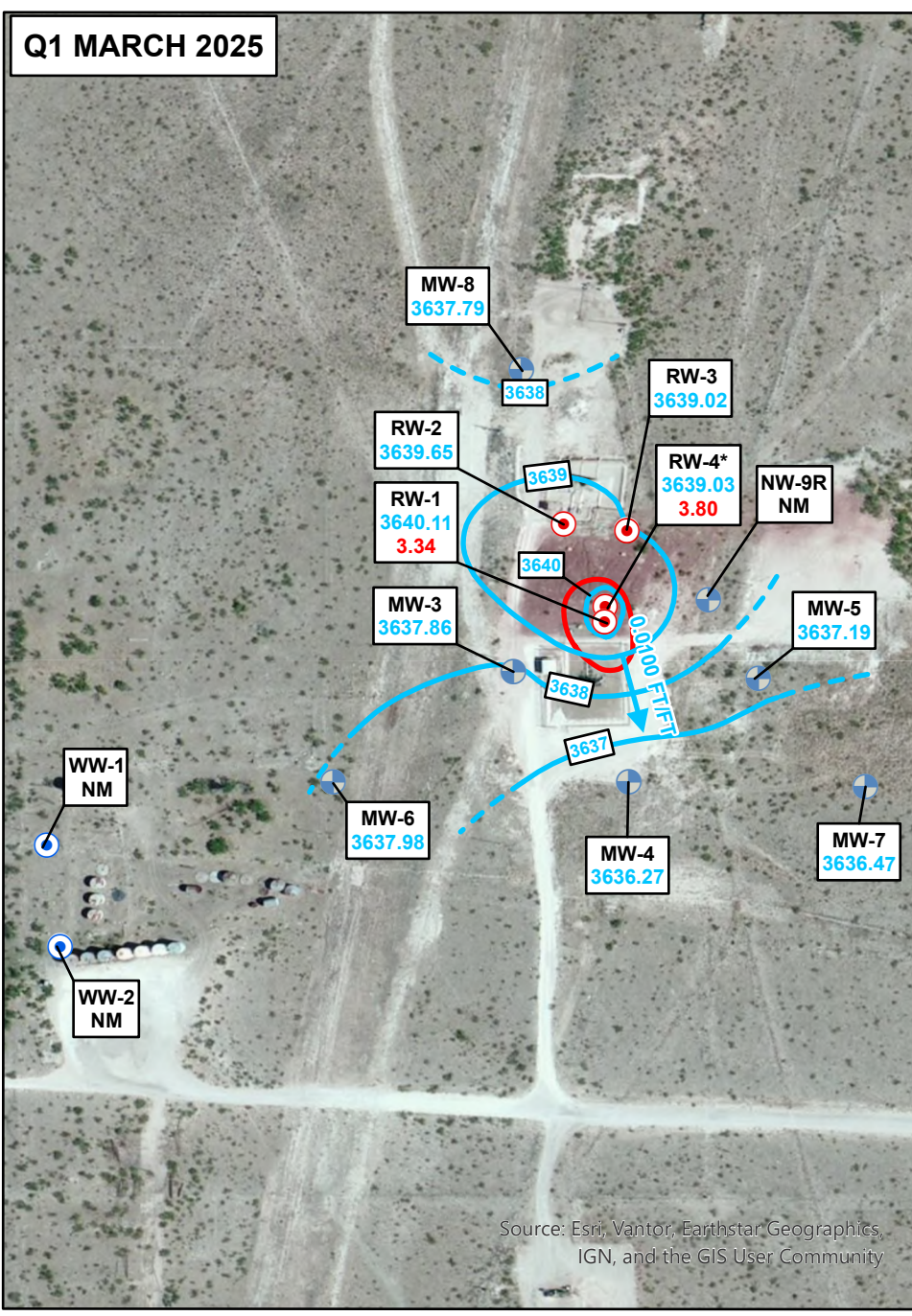
Note:
 1. Datum: D_WGS_1984
 2. Site Location: 32.643018, -103.301158



Chevron Environmental Management Company
 Former New Mexico "F" State Tank Battery
 Lea County, New Mexico

SITE DETAILS MAP

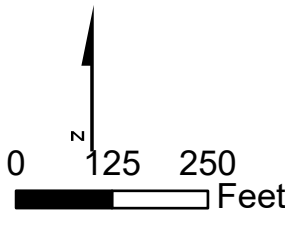




Legend

- Monitoring Well Location
- Recovery Well Location
- Water Well Location
- 3640 Potentiometric Contour and Elevation
- Potentiometric Contour (Dashed where inferred)
- 3640.11 Groundwater Elevation (ft above mean sea level)
- Approximate Groundwater Flow
- Approximate LNAPL Contour
- 4.29 LNAPL Thickness (ft)
- 0.0149 FT/FT = Approximate Hydraulic Gradient (Feet/Foot)

Notes:
 1. Datum: D_WGS_1984
 2. Site Location: 32.643018, -103.301158
 3. NM: Not Measured
 4. *: Well not used for contouring



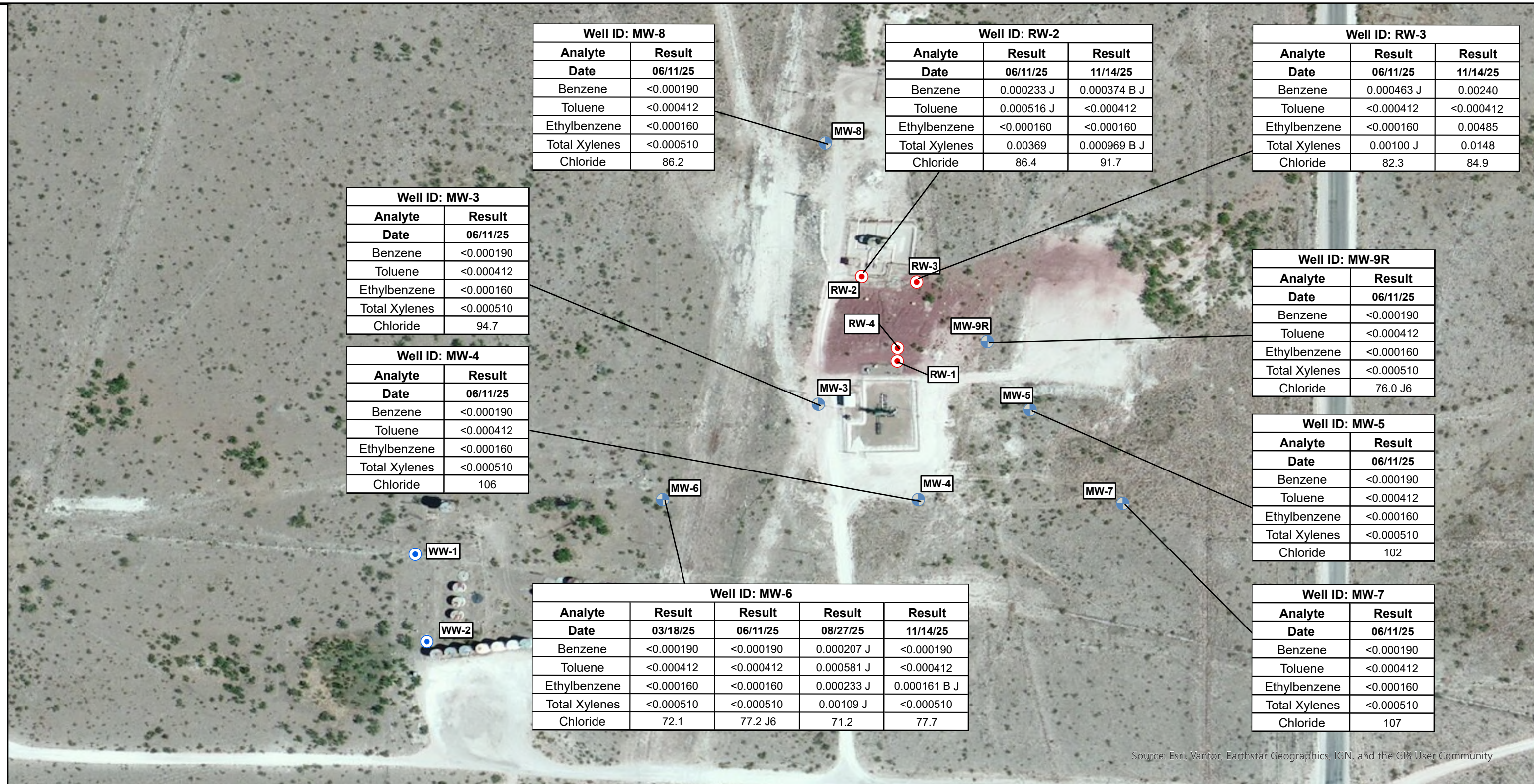
Chevron Environmental Management Company
 Former New Mexico "F" State Tank Battery
 Lea County, New Mexico

QUARTERLY POTENTIOMETRIC SURFACE MAPS 2025

ARCADIS | FIGURE 3

Document Path: T:\ENV\Upstream\NMF_State\Pro\NMF_State_Annual_2025.aprx 12/18/2025 11:13 AM Last edited: vmm1306

Document Path: T:\ENV\Upstream\MMF_State\Pro\MMF_State\Annual_2025.aprx 12/18/2025 2:22 PM Last edited: vmm1306



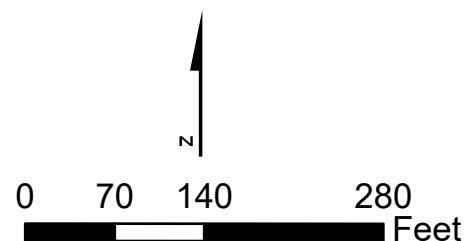
Source: Esri, Vantor, Earthstar Geographics, IGN, and the GIS User Community

Legend

- Monitoring Well
- Recovery Well
- Water Well
- Site Details
- x Fence Line

Notes:

1. Datum: D_WGS_1984
2. Site Location: 32.643018, -103.301158
3. MW-6 is sampled quarterly.
4. Wells MW-3, MW-4, MW-5, MW-7, MW-8 and MW-9R were sampled only during June 2025 event
5. BTEX: Benzene, Toluene, Ethylbenzene, Total Xylenes
6. <0.000190 = not detected at or above Method Detection Limit (MDL)
7. NMWQCC = New Mexico Water Quality Control Commission Groundwater Standard
8. J = The identification of the analyte is acceptable; the reported value is an estimate.
9. All results are in milligrams per liter (mg/L).
10. B = The sample analyte is found in the associated blank.
11. J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.



Analyte	NMWQCC Standard for Groundwater (mg/L)
Benzene	0.005
Toluene	1.0
Ethylbenzene	0.7
Total Xylenes	0.62
Chloride	250

Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico

2025 BTEX & CHLORIDE SAMPLING RESULTS MAP



Appendix A

Site Background

Former New Mexico "F" State Tank Battery



REGULATORY BACKGROUND

The oil field tank battery was historically operated by Texaco Exploration and Production, Inc. (Texaco). An earthen emergency reserve pit was located approximately 175 feet north of the tank battery. The tank battery and reserve pit are visible in aerial photographs dating from 1949 to 1986. The tank battery and ancillary equipment were removed from the Site sometime after 1986.

The former reserve pit was encountered by the Amerada-Hess Corporation during construction of an adjacent production facility. Approximately 7,400 cubic yards of soil and caliche rock were excavated from the former pit and stockpiled at an adjacent location. In 1998, Highlander Environmental Corporation performed a subsurface assessment which included collection of soil samples from the sidewalls and bottom of the excavation, and additionally from the stockpiled soil. Chemical analyses of the soil samples confirmed that concentrations of all constituents of concern were below the historical New Mexico Oil Conservation Division (NMOCD) recommended remediation action levels for the Site. The soil sampling activities and laboratory analyses are documented in the Subsurface Investigation Report, New Mexico "F" State Tank Battery (Highlander Environmental Corporation, September 1998). According to the Annual Groundwater Monitoring Report, New Mexico "F" State Tank Battery (Larson and Associates, Inc., 2005), the pit was closed between September 1998 and November 2003 per closure requirements stipulated by the NMOCD in correspondence dated January 20, 1999. The bottom of the excavated pit was lined with 2 feet of compacted clay, the stockpiled soil was returned to the excavation, and the backfilled excavation was contoured to natural grade.

Nine groundwater monitoring wells (MW-1 through MW-9) were installed at the Site between 1998 and 1999, and Light Non-aqueous Phase Liquid (LNAPL) was found in two wells (MW-1 and MW-2). Three monitoring wells (MW-1, MW-2, and MW-9) were plugged and abandoned in 1999 and replaced with LNAPL recovery wells RW-1, RW-2, and RW-3. On February 17, 2003, the New Mexico Office of the State Engineer (NMOSE) approved permit applications (L-11029, L-11030, and L-11031) to divert underground water for the purpose of LNAPL remediation.

Semi-annual groundwater monitoring, bi-weekly operation and maintenance (O&M) activities, and annual reporting were previously performed by GHD from 2005 through mid-2019. The initial groundwater recovery/gradient control remediation system operated from February 2005 until November 2006 when the system was shut down. A LNAPL skimmer pump was subsequently installed in RW-1, and absorbent socks were placed in RW-2 and RW-3. An additional recovery well (RW-4) was installed in May 2011 and equipped with a LNAPL skimmer pump in October 2012. The LNAPL skimmer system in RW-1 and RW-4 operated on a continuous, automated basis since installation through February 2017; due to the low accumulation and negligible LNAPL recovery rates, the LNAPL skimmer pumps were removed in March 2017 and replaced with absorbent socks.

For the purpose of additional LNAPL removal, a total of 14 Mobile Dual Phase Extraction (MDPE) events were conducted on RW-1 and RW-4 in 2011, 2012, and 2013. All but three events were conducted on RW-1 due to the higher LNAPL recovery rate in that well. The durations of each event ranged from 6.5 to 8 hours. A total of 1,495 gallons of LNAPL was recovered during the collective events. The recovery

rates from RW-1 during the 2012 events were constant with no declining trends, suggesting that subsequent MDPE events would recover additional LNAPL.

In October 2015, a 24-hour MDPE pilot test event was conducted on RW-1 to evaluate the potential effectiveness of a permanent Dual Phase Extraction (DPE) system. A total of 6,120 gallons of groundwater and 44 gallons of LNAPL were recovered from RW-1 over a 24-hour period. The average depth of induced groundwater depression within the area of hydraulic control was estimated at 1.50 feet below the static level. The LNAPL thickness decreased from 2.25 to 0.27 feet at the conclusion of the event. The LNAPL recovery rate began at 3 percent and steadily declined over nine hours when LNAPL recovery stopped. LNAPL recovery resumed at event hour 17 at a rate of 0.5 percent, stopped again at event hour 21, then resumed at a 0.25 percent rate during the last two event hours. Due to the low recovery rates and low LNAPL recharge, it was concluded that a permanent DPE system was not feasible for LNAPL recovery at the Site.

Due to the sustained reduction in LNAPL thicknesses after 2015, accompanied by low accumulation rates and negligible LNAPL recovery rates, the LNAPL skimmer pumps in RW-1 and RW-4 were removed in March 2017 and replaced with absorbent socks. LNAPL is hand bailed from RW-1 and RW-4 on a bi-weekly basis.

The dissolved phase plume is primarily limited to benzene in wells containing LNAPL (RW-1 and RW-4), and the concentrations remain relatively stable. Concentrations detected in other wells (e.g., RW-2 and RW-3) are below regulatory limits.

Sentry well MW-6 has been sampled on a quarterly schedule beginning in 2007 to ensure the plume is not migrating to the southwest, toward off-site water wells WW-1 and WW-2. Well MW-9R was installed to the east of the former reserve pit in May 2015 (at a different location than the original MW-9 which was replaced by RW-3 in 1999).

Quarterly gauging only (no hand-bailing) was initiated in July 2020 and conducted through August 2021. Monthly LNAPL gauging and hand-bailing was re-initiated in September 2021 and conducted through May 2022. In May 2022, LNAPL skimmer pumps were re-installed in recovery wells (RW-1 and RW-4) and bi-weekly operation and maintenance (O&M) activities were re-initiated and are currently ongoing.

Groundwater is currently monitored on a semi-annual basis; however, site gauging and the sampling of one sentry monitoring well (MW-6) are performed quarterly.

A Groundwater Monitoring and Light Non-aqueous Phase Liquid (LNAPL) Operation and Maintenance (O&M) Reduction Workplan (Reduction Workplan) was submitted to the New Mexico Oil Conservation Division (NMOCD) in July 2020 and approved by the NMOCD on February 25, 2025, which included the following reduced scope associated with annual sampling and LNAPL recovery activities. LNAPL was previously hand-bailed from recovery wells RW-1 and RW-4 on a bi-weekly basis beginning 2017 through second quarter 2020 but was reduced to quarterly gauging only in the third quarter 2020 to allow LNAPL equilibration to evaluate current LNAPL conditions at the Site. The reduced LNAPL O&M scope outlined within the Reduction Workplan was continued through August 2021.

LNAPL levels increased throughout 2020 and 2021. Monthly LNAPL abatement activities (gauging and hand bailing) were re-initiated in September 2021. Throughout 2021, LNAPL was present in all four recovery wells (RW-1 through RW-4). Before 2021, LNAPL had not been present in RW-2 or RW-3 since

2013. Benzene had also been detected in monitoring wells surrounding the LNAPL plume. In May 2022, LNAPL skimmer pumps were re-installed in recovery wells (RW-1 and RW-4) and bi-weekly operation and maintenance (O&M) activities were re-initiated and are currently ongoing. Currently LNAPL is only present in two recovery wells, RW-1 and RW-4.

REGULATORY FRAMEWORK

The NMOCD provides guidance for remediation of contaminants of oil field wastes or products in Guidelines for Remediation of Leaks, Spills, and Releases (August 13, 1993). The guidance requires remediation of groundwater to the human health standards of the New Mexico Water Quality Control Commission (NMWQCC) set forth in New Mexico Administrative Code (NMAC) 20.6.2.3103. NMAC 20.6.2 was amended and revised standards were effective December 21, 2018. Standards for benzene, toluene, ethylbenzene, xylenes (BTEX) and chloride are listed below:

Analyte	NMWQCC Standard for Groundwater (mg/L)
Benzene	0.005
Toluene	1.0
Ethylbenzene	0.7
Total Xylenes	0.62
Chloride	250

Note: mg/L = milligrams per liter

GEOLOGY/HYDROGEOLOGY ASSESSMENT

Site Setting

The Site is located on Lea County Road 41 (Maddox Road), approximately three miles northwest of Monument, in the northeast quarter (NE/4) of the southeast quarter (SE/4), Section 24, Township 19 South, Range 36 East, Lea County, New Mexico. The Site's coordinated are latitude 32.643018 and longitude -103.301158.

Land in the vicinity of the Site is utilized primarily for livestock ranching and oil and gas production, and production and has areas of undeveloped rangeland vegetated with indigenous grass. No active Chevron U.S.A. Inc. (Chevron) operations are present in the area. A Site Location Map is presented as **Figure 1**. A Site Detail Map and the surrounding vicinity are presented on **Figure 2**.

Regional Geologic Conditions

The region is characterized by a surface cover of up to 200 feet of unconsolidated to semi-lithified sediments of the Ogallala Formation consisting of sand, clay, and fluvial gravel. The upper portion of the Ogallala Formation has been heavily cemented by caliche. The Tertiary-aged sediments are underlain by the Triassic-aged Dockum Group shale ("red beds").

Hydrogeologic Conditions

Regional groundwater flow in the Ogallala Aquifer is controlled by the slope of the land surface to the south with localized eastward flow into the valley of Monument Draw. The aquifer typically behaves as an unconfined aquifer. Monument Draw is an intermittent stream that contains water only after heavy rains (Texas Water Development Board [TWDB], 2008)¹. The Dockum Group Shale is considered the underlying aquitard for the Ogallala Aquifer.

Site Hydrogeology

Groundwater beneath the Site is found within the upper Ogallala deposits. The depth to groundwater at the Site ranges from approximately 47 to 75 ft bgs.

At the Site, the local groundwater flow direction trends to the southeast with an average horizontal hydraulic gradient of approximately 0.013 feet per foot (ft/ft). The southeast groundwater flow direction observed at the Site is consistent with the regional groundwater flow direction to the southeast in the Ogallala Aquifer.

Appendix B

Groundwater Monitoring and LNAPL Operation and Maintenance (O&M) Reduction Workplan



Jason Michelson
Project Manager

**Chevron Environmental
Management Company**
1500 Louisiana Street, #38116
Houston, Texas 77002
Work: 832-854-5601
Cell: 281-660-8564
jmichelson@chevron.com

July 27, 2020

EMNRD/OCD
5200 Oakland, NE, Suite 100
Albuquerque, NM 87113

**Re: Former F-State Tank Battery
Case No. 1RP-258
Proposed Groundwater Monitoring and LNAPL O&M Reduction Workplan
Lea County, New Mexico**

Dear whom it concerns,

Please find enclosed for your files, copies of the following Workplan:

- Former F-State Tank Battery Proposed Groundwater Monitoring and LNAPL O&M Reduction Workplan

The submittal was prepared by Arcadis on behalf of Chevron Environmental Management Company (CEMC).

Please do not hesitate to call Scott Foord with Arcadis U.S., Inc., the current consultant, at 713-953-4853 or myself at 832-854-5601, should you have any questions.

Sincerely,

Jason Michelson
Jason Michelson

Encl. Former F-State Tank Battery 1RP-258 Proposed Groundwater Monitoring and LNAPL O&M Reduction Workplan



Mr. Bradford Billings
Project Manager
EMNRD/OCD
5200 Oakland, NE, Suite 100
Albuquerque, NM 87113

Arcadis U.S., Inc.
10205 Westheimer Road
Suite 800
Houston
Texas 77042
Tel 713 953 4800
Fax 713 977 4620
www.arcadis.com

Subject:

Proposed Groundwater Monitoring and LNAPL O&M Reduction Workplan
Chevron Environmental Management Company
Former F-State Tank Battery
Lea County, New Mexico
Case No. 1RP-258

ENVIRONMENT

Date:
July 16, 2020

Contact:
Scott Foord

Phone:
713.953.4853

Email:
William.foord@arcadis.com

ARCADIS U.S., Inc.
TX Engineering License # F-533
Geoscientist License # 50158

Dear Mr. Billings:

At the request of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) is providing this workplan to request the reduction of groundwater monitoring frequency and a reduction of light non-aqueous phase liquid (LNAPL) recovery event frequency for the Former F-State Tank Battery site (Site).

The Former F-State Tank Battery is located on Lea County Road 41 (Maddox Road), approximately three miles northwest of Monument, New Mexico, in the northeast quarter (NE/4) of the southeast quarter (SE/4), Section 24, Township 19 South, Range 36 East, Lea County, New Mexico. The Site's coordinates are latitude 32.643018 and longitude -103.301158.

Groundwater monitoring began at the Site in July 1998, and the Site is currently monitored semi-annually from a network of 7 monitoring wells, 4 recovery wells, and 2 off-site water wells (two full site groundwater sampling events are currently being conducted). Sentry well MW-6 is additionally sampled quarterly to ensure the dissolved-phase plume is not migrating southwest towards the off-site water wells (WW-1 and WW-2). At the request of the NMOCD, LNAPL samples are collected annually from recovery wells containing measurable LNAPL. Two recovery wells (RW-1 and RW-4) currently contain LNAPL and bi-weekly LNAPL gauging and hand-bailing activities are currently conducted. All monitoring wells without LNAPL are currently sampled during both semi-annual (full site) sampling events. The constituents of concern (COCs) in groundwater currently being

Mr. Bradford Billings
EMNRD/OCD
July 16, 2020

analyzed for include benzene, ethylbenzene, toluene, xylenes (BTEX) and chloride. Neither BTEX or chloride have been detected above New Mexico Water Quality Control Commission (NMWQCC) screening standards or typically above the laboratory method detection limits in site monitoring or water wells for the life of the project. The BTEX plume has remained stable and within the proximity of the four recovery wells only. The Site groundwater flow is generally to the southeast.

For additional site-specific background information please refer to the GHD, 2018 Annual Groundwater Monitoring Report, dated February 2019. The 2019 Annual Groundwater Monitoring Report will be submitted by the end of the third quarter 2020.

PROPOSED REDUCED SAMPLING PLAN

The following Workplan outlines the specifics of the proposed reduced sampling plan and the methodology for the selection of those monitoring wells. One semi-annual monitoring event (full site) will include sampling all site wells as currently conducted. The second semi-annual sampling event will be reduced to only sampling monitoring wells based on the following proposed sampling methodology. Sentry well MW-6 will continue to be sampled quarterly to ensure the dissolved-phase plume is not migrating southwest towards the off-site water wells. The groundwater sampling frequency of all other wells will be assessed yearly based on the results of the sampling events for the lifespan of the project and will increase to quarterly for a minimum of eight consecutive quarters prior to closure request for the Site.

Additionally, CEMC requests the reduction of current LNAPL gauging and hand-bailing activities schedule from bi-weekly to quarterly gauging only (no hand-bailing) for one year (through August 2021), to allow the current LNAPL conditions at the Site to equilibrate so that a more practical/efficient LNAPL recovery method can be evaluated and initiated.

CEMC also request to discontinue the annual collection of LNAPL samples from recovery wells for analytical analyses as data trends for these wells have been established.

The following sections provide specifics for the proposed reduced groundwater monitoring plan:

Sampling Reduction for Non-impacted Monitoring Wells

Site monitoring wells with COC concentrations reported below NMWQCC exceedance standards for two consecutive years or longer will not be gauged or sampled during the second semi-annual monitoring event except for sentry well MW-6.

The Site wells currently selected for reduction from the second semi-annual sampling event include: MW-3, MW-4, MW-5, MW-7, MW-8, MW-9R, WW-1, and WW-2.

The previously referenced wells have been evaluated based on historical concentration trends, historical concentration trends of nearby monitoring wells, potential receptors, and the groundwater gradient.

The proposed list of Site monitoring wells that will be sampled during each semi-annual event are presented on attached **Table 1** (Sampling and Analysis Plan).

Mr. Bradford Billings
EMNRD/OCD
July 16, 2020

The Site monitoring wells that will be sampled during the reduced event are presented on **Figure 1** (Potentiometric Surface Map), and with current groundwater constituent concentrations on **Figure 2** (Proposed Groundwater Monitoring Reduction Plan).

The Summary of Historical Groundwater Analytical Results is presented in **Table 2**.

Request to Reduce LNAPL Recovery and Gauging

As stated previously, CEMC additionally requests the reduction of the current bi-weekly LNAPL gauging and hand-bailing activities schedule to quarterly gauging only (no hand-bailing) for one year through August 2021 to allow the current LNAPL conditions at the Site to equilibrate so that a more practical/efficient LNAPL recovery method can be evaluated and initiated. CEMC will assess findings from the LNAPL gauging data collected through August 2021 to evaluate more practical and effective LNAPL recovery system alternatives.

CONTACT

Arcadis is prepared to initiate the scope of work immediately. If you have any questions or comments, please contact either Scott Foord by phone at 713 953 4853 or by e-mail at william.foord@arcadis.com or Greg Cutshall by phone at 859 327 4626 or by email at greg.cutshall@arcadis.com.

Sincerely,

Arcadis U.S., Inc.



Scott Foord
Project Manager

Copies:
Greg Cutshall, Program Manager

Enclosures:
Tables

- 1 Sampling and Analysis Plan
- 2 Summary of Historical Groundwater Analytical Results

Figures

- 1 Potentiometric Surface Map
- 2 Proposed Groundwater Monitoring Reduction Plan

TABLES



Table 1
 Sampling and Analysis Plan
 Chevron Environmental Management Company
 Former F-State Tank Battery
 Lea County, New Mexico
 Case No. 1RP-258



Well ID	1st Quarter Sentry Well MW-6 only		2nd Quarter First Semi-Annual Event		3rd Quarter Sentry Well MW-6 only		4th Quarter Second Semi-Annual Event	
	BTEX	Chloride	BTEX	Chloride	BTEX	Chloride	BTEX	Chloride
MW-3	--	--	X	X	--	--	--	--
MW-4	--	--	X	X	--	--	--	--
MW-5	--	--	X	X	--	--	--	--
MW-6	X	X	X	X	X	X	X	X
MW-7	--	--	X	X	--	--	--	--
MW-8	--	--	X	X	--	--	--	--
MW-9R	--	--	X	X	--	--	--	--
RW-1	--	--	--	--	--	--	--	--
RW-2	--	--	X	X	--	--	X	X
RW-3	--	--	X	X	--	--	X	X
RW-4	--	--	--	--	--	--	--	--
WW-1	--	--	X	X	--	--	--	--
WW-2	--	--	X	X	--	--	--	--

Notes:
 USEPA = United States Environmental Protection Agency
 X = Sample be collected at monitoring well during respective event.
 -- = Sample will not be collected at monitoring well
Bold = LNAPL currently present in well

Table 2
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-3	7/28/98	0.003	<0.001	<0.001	0.002	36
MW-3	2/16/01	<0.005	<0.005	<0.005	<0.005	31
MW-3	6/12/02	<0.005	<0.005	<0.005	<0.005	27.1
MW-3	11/26/03	<0.001	<0.001	<0.001	<0.001	31.9
MW-3	6/6/03	<0.001	<0.001	<0.001	<0.001	27.5
MW-3	12/4/03	<0.001	<0.001	<0.001	0.0017	26.1
MW-3	7/2/04	<0.005	<0.005	<0.005	<0.005	28
MW-3	12/21/04	<0.005	<0.005	<0.005	<0.005	32.3
MW-3	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	34.3
MW-3	12/13/05	<0.005	<0.005	<0.005	<0.010	29.3
MW-3	6/27/06	<0.005	<0.005	<0.005	<0.010	31.1
MW-3	12/19/06	<0.005	<0.005	<0.005	<0.001	28
MW-3	6/27/07	<0.005	<0.005	<0.005	<0.010	31
MW-3	12/14/07	<0.005	<0.005	<0.005	<0.010	31
MW-3	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	30
MW-3	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	32
DUP	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	32
MW-3	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	35
MW-3	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	40
MW-3	7/1/10	<0.00020	<0.00020	<0.00020	<0.00070	50.4
MW-3	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	64
MW-3	6/2/11	0.00053J	0.00061J	<0.0010	<0.0030	90.7
MW-3	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	85.0
DUP	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	85.7
MW-3	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	114
MW-3	11/26/12	<0.0001	<0.0002	0.00116	0.00345	94.6
MW-3	6/14/13	<0.001	<0.002	<0.001	<0.001	79
MW-3	11/27/13	<0.001	<0.002	<0.001	<0.001	101
MW-3	8/1/14	<0.001	<0.002	<0.001	<0.003	75.6
MW-3	12/12/14	<0.001	<0.002	<0.001	<0.003	137
MW-3	6/9/15	<0.001	<0.002	<0.001	<0.003	89.1
MW-3	12/9/15	<0.001	<0.002	<0.001	<0.003	67.8
MW-3	6/21/16	<0.002	<0.002	<0.002	<0.002	57.9
MW-3	12/8/16	<0.002	<0.002	<0.002	<0.002	60.6
MW-3	6/14/17	<0.002	<0.002	<0.002	<0.002	55.0
MW-3	11/29/17	<0.002	<0.002	<0.002	<0.002	49.8
MW-3	6/14/18	<0.002	<0.002	<0.002	<0.002	50.6
MW-3	12/13/18	<0.0020	<0.0020	<0.002	<0.002	50.0
MW-3	5/6/19	<0.0020	<0.0020	<0.0020	<0.0020	53.0
MW-3	11/19/19	<0.0010	<0.0010	<0.0010	<0.0020	59.0

Table 2
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005¹	1.0¹	0.7¹	0.62¹	250²
MW-4	7/28/98	<0.001	<0.001	<0.001	<0.001	94
MW-4	2/16/01	<0.005	<0.005	<0.005	0.008	170
MW-4	6/12/02	<0.005	<0.005	<0.005	<0.005	85.6
MW-4	11/26/03	0.002	<0.001	<0.001	<0.005	160
MW-4	6/6/03	<0.001	<0.001	<0.001	0.0026	111
MW-4	12/4/03	0.0015	<0.001	<0.001	<0.001	104
MW-4	7/2/04	<0.001	<0.001	<0.001	<0.001	72.4
MW-4	12/21/04	<0.005	<0.005	<0.005	<0.005	59.7
MW-4	6/6/05	<0.001	<0.001	<0.001	<0.001	58.4
MW-4	12/13/05	<0.005	<0.005	<0.005	<0.010	55.3
MW-4	6/27/06	0.000597	<0.0005	<0.0005	<0.001	48.8
MW-4	12/19/06	<0.005	<0.005	<0.005	<0.001	34
MW-4	6/27/07	<0.005	<0.005	<0.005	<0.010	39
MW-4	12/13/07	0.000968	<0.000500	<0.000500	0.00254	63.1
MW-4	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	61
MW-4	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	52
MW-4	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	59
MW-4	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	58
MW-4	7/1/10	0.00032J	<0.00020	<0.00020	<0.00070	54.5
MW-4	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	57.5
DUP	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	58.4
MW-4	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	49.8
MW-4	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	142
MW-4	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	73.7
MW-4	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	69.3
MW-4	6/14/13	<0.001	<0.002	<0.001	<0.001	59.5
MW-4	11/27/13	<0.001	<0.002	<0.001	<0.001	65.1
MW-4	8/1/14	<0.001	<0.002	<0.001	<0.003	71.8
MW-4	12/12/14	<0.001	<0.002	<0.001	<0.003	104
MW-4	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	98.5
MW-4	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	70.6
MW-4	6/21/16	<0.002	<0.002	<0.002	<0.002	60.9
MW-4	12/8/16	<0.002	<0.002	<0.002	<0.002	86.2
MW-4	6/14/17	<0.002	<0.002	<0.002	<0.002	86.4
MW-4	11/29/17	<0.002	<0.002	<0.002	<0.002	81.7
MW-4	6/14/18	<0.002	<0.002	<0.002	<0.002	96.4
MW-4	12/13/18	<0.002	<0.002	<0.002	<0.002	77.6
MW-4	5/6/19	<0.002	<0.002	<0.002	<0.002	54.6
MW-4	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	99

Table 2
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-5	7/28/98	<0.001	<0.001	<0.001	<0.001	360
MW-5	2/16/01	<0.005	<0.005	<0.005	<0.005	120
MW-5	6/12/02	<0.005	<0.005	<0.005	<0.005	90.2
MW-5	11/26/03	0.002	<0.001	0.003	<0.002	59.1
MW-5	6/6/03	<0.001	<0.001	<0.001	<0.001	48.6
MW-5	12/4/03	<0.001	<0.001	<0.001	<0.001	36.5
MW-5	7/2/04	<0.005	<0.005	<0.005	<0.005	32.9
MW-5	12/21/04	<0.005	<0.005	<0.005	<0.005	39.8
MW-5	6/6/05	<0.001	<0.001	<0.001	<0.001	41.1
MW-5	12/13/05	<0.005	<0.005	<0.005	<0.010	39.7
MW-5	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	43.2
MW-5	12/19/06	<0.005	<0.005	<0.005	<0.001	51
MW-5	6/27/07	<0.005	<0.005	<0.005	<0.001	67
MW-5	12/14/07	<0.005	<0.005	<0.005	<0.001	101
MW-5	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	78.7
MW-5	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	100
MW-5	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	140
MW-5	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	110
MW-5	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	115
MW-5	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	168
MW-5	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	134
MW-5	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	172
MW-5	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	137
MW-5	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	110
MW-5	6/14/13	<0.001	<0.002	<0.001	<0.001	66.6
MW-5	11/27/13	<0.001	<0.002	<0.001	<0.001	72.3
MW-5	8/1/14	<0.001	<0.002	<0.001	<0.003	69.5
MW-5	12/12/14	<0.001	<0.002	<0.001	<0.003	66.9
MW-5	6/9/15	<0.001	<0.002	<0.001	<0.003	69.1
MW-5	12/9/15	<0.001	<0.002	<0.001	<0.003	44
MW-5	6/21/16	<0.002	<0.002	<0.002	<0.002	39.9
MW-5	12/8/16	<0.002	<0.002	<0.002	<0.002	39.1
MW-5	6/14/17	<0.002	<0.002	<0.002	<0.002	42.1
MW-5	11/29/17	<0.002	<0.002	<0.002	<0.002	35.6
MW-5	6/14/18	<0.002	<0.002	<0.002	<0.002	37.6
MW-5	12/13/18	<0.002	<0.002	<0.002	<0.002	37.4
MW-5	5/6/19	<0.002	<0.002	<0.002	<0.002	114.0
MW-5	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	49.0

Table 2
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-6	7/28/98	<0.001	<0.001	<0.001	<0.001	43.0
MW-6	2/16/01	<0.005	<0.005	0.006	0.006	52
MW-6	6/12/02	<0.001	<0.001	<0.001	<0.001	54.1
MW-6	11/26/03	<0.001	<0.001	<0.001	<0.002	65
MW-6	6/6/03	<0.001	<0.001	<0.001	<0.001	43.7
MW-6	12/4/03	<0.001	<0.001	<0.001	<0.001	45.3
MW-6	7/2/04	<0.001	<0.001	<0.001	<0.001	57.5
MW-6	12/21/04	<0.005	<0.005	<0.005	<0.005	61.3
MW-6	6/6/05	<0.001	<0.001	<0.001	<0.001	66.7
MW-6	12/13/05	<0.005	<0.005	<0.005	<0.010	80.9
MW-6	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	86.4
MW-6	12/19/06	<0.005	<0.005	<0.005	<0.001	88
MW-6	3/16/07	<0.0005	<0.0005	<0.0005	<0.001	92.2
MW-6	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	110
MW-6	9/27/07	<0.0005	<0.0005	<0.0005	<0.001	99.5
MW-6	12/14/07	<0.0005	<0.0005	<0.0005	<0.001	99.2
MW-6	3/6/08	<0.00037	<0.00039	<0.00042	<0.00035	88.8
MW-6	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	117
MW-6	9/4/08	<0.00037	<0.00039	<0.00042	<0.00035	130
MW-6	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	130
MW-6	3/5/09	<0.00037	<0.00039	<0.00042	<0.00035	140
MW-6	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	160
MW-6	9/9/09	<0.00037	<0.00039	<0.00042	<0.00035	160
MW-6	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	140
MW-6	3/23/10	<0.0002	<0.0002	<0.0002	<0.0007	169
MW-6	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	161
DUP	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	169
MW-6	9/22/10	0.00033J	<0.0001	<0.0001	<0.0003	157
MW-6	11/9/10	<0.0001	<0.0001	0.0010	<0.0003	182
MW-6	3/3/11	<0.0001	<0.0001	<0.0001	<0.0003	225
MW-6	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	215
DUP	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	221
MW-6	9/27/11	<0.0001	<0.0001	<0.0001	<0.0003	222
MW-6	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	198
MW-6	3/7/12	<0.0001	<0.0001	<0.0001	<0.0001	189
MW-6	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	259
DUP	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	260
MW-6	9/20/12	<0.0001	<0.0001	<0.0001	<0.0001	221
MW-6	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	176
MW-6	3/14/13	<0.001	<0.002	<0.001	<0.001	195

Table 2
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-6	6/14/13	<0.001	<0.002	<0.001	<0.001	219
MW-6	9/13/13	<0.001	<0.002	<0.001	<0.001	209
MW-6	11/27/13	<0.001	<0.002	<0.001	<0.001	220
MW-6	3/21/14	<0.001	<0.002	<0.001	<0.003	231
MW-6	8/1/14	<0.001	<0.002	<0.001	<0.003	220
MW-6	9/22/14	<0.001	<0.002	<0.001	<0.003	186
MW-6	12/12/14	<0.001	<0.002	<0.001	<0.003	217
MW-6	3/31/15	<0.001	<0.002	<0.001	<0.003	201
MW-6	6/9/15	<0.001	<0.002	<0.001	<0.003	209
MW-6	9/16/15	<0.001	<0.002	<0.001	<0.003	212
MW-6	12/9/15	<0.001	<0.002	<0.001	<0.003	175
MW-6	3/7/16	<0.001	<0.002	<0.001	<0.001	218
MW-6	6/21/16	<0.002	<0.002	<0.002	<0.002	201
MW-6	8/31/16	<0.002	<0.002	<0.002	<0.002	222
MW-6	12/8/16	<0.002	<0.002	<0.002	<0.002	190
MW-6	3/9/17	<0.002	<0.002	<0.002	<0.002	182
MW-6	6/14/17	<0.002	<0.002	<0.002	<0.002	168
MW-6	9/5/17	<0.002	<0.002	<0.002	<0.002	151
MW-6	11/29/17	<0.002	<0.002	<0.002	<0.002	124
MW-6	3/22/18	<0.002	<0.002	<0.002	<0.002	127
MW-6	6/14/18	<0.002	<0.002	<0.002	<0.002	110
MW-6	9/6/18	<0.002	<0.002	<0.002	<0.002	106
MW-6	12/14/18	<0.002	<0.002	<0.002	<0.002	78.7
MW-6	2/7/19	<0.002	<0.002	<0.002	<0.002	100.0
MW-6	5/6/19	<0.002	<0.002	<0.002	<0.002	108.0
MW-6	8/2/19	<0.002	<0.002	<0.002	<0.002	112.0
DUP	8/2/19	<0.002	<0.002	<0.002	<0.002	115.0
MW-6	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	80.0
MW-7	7/28/98	<0.001	<0.001	<0.001	<0.001	82
MW-7	2/16/01	<0.005	<0.005	<0.005	<0.005	150
MW-7	6/12/02	<0.005	<0.005	<0.005	<0.005	96.7
MW-7	11/26/03	<0.001	<0.001	<0.001	<0.002	133
MW-7	6/6/03	<0.001	<0.001	<0.001	<0.001	199
MW-7	12/4/03	<0.001	<0.001	<0.001	<0.001	230
MW-7	7/2/04	<0.001	<0.001	<0.001	<0.001	215
MW-7	12/21/04	<0.005	<0.005	<0.005	<0.005	274
MW-7	6/6/05	<0.001	<0.001	<0.001	<0.001	221
MW-7	12/13/05	<0.005	<0.005	<0.005	<0.010	204
MW-7	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	158
MW-7	12/19/06	<0.005	<0.005	<0.005	<0.001	130
MW-7	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	110
MW-7	12/13/07	<0.0005	<0.0005	<0.0005	<0.001	135
MW-7	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	72.4

Table 2
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-7	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	66
MW-7	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	58
MW-7	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	47
MW-7	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	51.2
MW-7	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	67.1
MW-7	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	69.4
MW-7	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	76.6
MW-7	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	91.5
MW-7	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	67.7
MW-7	6/14/13	<0.001	<0.002	<0.001	<0.001	56.4
MW-7	11/27/13	<0.001	<0.002	<0.001	<0.001	78.1
MW-7	8/1/14	<0.001	<0.002	<0.001	<0.003	68.3
MW-7	12/12/14	<0.001	<0.002	<0.001	<0.003	122
MW-7	6/9/15	<0.001	<0.002	<0.001	<0.003	79.2
MW-7	12/9/15	<0.001	<0.002	<0.001	<0.003	94
MW-7	6/21/16	<0.002	<0.002	<0.002	<0.002	52.3
MW-7	12/8/16	<0.002	<0.002	<0.002	<0.002	69.0
MW-7	6/14/17	<0.002	<0.002	<0.002	<0.002	68.6
MW-7	11/29/17	<0.002	<0.002	<0.002	<0.002	62.6
MW-7	6/14/18	<0.002	<0.002	<0.002	<0.002	58.5
MW-7	12/13/18	<0.002	<0.002	<0.002	<0.002	49.9
MW-7	5/6/19	<0.002	<0.002	<0.002	<0.002	58.7
MW-7	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	50.0
MW-8	7/28/98	<0.001	<0.001	<0.001	<0.001	29
MW-8	2/16/01	<0.005	<0.005	<0.005	<0.005	94
MW-8	6/12/02	<0.005	<0.005	<0.005	<0.005	180
MW-8	11/26/03	<0.001	<0.001	<0.001	<0.002	239
MW-8	6/6/03	<0.001	<0.001	<0.001	<0.001	244
MW-8	12/4/03	<0.001	<0.001	<0.001	<0.001	251
MW-8	7/2/04	<0.005	<0.005	<0.005	<0.005	206
MW-8	12/21/04	<0.005	<0.005	<0.005	<0.005	244
MW-8	6/6/05	<0.0001	<0.0001	<0.0001	<0.0001	227
MW-8	12/13/05	<0.005	<0.005	<0.005	<0.010	144
MW-8	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	92.6
MW-8	12/19/06	<0.005	<0.005	<0.005	<0.001	83.0
MW-8	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	79
MW-8	12/13/07	<0.0005	<0.0005	<0.0005	<0.001	82.9
MW-8	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	54.9
MW-8	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	47
MW-8	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	45

Table 2
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
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Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-8	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	36
MW-8	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	38.4
MW-8	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	47.6
MW-8	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	51.8
MW-8	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	72.7
MW-8	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	95.7
MW-8	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	77.6
MW-8	6/14/13	<0.001	<0.002	<0.001	<0.001	83.3
DUP	6/14/13	<0.001	<0.002	<0.001	<0.001	84.3
MW-8	11/27/13	<0.001	<0.002	<0.001	<0.001	72.2
DUP	11/27/13	<0.001	<0.002	<0.001	<0.001	71.3
MW-8	8/1/14	<0.001	<0.002	<0.001	<0.003	63.2
MW-8	12/12/14	<0.001	<0.002	<0.001	<0.003	82.8
MW-8	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	79.8
DUP	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	84.6
MW-8	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	69.9
DUP	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	68.0
MW-8	6/21/16	<0.002	<0.002	<0.002	<0.002	74.4
DUP	6/21/16	<0.002	<0.002	<0.002	<0.002	68.0
MW-8	12/8/16	<0.002	<0.002	<0.002	<0.002	71.4
DUP	12/8/16	<0.002	<0.002	<0.002	<0.002	72.2
MW-8	6/14/17	<0.002	<0.002	<0.002	<0.002	67.1
DUP	6/14/17	<0.002	<0.002	<0.002	<0.002	63.8
MW-8	11/29/17	<0.002	<0.002	<0.002	<0.002	58.7
MW-8	6/14/18	<0.002	<0.002	<0.002	<0.002	68.0
DUP	6/14/18	<0.002	<0.002	<0.002	<0.002	67.9
MW-8	12/13/18	<0.002	<0.002	<0.002	<0.002	62.6
DUP	12/13/18	<0.002	<0.002	<0.002	<0.002	61.5
MW-8	5/6/19	<0.002	<0.002	<0.002	<0.002	102.0
MW-8	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	65.0
MW-9R	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	145
MW-9R	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	119
MW-9R	6/21/16	<0.002	<0.002	<0.002	<0.002	109
MW-9R	12/8/16	<0.002	<0.002	<0.002	<0.002	120
MW-9R	6/14/17	<0.002	<0.002	<0.002	<0.002	115
MW-9R	11/29/17	<0.002	<0.002	<0.002	<0.002	98
MW-9R	6/15/18	<0.002	<0.002	<0.002	<0.002	92.2
MW-9R	12/13/18	<0.002	<0.002	<0.002	<0.002	84.0
MW-9R	5/6/19	<0.002	<0.002	<0.002	<0.002	94.1
MW-9R	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	110.0

Table 2
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride	
New Mexico Water Quality Control Commission Groundwater Standard							
		0.005¹	1.0¹	0.7¹	0.62¹	250²	
WW-1	7/28/98	<0.001	<0.001	<0.001	<0.001	100	
WW-1	6/12/02	<0.001	<0.001	<0.001	<0.001	43.6	
WW-1	11/26/02	<0.001	<0.001	<0.001	<0.002	80	
WW-1	6/6/03	<0.001	<0.001	<0.001	<0.001	73.4	
WW-1	12/4/03	<0.001	<0.001	<0.001	<0.001	65.3	
WW-1	7/2/04	<0.001	<0.001	<0.001	<0.001	66.5	
WW-1	12/21/04	<0.005	<0.005	<0.005	<0.005	74.3	
WW-1	6/6/05	<0.0001	<0.0001	<0.0001	<0.0001	63.4	
WW-1	12/13/05	<0.005	<0.005	<0.005	<0.010	41.1	
WW-1	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	50	
WW-1	12/19/06	<0.005	<0.005	<0.005	<0.001	80.0	
WW-1	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	52	
WW-1	12/14/07	<0.0005	<0.0005	<0.0005	<0.001	59.8	
WW-1	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	64.1	
DUP	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	64.4	
WW-1	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	73	
WW-1	6/17/09	<0.00037	<0.00039	<0.00042	<0.00035	60	
WW-1	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	64	
WW-1	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	41	
WW-1	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	77	
WW-1	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	73.6	
WW-1	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	50.2	
WW-1	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	90	
WW-1	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	69.9	
WW-1	6/14/13	<0.001	<0.002	<0.001	<0.001	53.7	
WW-1	11/27/13	----- not sampled -----					
WW-1	8/1/14	<0.001	<0.002	<0.001	<0.003	56.4	
WW-1	12/12/14	<0.001	<0.002	<0.001	<0.003	71.6	
WW-1	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	64.8	
WW-1	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	45	
WW-1	6/21/16	<0.002	<0.002	<0.002	<0.002	37.0	
WW-1	12/8/16	<0.002	<0.002	<0.002	<0.002	42.1	
WW-1	6/14/17	<0.002	<0.002	<0.002	<0.002	34.0	
WW-1	11/29/17	<0.002	0.0559	0.225	0.0411	49.4	
DUP	11/29/17	<0.002	0.059	0.241	0.0456	49.0	
WW-1	12/21/17	<0.002	<0.002	<0.002	<0.002	--	
WW-1	6/15/18	<0.002	<0.002	<0.002	<0.002	42.6	
WW-1	12/18/18	<0.002	<0.002	<0.002	<0.002	45.3	
WW-1	5/6/19	<0.002	<0.002	<0.002	<0.002	60.4	
DUP	5/6/19	<0.002	<0.002	<0.002	<0.002	55.5	

Table 2
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005¹	1.0¹	0.7¹	0.62¹	250²
WW-2	6/12/02	<0.001	<0.001	<0.001	<0.001	53.7
WW-2	11/26/02	<0.001	<0.001	<0.001	<0.002	70.9
WW-2	6/6/03	<0.001	<0.001	<0.001	<0.001	71.1
WW-2	12/4/03	<0.001	<0.001	<0.001	<0.001	52.4
WW-2	7/2/04	<0.001	<0.001	<0.001	<0.001	51.0
WW-2	12/21/04	<0.005	<0.005	<0.005	<0.005	55.6
WW-2	6/6/05	<0.001	<0.001	<0.001	<0.001	55.3
WW-2	12/13/05	<0.005	<0.005	<0.005	<0.010	75.3
WW-2	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	69.7
WW-2	12/19/06	<0.005	<0.005	<0.005	<0.001	57.0
WW-2	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	46
WW-2	12/14/07	<0.0005	<0.0005	<0.0005	<0.001	83.1
WW-2	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	65.9
WW-2	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	73
WW-2	6/17/09	<0.00037	<0.00039	<0.00042	<0.00035	60
WW-2	11/20/09	----- not sampled -----				
WW-2	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	66.3
WW-2	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	77.2
WW-2	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	74.9
WW-2	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	76.5
WW-2	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	63.1
WW-2	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	50.3
WW-2	6/14/13	<0.001	<0.002	<0.001	<0.001	81.1
WW-2	11/27/13	----- not sampled -----				
WW-2	8/1/14	<0.001	<0.002	<0.001	<0.003	95.5
WW-2	12/12/14	<0.001	<0.002	<0.001	<0.003	112
WW-2	6/9/15	<0.001	<0.002	<0.001	<0.003	108
WW-2	12/9/15	<0.001	<0.002	<0.001	<0.003	45.8
WW-2	6/21/16	<0.002	<0.002	<0.002	<0.002	28.9
WW-2	12/8/16	<0.002	<0.002	<0.002	<0.002	39.1
WW-2	6/14/17	<0.002	<0.002	<0.002	<0.002	29.8
WW-2	11/29/17	<0.002	<0.002	<0.002	<0.002	39.8
WW-2	6/13/18	----- not sampled -----				
WW-2	12/14/18	<0.002	0.00715	<0.0020	0.0828	45.9
WW-2	2/7/19	<0.002	<0.002	<0.002	<0.002	41.5
WW-2	5/6/19	<0.002	<0.002	<0.002	<0.002	97.5
RW-1	6/5/08	0.0119	<0.0039	<0.0042	<0.0035	36.2
RW-1	6/17/09	0.012	0.0055	0.0018	0.012	49
RW-1	7/1/10	0.022	0.00070J	0.0027	0.017	41.1
RW-1	6/26/12	0.0113	<0.00100	0.00514	0.0350	44.1
RW-1	6/27/13	0.00745	0.00963	0.0101	0.0549	33.8
RW-1	8/1/14	0.0172	0.00226	0.00499	0.0237	36.2

Table 2
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005¹	1.0¹	0.7¹	0.62¹	250²
RW-1	6/9/15	0.0109	<0.00200	0.00373	0.0182	43.7
RW-1	12/9/15	----- not sampled -----				
RW-1	6/21/16	----- not sampled -----				
RW-1	12/8/16	0.0137	<0.002	<0.002	0.0089	74.9
RW-1	6/14/17	----- not sampled -----				
RW-1	11/29/17	0.0148	<0.002	0.00372	0.0108	101
RW-1	6/14/18	----- not sampled -----				
RW-1	12/14/18	<0.002	0.00363	<0.002	0.0137	131
RW-2	6/27/07	0.00287	<0.0025	<0.0025	0.0303	60
RW-2	6/5/08	<0.0037	<0.0039	<0.0042	<0.0035	51.1
RW-2	6/17/09	<0.00037	0.0046	<0.00042	0.016	44
RW-2	7/1/10	0.0016	<0.0002	<0.0002	0.0067	30.1
RW-2	6/26/12	<0.00100	<0.001	<0.001	0.00362	43.9
RW-2	6/14/13	0.00178	0.00268	0.00171	0.0262	30
RW-2	8/1/14	0.00103	0.00106	<0.001	0.00788	41
RW-2	12/12/14	0.00154	<0.002	<0.001	0.00348	52.7
RW-2	6/9/15	0.00112	<0.002	<0.001	<0.003	49.5
RW-2	12/9/15	<0.00100	<0.002	0.00102	0.00725	48
RW-2	6/21/16	<0.002	<0.002	<0.002	<0.002	44
RW-2	12/8/16	<0.002	<0.002	<0.002	<0.002	55.8
RW-2	6/14/17	0.00408	0.00219	<0.002	<0.002	62.3
RW-2	11/29/17	<0.002	<0.002	<0.002	<0.002	65.0
RW-2	6/15/18	0.00306	<0.002	<0.002	<0.002	72.4
RW-2	12/14/18	<0.002	<0.002	<0.002	0.00215	73.4
RW-3	6/11/02	<0.005	<0.005	<0.005	<0.005	25.9
RW-3	12/3/04	<0.001	<0.001	<0.001	<0.001	36.6
RW-3	6/27/07	0.00855	<0.0025	0.0122	0.027	130
RW-3	6/5/08	<0.0037	<0.0039	<0.0042	0.0129	90.6
RW-3	6/17/09	0.0052	0.0042	0.011	0.025	74
RW-3	11/20/09	<0.00037	0.001	0.0027	0.0076	60
DUP	11/20/09	<0.00037	0.0013	0.003	0.008	60
RW-3	7/1/10	0.0065	<0.0002	0.0066	0.003	68.3
RW-3	6/26/12	0.00682	<0.001	<0.001	<0.001	55.4
RW-3	6/14/13	0.0092	0.0291	0.0253	0.138	37.3
RW-3	8/1/14	0.00709	<0.002	<0.001	0.132	41.5
RW-3	12/12/14	0.00588	<0.002	<0.001	0.00691	47.7
RW-3	6/9/15	0.00512	<0.002	<0.001	0.00309	40
RW-3	12/9/15	0.00432	<0.002	<0.001	<0.003	39
RW-3	6/21/16	0.00408	<0.002	<0.002	<0.002	36.3
RW-3	12/8/16	0.00574	<0.002	<0.002	0.00265	45.3
RW-3	6/14/17	0.00850	<0.002	<0.002	<0.002	43.4
RW-3	11/29/17	0.00563	<0.002	<0.002	<0.002	49.1
RW-3	6/15/18	<0.002	<0.002	<0.002	<0.002	53.1
RW-3	12/14/18	0.00262	<0.002	<0.002	0.00322	55.4

Table 2
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005¹	1.0¹	0.7¹	0.62¹	250²
RW-4	6/26/12	0.00221	<0.001	0.00410	0.0188	65.1
RW-4	6/27/13	0.0245	0.0396	0.0779	0.196	43.1
RW-4	8/1/14	0.0155	0.00107	0.00766	0.0286	34.2
RW-4	6/9/15	0.0127	<0.002	0.00752	0.030	39.5
RW-4	12/9/15	----- not sampled -----				
RW-4	6/21/16	----- not sampled -----				
RW-4	12/8/16	0.0139	<0.002	0.00758	0.03070	45.7
RW-4	6/14/17	----- not sampled -----				
RW-4	11/29/17	0.0268	0.00761	0.03040	0.1310	48.9
RW-4	6/14/18	----- not sampled -----				
RW-4	12/14/18	107	390	47.6	252	<5.0

Notes:

Results shown in mg/L.

Data through June 6, 2005 provided by Larson & Associates, Inc.

Bold indicates detection above method detection limit.

Shaded cells indicate New Mexico Water Quality Control Commission (NMWQCC) exceedance.

¹Human Health Standards for Groundwater.

²Other Standards for Domestic Water Supply.

³RW-1 and RW-4 were sampled by dropping a disposable PVC bailer below the level of LNAPL.

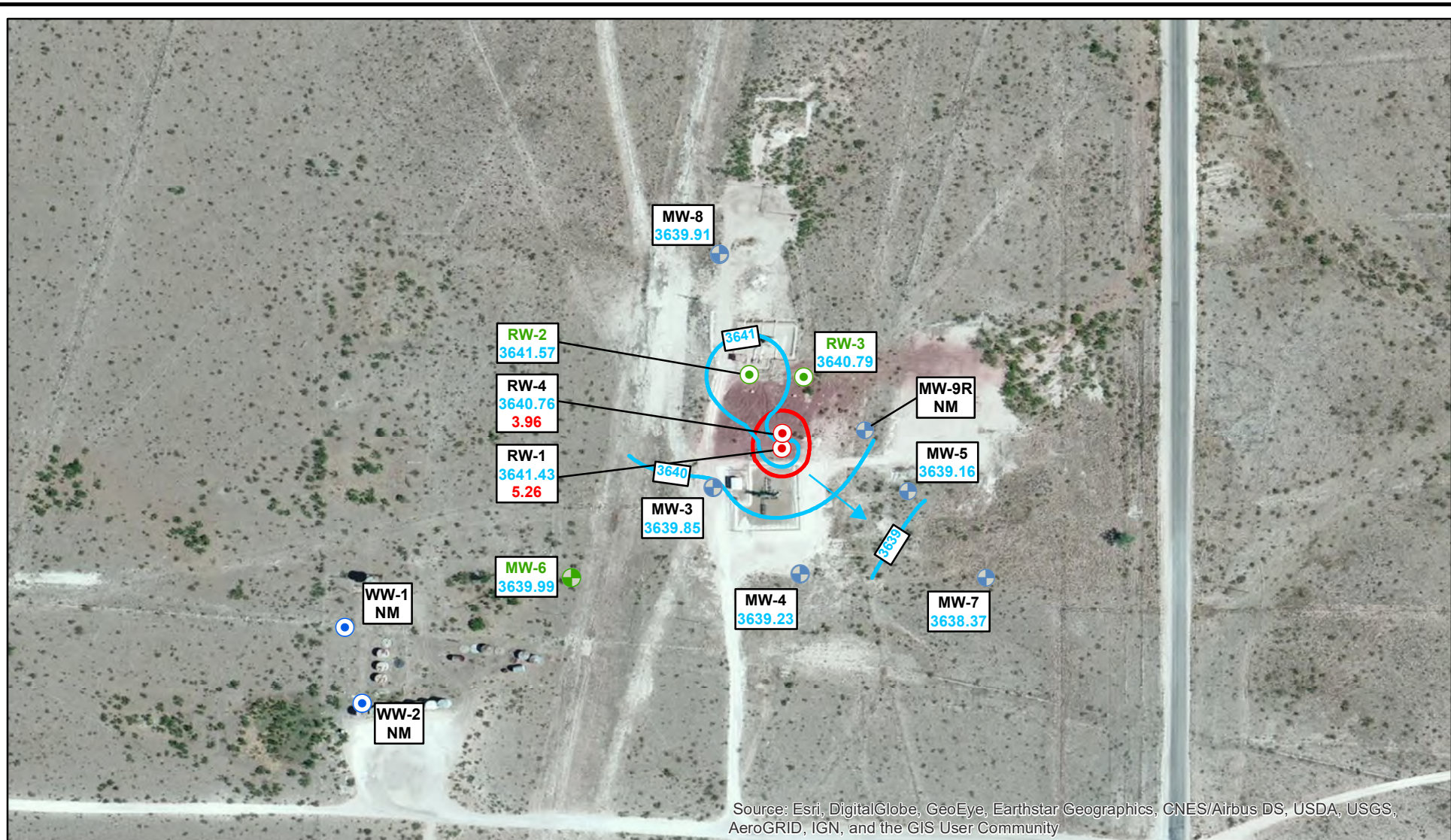
⁴MW-9R was installed May 19, 2015.

⁵ Sample was analyzed as a solid instead of a water due to oily nature of sample and results are in mg/kg.

FIGURES



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Legend

Monitoring Well Location	Monitoring Well Location Sampled During Reduced Event
Recovery Well Location	Recovery Well Location Sampled During Reduced Event
Water Well Location	
Potentiometric Contour and Elevation	
Inferred Potentiometric Contour	
Groundwater Elevation (ft above mean sea level)	
Approximate Groundwater Flow	
Approximate LNAPL Contour	LNAPL Thickness (ft)

Notes:

- Datum: D_WGS_1984
- Site Location: 32.643018, -103.301158
- NM: Not Measured
- RW-1 was omitted when developing potentiometric surface for Quarter 1 2019
- Monitoring wells and recovery wells in green are proposed to be sampled during the reduced sampling event (one semi-annual event)

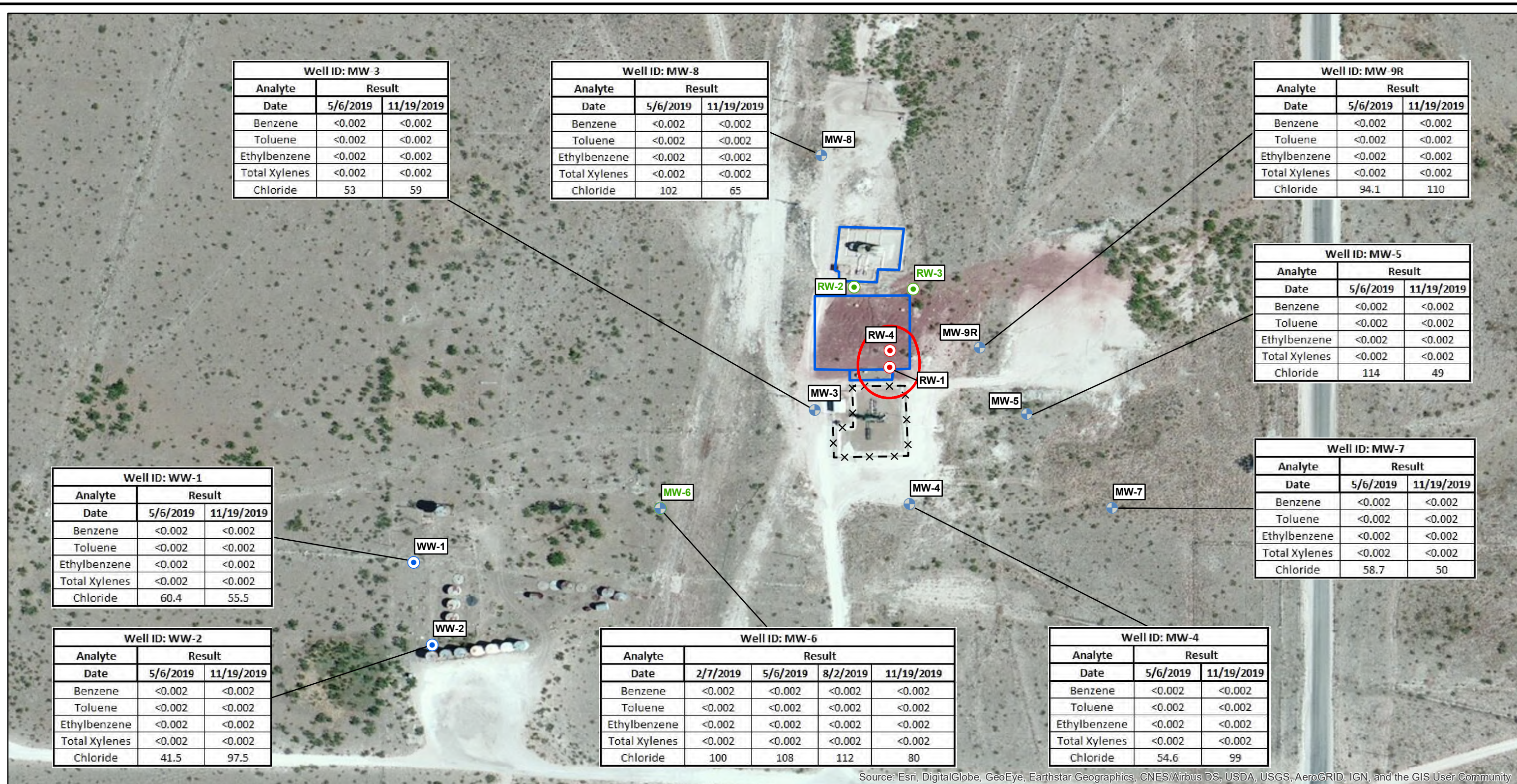
0 125 250 500 Feet

Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico

**POTENTIOMETRIC SURFACE MAP
NOVEMBER 2019**

ARCADIS | FIGURE 1

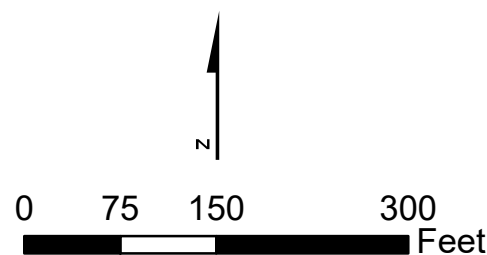
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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- Monitoring Well Location
- Monitoring Well Location Sampled During Reduced Event
- Recovery Well Location
- Recovery Well Location Sampled During Reduced Event
- Water Well
- Site Details
- x - x Fench Line
- Approximate LNAPL Countour (November 2019)



Note:

1. Datum: D_WGS_1984
2. Site Location: 32.643018, -103.301158
3. All wells sampled semi-annually.
4. MW-6 is sampled quarterly.
5. BTEX: Benzene, Toluene, Ethylbenzene, Total Xylenes
6. Monitoring wells and recovery wells in green are proposed to be sampled during the reduced sampling event (one semi-annual event)

Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico

PROPOSED GROUNDWATER MONITORING REDUCTION PLAN



Appendix C

Field Methodology



FIELD METHODS

Field equipment was decontaminated with an Alconox™ wash and distilled water rinse before beginning field activities and between wells. Groundwater gauging was conducted prior to sampling activities. Prior to sampling, static fluid water levels were measured with an electronic interface probe to the nearest hundredth of a foot and recorded. The monitoring wells were sampled using United States Environmental Protection Agency (USEPA) approved no purge methodology via Hydrasleeves™. Hydrasleeves™ were placed mid-screen within each well a minimum of 24-hours prior to sampling. All non-disposable groundwater sampling equipment was thoroughly decontaminated between measurements to prevent possible cross-contamination between wells. Laboratory-supplied sample containers were filled directly from the Hydrasleeve™.

Groundwater samples were placed on ice in insulated coolers and chilled to a temperature of approximately 4°C (40°F). Groundwater samples were submitted by Arcadis under chain-of-custody (COC) protocol to Pace Analytical for analysis of BTEX by Environmental Protection Agency (EPA) Method 8021B and chloride by Method 300.

Appendix D

Cumulative Summary of Groundwater Potentiometric Elevation Data

Appendix D
 Cumulative Groundwater Gauging Data
 Chevron Environmental Management Company
 Former New Mexico "F" State Tank Battery
 Lea County, New Mexico



Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ²)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ²)
MW-3 3696.85	7/28/98	59.53	---	---	3637.32	70.15	2.00	55 - 75
	6/25/99	59.06	---	---	3637.79	---		
	2/16/01	59.53	---	---	3637.32	---		
	6/11/02	59.18	---	---	3637.67	---		
	11/26/02	59.54	---	---	3637.31	---		
	6/5/03	59.45	---	---	3637.40	---		
	12/3/03	59.47	---	---	3637.38	---		
	7/1/04	59.24	---	---	3637.61	---		
	12/20/04	58.83	---	---	3638.02	---		
	6/6/05	58.53	---	---	3638.32	---		
	12/12/05	57.83	---	---	3639.02	---		
	1/25/06	57.85	---	---	3639.00	---		
	5/1/06	57.59	---	---	3639.26	---		
	6/26/06	57.66	---	---	3639.19	---		
	12/18/06	57.54	---	---	3639.31	---		
	3/16/07	57.43	---	---	3639.42	---		
	6/26/07	57.31	---	---	3639.54	---		
	9/27/07	57.89	---	---	3638.96	---		
	12/13/07	57.61	---	---	3639.24	---		
	3/6/08	57.70	---	---	3639.15	---		
	6/4/08	57.33	---	---	3639.52	---		
	9/4/08	57.45	---	---	3639.40	---		
	11/13/08	57.26	---	---	3639.59	---		
	3/5/09	57.65	---	---	3639.20	---		
	6/15/09	57.40	---	---	3639.45	---		
	9/9/09	57.64	---	---	3639.21	---		
	11/19/09	57.59	---	---	3639.26	---		
	3/23/10	57.60	---	---	3639.25	---		
	6/29/10	58.34	---	---	3638.51	---		
	9/22/10	58.35	---	---	3638.50	---		
11/8/10	57.61	---	---	3639.24	---			
6/2/11	57.49	---	---	3639.36	---			
12/1/11	58.42	---	---	3638.43	---			
3/7/12	57.92	---	---	3638.93	---			
6/26/12	57.89	---	---	3638.96	---			
9/20/12	58.14	---	---	3638.71	---			
11/26/12	58.15	---	---	3638.70	---			
3/14/13	58.10	---	---	3638.75	---			
6/14/13	58.64	58.63	0.01	3638.22	---			
9/13/13	58.48	---	---	3638.37	---			
11/20/13	58.02	---	---	3638.83	---			

Appendix D
 Cumulative Groundwater Gauging Data
 Chevron Environmental Management Company
 Former New Mexico "F" State Tank Battery
 Lea County, New Mexico



Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ¹)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ⁴)
MW-3 Cont.	3/20/14	57.89	---	---	3638.96	68.09		
	7/31/14	57.88	---	---	3638.97	67.97		
	9/22/14				not gauged			
	12/12/14	57.46	---	---	3639.39	---		
	3/31/15				not gauged			
	6/9/15	57.22	---	---	3639.63	67.75		
	9/16/15	56.97	---	---	3639.88	67.97		
	12/9/15	56.57	---	---	3640.28	67.92		
	3/7/16	56.50	---	---	3640.35	67.89		
	6/21/16	56.51	---	---	3640.34	67.92		
	8/31/16	56.82	---	---	3640.03	67.88		
	12/8/16	56.54	---	---	3640.31	67.94		
	3/9/17	56.27	---	---	3640.58	---		
	6/13/17	56.22	---	---	3640.63	67.87		
	9/5/17	56.40	---	---	3640.45	---		
	11/28/17	56.30	---	---	3640.55	---		
	3/22/18	56.25	---	---	3640.60	---		
	6/14/18	52.23	---	---	3644.62	67.79		
	9/6/18	56.45	---	---	3640.40	67.71		
	12/13/18	56.54	---	---	3640.31	67.81		
	2/7/19	56.72	---	---	3640.13	67.78		
	5/2/19	56.91	---	---	3639.94	67.70		
	8/1/19	56.88	---	---	3639.97	67.66		
	11/18/19	57.00	---	---	3639.85	69.65		
	3/26/20	57.15	---	---	3639.70	67.65		
	6/22/20	57.40	---	---	3639.45	67.87		
	8/20/20	57.39	---	---	3639.46	---		
	3/16/21	57.57	---	---	3639.28	---		
	5/18/21	57.69	---	---	3639.16	67.76		
	7/19/21	57.84	---	---	3639.01	---		
	11/4/21	57.93	---	---	3638.92	---		
	3/8/22	57.83	---	---	3639.02	67.83		
	6/8/22	58.09	---	---	3638.76	---		
8/15/22	58.05	---	---	3638.80	65.93			
11/18/22	58.22	---	---	3638.63	67.70			
3/9/23	58.33	---	---	3638.52	---			
6/12/23	58.38	---	---	3638.47	67.75			
8/8/23	58.39	---	---	3638.46	99.00			
11/14/23	58.57	---	---	3638.28	67.98			
3/12/24	58.62	---	---	3638.23	67.75			
6/10/24	58.72	---	---	3638.13	61.21			
9/18/24	58.94	---	---	3637.91	67.83			
11/11/24	59.02	---	---	3637.83	67.59			
3/18/25	58.99	---	---	3637.86	---			
6/11/25	59.16	---	---	3637.69	---			
8/27/25	59.30	---	---	3637.55	---			
11/14/25	59.45	---	---	3637.40	66.50			

Appendix D
 Cumulative Groundwater Gauging Data
 Chevron Environmental Management Company
 Former New Mexico "F" State Tank Battery
 Lea County, New Mexico



Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ³)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ⁴)
MW-4 3699.50	7/28/98	69.72	---	---	3629.78	68.74	2.00	55 - 75
	6/25/99	62.31	---	---	3637.19	---		
	2/16/01	62.52	---	---	3636.98	---		
	6/11/02	62.39	---	---	3637.11	---		
	11/26/02	62.76	---	---	3636.74	---		
	6/5/03	62.71	---	---	3636.79	---		
	12/3/03	62.67	---	---	3636.83	---		
	7/1/04	62.43	---	---	3637.07	---		
	12/20/04	62.02	---	---	3637.48	---		
	6/6/05	61.67	---	---	3637.83	---		
	12/12/05	61.11	---	---	3638.39	---		
	1/25/06	61.11	---	---	3638.39	---		
	5/1/06	60.89	---	---	3638.61	---		
	6/26/06	60.93	---	---	3638.57	---		
	12/18/06	60.79	---	---	3638.71	---		
	3/16/07	60.72	---	---	3638.78	---		
	6/26/07	60.60	---	---	3638.90	---		
	9/27/07	61.02	---	---	3638.48	---		
	12/13/07	60.88	---	---	3638.62	---		
	3/6/08	60.96	---	---	3638.54	---		
	6/4/08	60.65	---	---	3638.85	---		
	9/4/08	60.75	---	---	3638.75	---		
	11/13/08	60.61	---	---	3638.89	---		
	3/5/09	60.75	---	---	3638.75	---		
	6/15/09	60.70	---	---	3638.80	---		
	9/9/09	60.89	---	---	3638.61	---		
	11/19/09	60.83	---	---	3638.67	---		
	3/23/10	60.91	---	---	3638.59	---		
	6/29/10	61.54	---	---	3637.96	---		
	9/22/10	61.53	---	---	3637.97	---		
11/8/10	60.96	---	---	3638.54	---			
6/2/11	60.85	---	---	3638.65	---			
12/1/11	61.63	---	---	3637.87	---			
3/7/12	61.16	---	---	3638.34	---			
6/26/12	61.16	---	---	3638.34	---			
9/20/12	61.33	---	---	3638.17	---			
11/26/12	61.40	---	---	3638.10	---			
3/14/13	61.75	---	---	3637.75	---			
6/14/13	61.80	---	---	3637.70	---			
9/13/13	61.70	---	---	3637.80	---			
11/20/13	61.18	---	---	3638.32	---			

Appendix D
 Cumulative Groundwater Gauging Data
 Chevron Environmental Management Company
 Former New Mexico "F" State Tank Battery
 Lea County, New Mexico



Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ¹)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ⁴)
MW-4 Cont.	3/20/14	61.99	---	---	3637.51	63.65		
	7/31/14	61.03	---	---	3638.47	63.60		
	9/22/14				not gauged			
	12/12/14	60.71	---	---	3638.79	---		
	3/31/15				not gauged			
	6/9/15	60.47	---	---	3639.03	63.63		
	9/16/15	60.29	---	---	3639.21	63.65		
	12/9/15	59.93	---	---	3639.57	---		
	3/7/16	59.82	---	---	3639.68	63.65		
	6/21/16	59.83	---	---	3639.67	63.67		
	8/31/16	60.14	---	---	3639.36	63.66		
	12/8/16	59.88	---	---	3639.62	63.67		
	3/9/17	59.60	---	---	3639.90	---		
	6/13/17	59.55	---	---	3639.95	63.62		
	9/5/17	59.70	---	---	3639.80	---		
	11/28/17	59.60	---	---	3639.90	---		
	3/22/18	59.61	---	---	3639.89	---		
	6/14/18	59.61	---	---	3639.89	63.71		
	9/6/18	59.80	---	---	3639.70	63.70		
	12/13/18	59.96	---	---	3639.54	63.61		
	2/7/19	60.03	---	---	3639.47	63.66		
	5/2/19	60.18	---	---	3639.32	63.68		
	8/1/19	60.14	---	---	3639.36	63.66		
	11/18/19	60.27	---	---	3639.23	64.81		
	3/26/20	60.48	---	---	3639.02	63.69		
	6/22/20	60.61	---	---	3638.89	63.81		
	8/20/20	60.69	---	---	3638.81	---		
	3/16/21	60.83	---	---	3638.67	---		
	5/18/21	60.98	---	---	3638.52	63.74		
	7/19/21	61.11	---	---	3638.39	---		
	11/4/21	61.19	---	---	3638.31	---		
	3/8/22	61.13	---	---	3638.37	63.74		
	6/8/22	61.35	---	---	3638.15	63.74		
	8/15/22	61.32	---	---	3638.18	63.73		
	11/18/22	61.48	---	---	3638.02	63.74		
	3/9/23	61.59	---	---	3637.91	---		
6/12/23	61.66	---	---	3637.84	63.75			
8/8/23	61.67	---	---	3637.83	63.73			
11/14/23	61.82	---	---	3637.68	63.80			
3/12/24	62.90	---	---	3636.60	63.75			
6/10/24	62.05	---	---	3637.45	63.75			
9/18/24	62.18	---	---	3637.32	63.74			
11/11/24	60.24	---	---	3639.26	63.71			
3/18/25	63.23	---	---	3636.27	---			
6/11/25	62.42	---	---	3637.08	---			
8/27/25	62.55	---	---	3636.95	---			
11/14/25	62.57	---	---	3636.93	---			

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 Cumulative Groundwater Gauging Data
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 Lea County, New Mexico



Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ¹)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ⁴)
MW-5 3693.52	7/28/98	56.53	---	---	3636.99	66.80	2.00	48 - 68
	3/23/99	56.30	---	---	3637.22	---		
	6/25/99	56.21	---	---	3637.31	---		
	2/16/01	56.31	---	---	3637.21	---		
	6/11/02	56.29	---	---	3637.23	---		
	11/26/02	56.13	---	---	3637.39	---		
	6/5/03	56.53	---	---	3636.99	---		
	12/3/03	56.57	---	---	3636.95	---		
	7/1/04	54.34	---	---	3639.18	---		
	12/20/04	55.86	---	---	3637.66	---		
	6/6/05	55.60	---	---	3637.92	---		
	12/12/05	55.04	---	---	3638.48	---		
	1/25/06	55.07	---	---	3638.45	---		
	5/1/06	54.87	---	---	3638.65	---		
	6/26/06	54.86	---	---	3638.66	---		
	12/18/06	54.61	---	---	3638.91	---		
	3/16/07	54.51	---	---	3639.01	---		
	6/26/07	54.49	---	---	3639.03	---		
	9/27/07	54.84	---	---	3638.68	---		
	12/13/07	54.74	---	---	3638.78	---		
	3/6/08	54.77	---	---	3638.75	---		
	6/4/08	54.58	---	---	3638.94	---		
	9/4/08	54.68	---	---	3638.84	---		
	11/13/08	54.57	---	---	3638.95	---		
	3/5/09	54.70	---	---	3638.82	---		
	6/15/09	54.69	---	---	3638.83	---		
	9/9/09	54.86	---	---	3638.66	---		
	11/19/09	54.81	---	---	3638.71	---		
	3/23/10	54.80	---	---	3638.72	---		
	6/29/10	55.38	---	---	3638.14	---		
	9/22/10	55.40	---	---	3638.12	---		
	11/8/10	54.84	---	---	3638.68	---		
	6/2/11	55.79	---	---	3637.73	---		
12/1/11	55.49	---	---	3638.03	---			
3/7/12	54.14	---	---	3639.38	---			
6/26/12	55.14	---	---	3638.38	---			
9/20/12	55.28	---	---	3638.24	---			
11/26/12	55.37	---	---	3638.15	---			
3/14/13	55.30	---	---	3638.22	---			
6/14/13	55.60	---	---	3637.92	---			
9/13/13	55.54	---	---	3637.98	---			

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 Cumulative Groundwater Gauging Data
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 Former New Mexico "F" State Tank Battery
 Lea County, New Mexico



Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ¹)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ⁴)
MW-5 Cont.	11/20/13	55.34	---	---	3638.18	---		
	3/20/14	55.02	---	---	3638.50	65.04		
	7/31/14	54.92	---	---	3638.60	64.93		
	9/22/14				not gauged			
	12/12/14	54.58	---	---	3638.94	---		
	3/31/15				not gauged			
	6/9/15	54.32	---	---	3639.20	64.86		
	9/16/15	54.22	---	---	3639.30	64.91		
	12/9/15	53.94	---	---	3639.58	64.85		
	3/7/16	53.85	---	---	3639.67	64.85		
	6/21/16	53.86	---	---	3639.66	64.80		
	8/31/16	54.10	---	---	3639.42	64.83		
	12/8/16	53.79	---	---	3639.73	64.80		
	3/9/17	53.71	---	---	3639.81	---		
	6/13/17	53.60	---	---	3639.92	64.80		
	9/5/17	53.75	---	---	3639.77	---		
	11/28/17	53.69	---	---	3639.83	---		
	3/22/18	53.65	---	---	3639.87	---		
	6/14/18	52.63	---	---	3640.89	55.83		
	9/6/18	53.80	---	---	3639.72	64.78		
	12/13/18	53.81	---	---	3639.71	64.73		
	2/7/19	53.95	---	---	3639.57	64.70		
	5/2/19	54.12	---	---	3639.40	64.70		
	8/1/19	54.14	---	---	3639.38	64.70		
	11/18/19	54.36	---	---	3639.16	65.85		
	3/26/20	54.55	---	---	3638.97	64.71		
	6/22/20	54.64	---	---	3638.88	64.81		
	8/20/20	55.76	---	---	3637.76	---		
	3/16/21	54.90	---	---	3638.62	---		
	5/18/21	55.56	---	---	3637.96	---		
	7/19/21	55.15	---	---	3638.37	---		
	11/4/21	55.21	---	---	3638.31	---		
	3/8/22	55.22	---	---	3638.30	64.83		
6/8/22	55.40	---	---	3638.12	---			
8/15/22	33.06	---	---	3660.46	64.79			
11/18/22	55.54	---	---	3637.98	64.82			
3/9/23	55.67	---	---	3637.85	---			
6/12/23	55.73	---	---	3637.79	64.80			
8/8/23	55.76	---	---	3637.76	64.80			
11/14/23	55.89	---	---	3637.63	64.81			
3/12/24	55.95	---	---	3637.57	64.80			
6/10/24	56.50	---	---	3637.02	64.80			
9/18/24	56.25	---	---	3637.27	64.74			
11/11/24	56.31	---	---	3637.21	64.69			
3/18/25	56.33	---	---	3637.19	---			
6/11/25	56.48	---	---	3637.04	---			
8/27/25	56.50	---	---	3637.02	---			
11/14/25	56.61	---	---	3636.91	64.80			

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Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ¹)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ⁴)
MW-6 3704.81	7/28/98	67.86	---	---	3636.95	78.25	2.00	56 - 76
	6/25/99	67.25	---	---	3637.56	---		
	2/16/01	67.45	---	---	3637.36	---		
	6/11/02	67.19	---	---	3637.62	---		
	11/26/02	67.09	---	---	3637.72	---		
	6/5/03	67.57	---	---	3637.24	---		
	12/3/03	67.61	---	---	3637.20	---		
	7/1/04	67.43	---	---	3637.38	---		
	12/20/04	67.55	---	---	3637.26	---		
	6/6/05	66.41	---	---	3638.40	---		
	12/12/05	65.80	---	---	3639.01	---		
	1/25/06	65.88	---	---	3638.93	---		
	5/1/06	65.57	---	---	3639.24	---		
	6/26/06	65.82	---	---	3638.99	---		
	12/18/06	65.67	---	---	3639.14	---		
	3/16/07	65.69	---	---	3639.12	---		
	6/26/07	65.41	---	---	3639.40	---		
	9/27/07	66.46	---	---	3638.35	---		
	12/13/07	65.85	---	---	3638.96	---		
	3/6/08	65.68	---	---	3639.13	---		
	6/4/08	65.39	---	---	3639.42	---		
	9/4/08	65.56	---	---	3639.25	---		
	11/13/08	65.32	---	---	3639.49	---		
	3/5/09	65.88	---	---	3638.93	---		
	6/15/09	65.38	---	---	3639.43	---		
	9/9/09	65.67	---	---	3639.14	---		
	11/19/09	65.70	---	---	3639.11	---		
	3/23/10	65.69	---	---	3639.12	---		
	6/29/10	66.69	---	---	3638.12	---		
	9/22/10	66.72	---	---	3638.09	---		
	11/8/10	65.75	---	---	3639.06	---		
	3/3/11	65.52	---	---	3639.29	---		
	6/2/11	65.28	---	---	3639.53	---		
9/27/11	67.49	---	---	3637.32	---			
12/1/11	66.55	---	---	3638.26	---			
3/7/12	66.00	---	---	3638.81	---			
6/26/12	65.92	---	---	3638.89	---			
9/20/12	66.53	---	---	3638.28	---			
11/26/12	66.19	---	---	3638.62	---			
3/14/13	65.96	---	---	3638.85	---			
6/14/13	67.08	---	---	3637.73	---			
9/13/13	66.75	---	---	3638.06	---			
11/20/13	65.94	---	---	3638.87	---			
3/20/14	66.24	---	---	3638.57	75.54			
7/31/14	66.49	---	---	3638.32	75.43			
9/22/14	66.84	---	---	3637.97	---			

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Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ¹)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ¹)
MW-6 Cont.	12/12/14	65.63	---	---	3639.18	---		
	3/31/15	65.24	---	---	3639.57	75.44		
	6/9/15	65.61	---	---	3639.20	75.08		
	9/16/15	64.99	---	---	3639.82	75.00		
	12/9/15	64.63	---	---	3640.18	74.91		
	3/7/16	64.39	---	---	3640.42	74.91		
	6/21/16	64.45	---	---	3640.36	74.35		
	8/31/16	64.95	---	---	3639.86	74.80		
	12/8/16	64.56	---	---	3640.25	74.78		
	3/9/17	64.10	---	---	3640.71	---		
	6/13/17	64.06	---	---	3640.75	74.85		
	9/5/17	64.40	---	---	3640.41	---		
	11/28/17	64.28	---	---	3640.53	---		
	3/22/18	64.22	---	---	3640.59	---		
	6/14/18	64.05	---	---	3640.76	73.25		
	9/6/18	64.33	---	---	3640.48	73.35		
	12/13/18	64.48	---	---	3640.33	73.61		
	2/7/19	64.71	---	---	3640.10	73.44		
	5/2/19	65.06	---	---	3639.75	73.89		
	8/1/19	64.79	---	---	3640.02	73.41		
	11/18/19	64.82	---	---	3639.99	74.91		
	3/26/20	65.05	---	---	3639.76	73.55		
	6/22/20	65.16	---	---	3639.65	73.62		
	8/20/20	65.26	---	---	3639.55	---		
	11/9/20	65.43	---	---	3639.38	---		
	3/16/21	65.43	---	---	3639.38	---		
	5/18/21	65.75	---	---	3639.06	73.58		
	7/19/21	65.83	---	---	3638.98	73.77		
	11/4/21	65.97	---	---	3638.84	---		
	3/8/22	65.72	---	---	3639.09	73.83		
	6/8/22	65.93	---	---	3638.88	---		
	8/15/22	65.93	---	---	3638.88	79.84		
	11/18/22	66.23	---	---	3638.58	73.84		
	3/9/23	66.20	---	---	3638.61	---		
	6/12/23	66.29	---	---	3638.52	73.82		
	8/8/23	66.25	---	---	3638.56	73.83		
	11/14/23	66.48	---	---	3638.33	73.94		
	3/12/24	66.52	---	---	3638.29	73.95		
	6/10/24	66.75	---	---	3638.06	73.90		
	9/18/24	66.83	---	---	3637.98	73.93		
11/11/24	66.93	---	---	3637.88	73.87			
3/18/25	66.83	---	---	3637.98	---			
6/11/25	67.03	---	---	3637.78	---			
8/27/25	67.32	---	---	3637.49	---			
11/14/25	67.32	---	---	3637.49	73.90			

Appendix D
 Cumulative Groundwater Gauging Data
 Chevron Environmental Management Company
 Former New Mexico "F" State Tank Battery
 Lea County, New Mexico



Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ¹)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ⁴)
MW-7 3694.58	7/28/98	58.08	---	---	3636.50	68.88	2.00	49 - 69
	6/25/99	57.96	---	---	3636.62	---		
	2/16/01	58.09	---	---	3636.49	---		
	6/11/02	58.07	---	---	3636.51	---		
	11/26/02	57.92	---	---	3636.66	---		
	6/5/03	58.29	---	---	3636.29	---		
	12/3/03	58.33	---	---	3636.25	---		
	7/1/04	58.11	---	---	3636.47	---		
	12/20/04	57.62	---	---	3636.96	---		
	6/6/05	57.28	---	---	3637.30	---		
	12/12/05	56.84	---	---	3637.74	---		
	1/25/06	56.86	---	---	3637.72	---		
	5/1/06	56.69	---	---	3637.89	---		
	6/26/06	56.66	---	---	3637.92	---		
	12/18/06	56.40	---	---	3638.18	---		
	3/16/07	56.28	---	---	3638.30	---		
	6/26/07	56.29	---	---	3638.29	---		
	9/27/07	56.59	---	---	3637.99	---		
	12/13/07	56.51	---	---	3638.07	---		
	3/6/08	56.56	---	---	3638.02	---		
	6/4/08	56.38	---	---	3638.20	---		
	9/4/08	56.49	---	---	3638.09	---		
	11/13/08	56.40	---	---	3638.18	---		
	3/5/09	56.48	---	---	3638.10	---		
	6/15/09	56.51	---	---	3638.07	---		
	9/9/09	56.64	---	---	3637.94	---		
	11/19/09	56.59	---	---	3637.99	---		
	3/23/10	56.63	---	---	3637.95	---		
6/29/10	57.13	---	---	3637.45	---			
9/22/10	57.15	---	---	3637.43	---			
11/8/10	56.61	---	---	3637.97	---			
6/2/11	56.58	---	---	3638.00	---			
12/1/11	57.22	---	---	3637.36	---			
3/7/12	56.92	---	---	3637.66	---			
6/26/12	56.93	---	---	3637.65	---			
9/20/12	57.01	---	---	3637.57	---			
11/26/12	57.13	---	---	3637.45	---			

Appendix D
 Cumulative Groundwater Gauging Data
 Chevron Environmental Management Company
 Former New Mexico "F" State Tank Battery
 Lea County, New Mexico



Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ¹)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ⁴)
MW-7 Cont.	3/14/13	57.02	---	---	3637.56	---		
	6/14/13	57.26	---	---	3637.32	---		
	9/13/13	57.30	---	---	3637.28	---		
	11/20/13	56.93	---	---	3637.65	---		
	3/20/14	56.77	---	---	3637.81	65.09		
	7/31/14	56.63	---	---	3637.95	65.09		
	9/22/14				not gauged			
	12/12/14	56.40	---	---	3638.18	---		
	3/31/15				not gauged			
	6/9/15	56.12	---	---	3638.46	64.91		
	9/16/15	56.04	---	---	3638.54	64.82		
	12/9/15	55.84	---	---	3638.74	---		
	3/7/16	55.72	---	---	3638.86	64.63		
	6/21/16	55.72	---	---	3638.86	64.60		
	8/31/16	54.94	---	---	3639.64	64.62		
	12/8/16	55.64	---	---	3638.94	64.48		
	3/9/17	55.57	---	---	3639.01	---		
	6/13/17	55.51	---	---	3639.07	64.67		
	9/5/17	55.60	---	---	3638.98	---		
	11/28/17	55.49	---	---	3639.09	---		
	3/22/18	55.61	---	---	3638.97	---		
	6/14/18	55.53	---	---	3639.05	64.48		
	9/6/18	55.80	---	---	3638.78	64.31		
	12/13/18	55.70	---	---	3638.88	64.30		
	2/7/19	55.79	---	---	3638.79	64.11		
	5/2/19	55.97	---	---	3638.61	64.13		
	8/1/19	55.98	---	---	3638.60	63.71		
	11/18/19	56.21	---	---	3638.37	64.70		
	3/26/20	56.39	---	---	3638.19	63.69		
	6/22/20	56.49	---	---	3638.09	63.75		
	8/20/20	56.59	---	---	3637.99	---		
	3/16/21	56.76	---	---	3637.82	---		
	5/18/21	56.89	---	---	3637.69	---		
	7/19/21	56.98	---	---	3637.60	---		
	11/4/21	57.03	---	---	3637.55	---		
	3/8/22	56.76	---	---	3637.82	---		
	6/8/22	57.19	---	---	3637.39	---		
	8/15/22	57.20	---	---	3637.38	63.72		
	11/18/22	57.34	---	---	3637.24	63.75		
	3/9/23	58.87	---	---	3635.71	---		
6/12/23	57.52	---	---	3637.06	63.75			
8/8/23	57.54	---	---	3637.04	63.72			
11/14/23	57.67	---	---	3636.91	63.81			
3/12/24	57.76	---	---	3636.82	63.75			
6/10/24	57.86	---	---	3636.72	63.71			
9/18/24	58.03	---	---	3636.55	63.71			
11/11/24	58.07	---	---	3636.51	63.62			
3/18/25	58.11	---	---	3636.47	---			
6/11/25	58.26	---	---	3636.32	---			
8/27/25	58.26	---	---	3636.32	---			
11/14/25	58.35	---	---	3636.23	63.71			

Appendix D
 Cumulative Groundwater Gauging Data
 Chevron Environmental Management Company
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Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ²)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ²)
MW-8 3694.58	7/28/98	56.84	---	---	3637.74	66.91	2.00	46 - 66
	6/25/99	56.56	---	---	3638.02	---		
	2/16/01	56.49	---	---	3638.09	---		
	6/11/02	56.56	---	---	3638.02	---		
	11/26/02	56.88	---	---	3637.70	---		
	6/5/03	56.89	---	---	3637.69	---		
	12/3/03	56.91	---	---	3637.67	---		
	7/1/04	56.70	---	---	3637.88	---		
	12/20/04	56.23	---	---	3638.35	---		
	6/6/05	55.86	---	---	3638.72	---		
	12/12/05	55.29	---	---	3639.29	---		
	1/25/06	55.30	---	---	3639.28	---		
	5/1/06	55.03	---	---	3639.55	---		
	6/26/06	54.96	---	---	3639.62	---		
	12/18/06	54.80	---	---	3639.78	---		
	3/16/07	54.68	---	---	3639.90	---		
	6/26/07	54.67	---	---	3639.91	---		
	9/27/07	54.95	---	---	3639.63	---		
	12/13/07	54.82	---	---	3639.76	---		
	3/6/08	54.82	---	---	3639.76	---		
	6/4/08	54.70	---	---	3639.88	---		
	9/4/08	54.77	---	---	3639.81	---		
	11/13/08	54.73	---	---	3639.85	---		
	3/5/09	55.05	---	---	3639.53	---		
	6/15/09	54.96	---	---	3639.62	---		
	9/9/09	55.14	---	---	3639.44	---		
	11/19/09	55.12	---	---	3639.46	---		
	3/23/10	55.16	---	---	3639.42	---		
	6/29/10	55.66	---	---	3638.92	---		
	9/22/10	55.65	---	---	3638.93	---		
	11/8/10	55.12	---	---	3639.46	---		
	6/2/11	55.02	---	---	3639.56	---		
	12/1/11	55.73	---	---	3638.85	---		
	3/7/12	55.46	---	---	3639.12	---		
	6/26/12	55.46	---	---	3639.12	---		
	9/20/12	55.50	---	---	3639.08	---		
	11/26/12	55.57	---	---	3639.01	---		
	3/14/13	55.38	---	---	3639.20	---		
	6/14/13	55.61	---	---	3638.97	---		
	9/13/13	55.65	---	---	3638.93	---		
	11/20/13	55.43	---	---	3639.15	---		
3/20/14	55.22	---	---	3639.36	61.11			
7/31/14	55.19	---	---	3639.39	61.40			
9/22/14				not gauged				
12/12/14	54.75	---	---	3639.83	---			
3/31/15				not gauged				
6/9/15	54.43	---	---	3640.15	61.13			

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Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ³)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ⁴)
MW-8 Cont.	9/16/15	54.33	---	---	3640.25	61.15		
	12/9/15	54.28	---	---	3640.30	---		
	3/7/16	54.01	---	---	3640.57	61.14		
	6/21/16	54.02	---	---	3640.56	61.18		
	8/31/16	54.20	---	---	3640.38	61.25		
	12/8/16	53.82	---	---	3640.76	61.01		
	3/9/17	53.75	---	---	3640.83	---		
	6/13/17	53.75	---	---	3640.83	64.91		
	9/5/17	53.80	---	---	3640.78	---		
	11/28/17	53.70	---	---	3640.88	---		
	3/22/18	53.70	--	--	3640.88	--		
	6/14/18	53.77	--	--	3640.81	61.21		
	9/6/18	54.00	--	--	3640.58	61.15		
	12/13/18	54.01	--	--	3640.57	61.12		
	2/7/19	54.10	--	--	3640.48	61.16		
	5/2/19	54.30	--	--	3640.28	64.76		
	8/1/19	54.40	--	--	3640.18	61.16		
	11/18/19	54.67	--	--	3639.91	62.40		
	3/26/20	54.82	--	--	3639.76	64.65		
	6/22/20	55.03	--	--	3639.55	64.85		
	8/20/20	55.03	--	--	3639.55	---		
	3/16/21	55.22	---	---	3639.36	---		
	5/18/21	55.30	---	---	3639.28	---		
	7/19/21	55.42	---	---	3639.16	---		
	11/4/21	55.50	---	---	3639.08	---		
	3/8/22	55.22	---	---	3639.36	61.23		
	6/8/22	55.72	---	---	3638.86	---		
	8/15/22	55.72	---	---	3638.86	64.82		
	11/18/22	55.89	---	---	3638.69	61.25		
	3/9/23	56.03	---	---	3638.55	---		
	6/12/23	56.08	---	---	3638.50	61.23		
	8/8/23	56.10	---	---	3638.48	63.72		
	11/14/23	56.31	---	---	3638.27	61.28		
	3/12/24	56.35	---	---	3638.23	61.25		
	6/10/24	56.48	---	---	3638.10	61.21		
	9/18/24	56.65	---	---	3637.93	61.23		
11/11/24	56.71	---	---	3637.87	64.69			
3/18/25	56.79	---	---	3637.79	---			
6/11/25	56.93	---	---	3637.65	---			
8/27/25	56.95	---	---	3637.63	---			
11/14/25	57.06	---	---	3637.52	61.21			

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Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ¹)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ⁴)
MW-9R* <i>(not surveyed)</i>	6/9/15	46.99	---	---	---	62.12	2.00	29.5 - 59.5
	9/16/15	46.93	---	---	---	62.12		
	12/9/15	46.72	---	---	---	---		
	3/7/16	46.62	---	---	---	62.08		
	6/21/16	46.58	---	---	---	62.13		
	8/31/16	46.77	---	---	---	62.18		
	12/8/16	46.48	---	---	---	62.02		
	3/9/17	46.40	---	---	---	---		
	6/13/17	46.43	---	---	---	62.13		
	9/5/17	46.50	---	---	---	---		
	11/28/17	46.23	---	---	---	---		
	3/22/18	46.36	---	---	---	---		
	6/15/18	46.39	---	---	---	62.14		
	9/6/18	46.61	---	---	---	62.07		
	12/13/18	46.51	---	---	---	62.41		
	2/7/19	46.59	---	---	---	62.05		
	5/2/19	46.77	---	---	---	62.16		
	8/1/19	46.89	---	---	---	62.08		
	11/18/19	47.16	---	---	---	63.91		
	3/26/20	47.32	---	---	---	62.30		
	6/22/20	47.48	---	---	---	62.33		
	8/20/20	47.54	---	---	---	---		
	3/16/21	47.78	---	---	---	---		
	5/18/21	47.85	---	---	---	62.82		
	7/19/21	47.95	---	---	---	---		
	11/4/21	48.00	---	---	---	---		
	3/8/22	48.03	---	---	---	62.70		
	6/8/22	48.18	---	---	---	---		
	8/15/22	48.21	---	---	---	62.23		
	11/18/22	48.40	---	---	---	62.18		
	3/9/23	48.48	---	---	---	---		
	6/12/23	45.53	---	---	---	62.22		
	8/8/23	48.58	---	---	---	62.21		
11/14/23	48.75	---	---	---	62.28			
3/12/24	48.82	---	---	---	62.20			
6/10/24	48.90	---	---	---	62.21			
9/18/24	49.08	---	---	---	62.20			
11/11/24	49.12	---	---	---	62.71			
3/18/25	49.20	---	---	---	---			
6/11/25	49.31	---	---	---	---			
8/27/25	49.31	---	---	---	---			
11/14/25	49.40	---	---	---	62.21			

Appendix D
 Cumulative Groundwater Gauging Data
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Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ²)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ²)			
RW-1 3699.92	11/3/99	62.17	---	---	3637.75	71.60	4.00	55 - 75			
	2/16/01	62.37	62.33	0.04	3637.59	---					
	6/11/02	62.26	61.86	0.40	3638.01	---					
	11/26/02	62.60	62.07	0.53	3637.79	---					
	6/5/03	63.00	62.84	0.16	3637.06	---					
	12/3/03	63.26	62.61	0.65	3637.23	---					
	7/1/04	63.10	62.33	0.77	3637.50	---					
	12/20/04	61.80	60.96	0.84	3638.86	---					
	3/1/05	----- start-up groundwater extraction system -----									
	1/25/06	61.44	58.67	2.77	3640.92	---					
	5/1/06	61.56	58.38	3.18	3641.16	---					
	6/26/06	61.59	58.43	3.16	3641.11	---					
	12/18/06	58.78	58.55	0.23	3641.34	---					
	3/16/07	58.74	58.30	0.44	3641.57	---					
	6/26/07	58.52	58.37	0.15	3641.53	---					
	9/27/07	59.40	58.72	0.68	3641.13	---					
	12/13/07	60.90	58.44	2.46	3641.23	---					
	3/6/08	59.24	58.76	0.48	3641.11	---					
	6/4/08	59.37	58.59	0.78	3641.25	---					
	9/4/08	58.82	58.51	0.31	3641.38	---					
	11/13/08	60.59	58.10	2.49	3641.56	---					
	3/5/09	60.82	58.50	2.32	3641.18	---					
	6/15/09	60.65	58.28	2.37	3641.40	---					
	9/9/09	60.77	58.50	2.27	3641.19	---					
	11/19/09	58.96	58.63	0.33	3641.26	---					
	3/23/10	61.51	58.80	2.71	3640.84	---					
	6/29/10	62.18	59.00	3.18	3640.59	---					
	9/22/10	60.80	58.40	2.40	3641.27	---					
	11/8/10	61.16	58.39	2.77	3641.24	---					
	6/2/11	61.23	58.36	2.87	3641.26	---					
	9/27/11	62.44	59.43	3.01	3640.18	---					
	12/2/11	62.24	58.95	3.29	3640.63	---					
	3/7/12	61.10	58.80	2.30	3640.88	---					
	6/26/12	60.80	58.80	2.00	3640.91	---					
	9/20/12	62.09	58.84	3.25	3640.75	---					
	11/26/12	62.24	58.85	3.39	3640.72	---					
	3/14/13	61.96	58.72	3.24	3640.87	---					
	6/14/13	62.51	59.12	3.39	3640.45	---					
	9/13/13	62.91	60.05	2.86	3639.58	---					
	11/20/13	----- not gauged -----									
3/20/14	61.36	58.61	2.75	3641.03	---						
7/31/14	60.87	58.69	2.18	3641.01	---						
9/22/14	----- not gauged -----										
12/12/14	59.98	58.31	1.67	3641.44	---						
3/31/15	58.76	58.07	0.69	3641.78	70.99						
6/9/15	60.44	58.00	2.44	3641.67	---						
9/16/15	59.92	57.80	2.12	3641.90	---						
12/9/15	----- not gauged -----										

Appendix D
 Cumulative Groundwater Gauging Data
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Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ³)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ⁴)	
RW-1 Cont.	3/7/16	57.76	57.75	0.01	3642.17	---			
	6/21/16	57.64	57.62	0.02	3642.30	---			
	8/31/16	57.41	57.34	0.07	3642.57	---			
	12/8/16	57.61	---	trace	3642.31	---			
	3/1/17	----- skimmer pump removed, absorbant sock installed -----							
	3/9/17	57.45	---	trace	3642.47	---			
	6/13/17	57.36	57.34	0.02	3642.58	---			
	9/5/17	----- not gauged -----							
	11/28/17	57.31	---	---	3642.61	---			
	1/9/18	57.42	---	---	3642.50	---			
	1/26/18	57.50	---	trace	3639.35	---			
	2/5/18	57.21	---	---	3642.71	---			
	2/20/18	57.35	---	trace	3639.50	---			
	3/8/18	57.25	---	trace	3639.60	---			
	3/22/18	57.52	---	trace	3642.40	---			
	4/2/18	57.33	---	---	3642.59	---			
	4/16/18	57.50	---	---	3642.42	---			
	5/2/18	57.38	---	---	3642.54	---			
	5/14/18	57.30	---	---	3642.62	---			
	6/1/18	57.32	---	trace	3642.60	---			
	6/15/18	57.39	57.36	0.03	3642.53	---			
	6/27/18	57.47	57.93	---	3642.45	---			
	7/9/18	57.49	---	---	3642.43	---			
	7/25/18	57.52	---	---	3642.40	---			
	8/6/18	57.56	---	---	3642.36	---			
	8/21/18	57.50	---	trace	3642.42	---			
	9/6/18	57.55	---	trace	3642.37	---			
	9/21/18	57.87	---	---	3642.05	---			
	10/1/18	57.70	---	---	3642.22	---			
	11/28/18	57.35	---	trace	3631.26	---			
	12/13/18	57.7	---	---	3642.22	71.10			
	1/9/19	58.65	58.64	trace	3641.27	---			
	2/7/19	57.88	---	trace	3642.04	---			
	2/21/19	57.69	---	---	3642.23	---			
	3/7/19	57.32	57.71	---	3642.60	---			
	3/18/19	57.74	---	---	3642.18	---			
	4/2/19	57.72	---	---	3642.20	---			
	4/18/19	58.09	57.99	---	3641.83	---			
	5/2/19	58.05	58	0.05	3641.87	---			
	6/9/19	60.4	58	2.40	3639.52	---			
6/24/19	60.4	57.7	2.70	3639.52	---				
7/23/19	60.59	57.79	2.80	3639.33	---				
8/2/19	60.63	57.74	2.89	3639.29	---				
8/26/19	60.63	57.74	2.89	3639.29	---				
9/6/19	60.82	57.79	3.03	3639.10	---				
9/18/19	60.64	57.89	2.75	3639.28	---				
9/30/19	60.55	57.89	trace	3639.37	---				
11/19/19	63.21	57.95	5.26	3636.71	---				

Appendix D
 Cumulative Groundwater Gauging Data
 Chevron Environmental Management Company
 Former New Mexico "F" State Tank Battery
 Lea County, New Mexico



Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ²)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ²)
RW-1 Cont.	1/31/20	62.10	58.10	4.00	3641.41	---		
	2/13/20	62.12	58.08	4.04	3641.42	---		
	2/26/20	61.62	58.15	3.47	3641.41	---		
	3/12/20	62.47	57.93	4.54	3641.52	---		
	3/26/20	62.13	57.90	4.23	3641.58	---		
	4/10/20	61.90	57.99	3.91	3641.53	---		
	4/24/20	61.84	58.02	3.82	3641.51	---		
	5/13/20	62.41	57.97	4.44	3641.49	---		
	6/23/20	62.10	58.05	4.05	3641.45	---		
	8/20/20	62.25	58.11	4.14	3641.38	---		
	9/24/20	62.41	58.21	4.20	3641.28	---		
	11/12/20	62.57	58.26	4.31	3641.22	---		
	3/16/21	62.56	58.19	4.37	3641.28	---		
	5/18/21	61.95	58.39	3.56	3641.16	---		
	7/19/21	62.89	58.53	4.36	3640.94	---		
	9/13/21	62.93	58.59	4.34	3640.88	---		
	11/4/21	62.79	58.56	4.23	3640.92	---		
	3/8/22	62.78	58.56	4.22	3640.93	---		
	6/8/22	63.25	58.26	4.99	3641.15	---		
	8/15/22	62.57	58.85	3.72	3640.69	---		
	11/18/22	62.40	59.01	3.39	3640.56	---		
	2/9/23	62.74	59.13	3.61	3640.42	---		
	2/21/23	59.80	59.27	0.53	3640.60	---		
	3/9/23	62.42	60.13	2.29	3639.55	---		
	4/4/23	60.49	59.37	1.12	3640.43	---		
	4/21/23	62.33	59.56	2.77	3640.07	---		
	5/2/23	60.51	59.30	1.21	3640.50	---		
	5/30/23	61.09	59.35	1.74	3640.39	---		
	6/12/23	61.21	59.40	1.81	3640.33	---		
	6/27/23	62.65	59.41	3.24	3640.18	---		
	7/13/23	62.90	59.20	3.70	3640.34	---		
	7/25/23	62.82	59.19	3.63	3640.36	---		
	8/8/23	62.85	59.12	3.73	3640.42	---		
	8/22/23	64.24	60.51	3.73	3639.03	---		
	10/3/23	62.98	59.29	3.69	3640.25	---		
	10/18/23	63.23	59.28	3.95	3640.23	---		
	10/31/23	63.02	59.45	3.57	3640.10	---		
	11/14/23	62.21	59.26	2.95	3640.36	---		
	11/28/23	63.32	59.37	3.95	3640.14	---		
	12/14/23	63.29	59.23	4.06	3640.27	---		
12/27/23	63.44	59.40	4.04	3640.10	---			
1/9/24	64.33	60.33	4.00	3639.18	---			
1/22/24	63.32	54.36	8.96	3644.64	---			
2/13/24	63.18	60.55	2.63	3639.10	---			
2/29/24	62.95	59.70	3.25	3639.89	---			

Appendix D
 Cumulative Groundwater Gauging Data
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Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ¹)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ¹)
RW-1 Cont.	3/12/24	62.98	59.83	3.15	3639.77	---		
	4/15/24	63.45	59.40	4.05	3640.10	---		
	5/14/24	63.48	59.50	3.98	3640.01	---		
	5/28/24	63.34	59.58	3.76	3639.95	---		
	6/10/24	63.70	59.53	4.17	3639.96	---		
	6/25/24	63.22	59.58	6.25	3642.31	---		
	7/10/24	62.22	59.79	2.43	3639.88	---		
	8/6/24	60.66	59.94	0.72	3639.91	---		
	8/19/24	62.28	59.78	2.50	3639.88	---		
	9/4/24	62.72	59.89	2.83	3639.74	---		
	9/18/24	62.90	59.80	3.10	3639.80	---		
	10/1/24	63.19	59.76	3.43	3639.81	---		
	10/17/24	62.77	59.79	2.98	3639.82	---		
	10/31/24	63.35	59.90	3.45	3639.66	---		
	11/11/24	62.17	60.02	2.15	3639.68	---		
	11/25/24	62.20	60.24	1.96	3639.48	---		
	12/9/24	62.26	59.91	2.35	3639.77	---		
	12/23/24	63.02	59.86	3.16	3639.73	---		
	1/7/25	62.48	59.95	2.53	3639.71	---		
	1/22/25	63.10	58.72	4.38	3640.75	---		
	2/5/25	63.92	59.80	4.12	3639.70	---		
	2/24/25	63.70	59.84	3.86	3639.68	---		
	3/11/25	63.05	59.87	3.18	3639.72	---		
	3/18/25	62.81	59.47	3.34	3640.11	---		
	4/2/25	63.07	59.90	3.17	3639.69	---		
	4/24/25	63.08	59.78	3.30	3639.80	---		
	5/6/25	63.10	59.84	3.26	3639.74	---		
	6/11/25	64.21	59.92	4.29	3639.56	---		
	6/25/25	63.96	59.79	4.17	3639.70	---		
	7/10/25	62.90	58.28	4.62	3641.16	---		
	7/24/25	62.35	58.24	4.11	3641.26	---		
	8/5/25	62.15	57.87	4.28	3641.61	---		
	8/27/25	63.75	59.90	3.85	3639.62	---		
9/10/25	63.83	59.99	3.84	3639.53	---			
9/24/25	62.62	60.25	2.37	3639.43	---			
10/6/25	62.97	60.16	2.81	3639.47	---			
11/3/25	60.63	60.20	0.43	3639.68	---			
11/14/25	60.64	60.43	0.21	3639.47	---			
12/10/25	60.67	60.31	0.36	3639.57	---			
12/23/25	61.13	60.70	0.43	3639.18	---			
RW-2 3692.12	10/14/99	53.28	---	---	3638.84	67.55	4.00	47 - 67
	11/3/99	53.95	---	---	3638.17	---		
	2/16/01	54.01	---	---	3638.11	---		
	6/11/02	54.01	53.98	0.03	3638.14	---		
	11/26/02	54.28	54.07	0.21	3638.02	---		
	6/5/03	53.24	53.23	0.01	3638.89	---		
	12/3/03	54.51	54.38	0.13	3637.72	---		
	7/1/04	54.51	54.12	0.39	3637.95	---		
	12/20/04	53.69	53.52	0.17	3638.58	---		
	3/1/05				----- start-up groundwater extraction system -----			
	1/25/06	51.55	51.14	0.41	3640.93	---		
	5/1/06	51.34	50.91	0.43	3641.16	---		
	6/26/06	51.02	50.94	0.08	3641.17	---		
	11/28/06				----- absorbant sock installed -----			
	12/18/06	51.15	50.75	0.40	3641.32	---		
	3/16/07	50.69	---	---	3641.43	---		
	6/26/07	50.63	---	---	3641.49	---		
	9/27/07	51.00	---	---	3641.12	---		
	12/13/07	50.92	---	---	3641.20	---		
	3/6/08	50.90	---	---	3641.22	---		
	6/4/08	50.65	---	---	3641.47	---		
9/4/08	50.73	---	---	3641.39	---			
11/13/08	50.67	---	---	3641.45	---			
3/5/09	51.03	---	---	3641.09	---			
6/15/09	50.80	---	---	3641.32	---			

Appendix D
 Cumulative Groundwater Gauging Data
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 Lea County, New Mexico



Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ²)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ²)
RW-2 Cont.	9/9/09	51.02	50.97	0.05	3641.14	---		
	11/19/09	50.99	50.95	0.04	3641.17	---		
	3/23/10	51.16	---	---	3640.96	---		
	6/29/10	51.70	51.56	0.14	3640.55	---		
	9/22/10	51.65	---	---	3640.47	---		
	11/8/10	50.95	50.94	0.01	3641.18	---		
	11/29/10	50.89	---	---	3641.23	---		
	2/4/11	50.82	---	---	3641.30	---		
	6/2/11	50.91	---	---	3641.21	---		
	9/27/11	51.97	---	---	3640.15	---		
	12/2/11	51.85	---	---	3640.27	---		
	3/7/12	51.33	---	---	3640.79	---		
	6/26/12	51.35	51.27	0.08	3640.84	---		
	9/20/12	51.54	51.40	0.14	3640.71	---		
	11/26/12	55.26	---	---	3636.86	---		
	3/14/13	51.50	---	---	3640.62	---		
	6/14/13	52.20	51.73	0.47	3640.34	---		
	9/13/13	51.89	51.74	0.15	3640.36	---		
	11/20/13	51.29	51.26	0.03	3640.86	---		
	3/20/14	51.12	---	---	3641.00	---		
	7/31/14	51.14	---	---	3640.98	---		
	9/22/14	51.49	---	---	3640.63	---		
	12/12/14	50.98	---	---	3641.14	---		
	3/31/15	50.39	---	---	3641.73	---		
	6/9/15	50.44	---	---	3641.68	67.13		
	9/16/15	50.28	---	---	3641.84	---		
	12/9/16	49.92	---	---	3642.20	---		
	3/7/16	49.83	---	---	3642.29	67.18		
	6/21/16	49.84	---	---	3642.28	67.25		
	8/31/16	50.11	---	---	3642.01	67.22		
	12/8/16	49.83	---	---	3642.29	---		
	3/9/17	49.65	---	---	3642.47	---		
	6/13/17	49.60	---	---	3642.52	67.40		
	9/5/17	49.70	---	---	3642.42	---		
	11/28/17	49.57	---	---	3642.55	---		
	1/9/18	49.55	---	---	3642.57	---		
	1/26/18	49.64	---	---	3642.48	---		
	2/5/18	49.46	---	trace	3642.66	---		
	2/20/18	49.52	---	---	3642.60	---		
	3/8/18	49.50	---	---	3642.62	---		
3/22/18	49.58	---	---	3642.54	---			
4/2/18	49.52	---	---	3642.60	---			
4/16/18	49.60	---	---	3642.52	---			

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 Cumulative Groundwater Gauging Data
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 Former New Mexico "F" State Tank Battery
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Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ²)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ²)
RW-2 Cont.	5/2/18	49.61	---	trace	3642.51	---		
	5/14/18	49.55	---	trace	3642.57	---		
	6/1/18	49.56	---	---	3642.56	---		
	6/15/18	49.62	---	---	3642.50	67.38		
	6/27/18	49.68	---	---	3642.44	---		
	7/9/18	49.73	---	---	3642.39	---		
	7/25/18	49.74	---	---	3642.38	---		
	8/6/18	49.75	---	---	3642.37	---		
	8/21/18	49.76	---	---	3642.36	---		
	9/6/18	49.80	---	---	3642.32	67.20		
	9/21/18	49.88	---	---	3642.24	---		
	10/1/18	49.72	---	---	3642.40	---		
	11/28/18	49.7	---	---	3642.42	---		
	12/13/18	49.85	---	---	3642.27	67.71		
	2/7/19	50	---	---	3642.12	67.27		
	5/2/19	50.24	---	---	3641.88	---		
	8/2/19	50.32	50.31	0.01	3641.8	---		
	11/19/19	50.55	---	---	3641.57	69.80		
	1/31/20	50.72	---	---	3641.40	67.41		
	2/13/20	50.70	---	---	3641.42	---		
	2/26/20	50.69	---	---	3641.43	---		
	3/12/20	50.60	---	---	3641.52	---		
	3/26/20	50.60	---	---	3641.52	67.50		
	4/10/20	50.66	---	---	3641.46	---		
	4/24/20	50.70	---	---	3641.42	---		
	5/13/20	50.63	---	---	3641.49	---		
	6/22/20	50.80	---	---	3641.32	70.11		
	8/20/20	50.81	---	---	3641.31	---		
	9/24/20	50.92	---	---	3641.20	---		
	11/9/20	50.96	---	---	3641.16	---		
	3/16/21	51.02	50.90	0.12	3641.21	---		
	5/18/21	51.46	51.05	0.41	3641.03	---		
	7/19/21	51.68	51.20	0.48	3640.87	---		
	9/13/21	51.8	51.22	0.58	3640.84	---		
	11/4/21	51.3	51.29	0.01	3640.83	---		
	3/8/22	51.55	51.25	0.30	3640.84	---		
	6/8/22	51.98	51.40	0.58	3640.66	---		
	8/15/22	51.52	51.50	0.02	3640.62	---		
	11/18/22	51.69	51.63	0.06	3640.48	---		
	2/9/23	51.62	51.59	0.03	3640.53	---		
	2/21/23	51.62	51.61	0.01	3640.51	---		
	3/9/23	51.9	51.79	0.11	3640.32	---		
4/4/23	51.73	---	---	3640.39	---			

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Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ²)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ²)
RW-2 Cont.	4/21/23	51.99	---	---	3640.13	---		
	5/2/23	51.79	---	---	3640.33	---		
	5/30/23	51.83	---	---	3640.29	---		
	6/12/23	51.91	51.89	0.02	3640.23	---		
	6/27/23	51.87	51.86	0.01	3640.26	---		
	7/13/23	51.91	51.89	0.02	3640.23	---		
	7/25/23	51.94	---	---	3640.18	---		
	8/8/23	51.71	---	---	3640.41	---		
	8/22/23	51.95	51.95	0.00	3640.17	---		
	10/3/23	52.00	---	---	3640.12	---		
	10/18/23	51.99	sheen	---	3640.13	---		
	10/31/23	52.11	---	---	3640.01	---		
	11/14/23	52.03	---	---	3640.09	---		
	11/28/23	52.18	52.08	0.02	3639.96	---		
	12/14/23	52.32	51.98	0.02	3639.82	---		
	12/27/23	52.13	52.14	0.02	3640.01	---		
	1/9/24	52.22	52.21	0.01	3639.91	---		
	1/22/24	52.11	52.10	0.01	3640.02	---		
	2/13/24	52.18	---	---	3639.94	---		
	2/29/24	52.09	---	---	3640.03	---		
	3/12/24	52.11	---	---	3640.01	---		
	3/28/24	52.21	52.20	0.01	3639.92	---		
	4/15/24	52.16	---	---	3639.94	---		
	5/12/24	52.22	---	---	3639.90	---		
	5/28/24	52.28	---	---	3639.84	---		
	6/10/24	52.31	---	---	3639.81	---		
	6/25/24	52.53	---	---	3639.59	---		
	7/10/24	52.34	---	---	3639.78	---		
	8/6/24	52.31	52.30	0.01	3639.82	---		
	8/19/24	52.43	---	---	3639.69	---		
	9/4/24	52.42	52.41	0.01	3639.71	---		
	9/18/24	---	---	---	---	---		
	10/1/24	52.44	---	---	3639.68	---		
	10/17/24	52.41	---	---	3639.71	---		
	10/31/24	52.23	52.22	0.01	3639.90	---		
	11/11/24	52.47	---	---	3639.65	---		
	11/25/24	52.68	52.67	0.01	3639.45	---		
	12/9/24	52.57	---	---	3639.55	---		
	12/23/24	52.59	---	---	3639.53	---		
	1/7/25	52.68	---	---	3639.44	---		
1/22/25	52.40	---	---	3639.72	---			
2/5/25	52.68	---	---	3639.44	---			
2/24/25	52.67	---	---	3639.45	---			
3/11/25	52.69	---	---	3639.43	---			
3/18/25	52.47	---	---	3639.65	---			
4/2/25	52.64	---	---	3639.48	---			
4/24/25	52.65	---	---	3639.47	---			
5/6/25	52.67	---	---	3639.45	---			
6/11/25	52.71	---	---	3639.41	---			
6/25/25	53.23	---	---	3638.89	---			
7/10/25	53.48	---	---	3638.64	---			
7/24/25	53.51	---	---	3638.61	---			
8/5/25	53.08	---	---	3639.04	---			
8/27/25	52.71	---	---	3639.41	---			
9/10/25	52.84	---	---	3639.28	---			
9/24/25	52.82	---	---	3639.30	---			
10/6/25	52.91	---	---	3639.21	---			
11/3/25	52.81	---	---	3639.31	---			
11/14/25	52.78	---	---	3639.34	---			
12/10/25	52.88	---	---	3639.24	---			
12/23/25	52.80	---	---	3639.32	---			

Appendix D
 Cumulative Groundwater Gauging Data
 Chevron Environmental Management Company
 Former New Mexico "F" State Tank Battery
 Lea County, New Mexico



Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ¹)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ⁴)			
RW-3 3690.86	10/14/99	45.82	---	---	3645.04	68.65	4.00	47 - 67			
	11/3/99	52.82	---	---	3638.04	---					
	2/16/01	52.88	---	---	3637.98	---					
	6/11/02	52.91	---	---	3637.95	---					
	11/26/02	53.22	53.15	0.07	3637.70	---					
	6/5/03	54.56	54.40	0.16	3636.44	---					
	12/3/03	53.23	---	---	3637.63	---					
	7/1/04	53.19	52.98	0.21	3637.85	---					
	12/20/04	52.50	52.09	0.41	3638.72	---					
	3/1/05	----- start-up groundwater extraction system -----									
	1/25/06	50.71	---	---	3640.15	---					
	5/1/06	50.49	---	---	3640.37	---					
	6/26/06	50.50	---	---	3640.36	---					
	11/28/06	----- absorbant sock installed -----									
	12/18/06	50.31	---	---	3640.55	---					
	3/16/07	50.22	---	---	3640.64	---					
	6/26/07	50.15	---	---	3640.71	---					
	9/27/07	50.49	---	---	3640.37	---					
	12/13/07	52.38	---	---	3638.48	---					
	3/6/08	50.42	---	---	3640.44	---					
	6/4/08	50.32	---	---	3640.54	---					
	9/4/08	50.90	---	---	3639.96	---					
	11/13/08	50.15	---	---	3640.71	---					
	3/5/09	50.49	---	---	3640.37	---					
	6/15/09	50.35	---	---	3640.51	---					
	9/9/09	50.52	---	---	3640.34	---					
	11/19/09	50.50	---	---	3640.36	---					
	3/23/10	51.73	---	---	3639.13	---					
	6/29/10	51.10	---	---	3639.76	---					
	9/22/10	51.22	---	---	3639.64	---					
	11/8/10	50.65	50.64	0.01	3640.22	---					
	2/4/11	50.39	---	---	3640.47	---					
	6/2/11	54.01	---	---	3636.85	---					
	9/27/11	51.55	---	---	3639.31	---					
	12/2/11	51.39	---	---	3639.47	---					
	3/7/12	51.00	50.85	0.15	3639.99	---					
	6/26/12	50.90	50.84	0.06	3640.01	---					
	9/20/12	----- not gauged (obstruction in well) -----									
	11/26/12	----- not gauged (obstruction in well) -----									
	3/14/13	51.02	---	---	3639.84	51.10					
	6/14/13	51.41	51.25	0.16	3639.59	---					
	9/13/13	51.70	51.02	0.68	3639.77	---					
11/20/13	50.93	50.86	0.07	3641.25	---						
3/20/14	50.68	---	---	3640.18	---						
7/31/14	50.69	---	---	3640.17	---						
9/22/14	50.97	---	---	3639.89	---						
12/12/14	50.41	---	---	3640.45	---						
3/31/15	49.93	---	---	3640.93	---						

Appendix D
 Cumulative Groundwater Gauging Data
 Chevron Environmental Management Company
 Former New Mexico "F" State Tank Battery
 Lea County, New Mexico



Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ²)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ²)
RW-3 Cont.	6/9/15	49.95	---	---	3640.91	68.09		
	9/16/15	49.82	---	---	3641.04	---		
	12/9/15	49.77	---	---	3641.09	67.27		
	3/7/16	49.43	---	---	3641.43	67.93		
	6/21/16	49.44	---	---	3641.42	68.02		
	8/31/16	49.69	---	---	3641.17	68.05		
	12/8/16	49.39	---	---	3641.47	---		
	3/9/17	49.23	---	---	3641.63	---		
	6/13/17	49.18	---	---	3641.68	68.10		
	9/5/17	49.31	---	---	3641.55	---		
	11/28/17	49.12	---	---	3641.74	---		
	1/9/18	49.10	---	---	3641.76	---		
	1/26/18	49.20	---	---	3641.66	---		
	2/5/18	49.03	---	---	3641.83	---		
	2/20/18	49.17	---	---	3641.69	---		
	3/8/18	49.08	---	---	3641.78	---		
	3/22/18	49.20	---	---	3641.66	---		
	4/2/18	49.18	---	---	3641.68	---		
	4/16/18	50.20	---	---	3640.66	---		
	5/2/18	50.20	---	---	3640.66	---		
	5/14/18	49.15	---	---	3641.71	---		
	6/1/18	49.20	---	---	3641.66	---		
	6/15/18	49.23	---	---	3641.63	68.10		
	6/27/18	49.27	---	---	3641.59	---		
	7/9/18	49.28	---	---	3641.58	---		
	7/25/18	49.30	---	---	3641.56	---		
	8/6/18	49.33	---	---	3641.53	---		
	8/21/18	49.35	---	---	3641.51	---		
	9/6/18	49.40	---	---	3641.46	68.01		
	9/21/18	49.42	---	---	3641.44	---		
	10/1/18	49.35	---	---	3641.51	---		
	11/28/18	49.29	---	---	3641.57	---		
	12/13/18	49.41	---	---	3641.45	68.23		
	2/7/19	49.56	---	---	3641.30	67.95		
	5/2/19	49.81	---	---	3641.05	---		
	8/2/19	49.87	---	---	3640.99	---		
11/19/19	50.07	---	---	3640.79	70.44			
1/31/20	50.31	---	---	3640.55	68.05			
2/13/20	50.26	---	---	3640.60	---			
2/26/20	50.26	---	---	3640.60	---			
3/12/20	50.20	---	---	3640.66	---			
3/26/20	50.13	---	---	3640.73	68.03			

Appendix D
 Cumulative Groundwater Gauging Data
 Chevron Environmental Management Company
 Former New Mexico "F" State Tank Battery
 Lea County, New Mexico



Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ¹)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ⁴)
RW-3 Cont.	4/10/20	50.26	---	---	3640.60	---		
	4/24/20	50.28	---	---	3640.58	---		
	5/13/20	50.23	---	---	3640.63	---		
	6/22/20	50.55	---	---	3640.31	67.95		
	8/20/20	50.41	---	---	3640.45	---		
	9/24/20	50.52	---	---	3640.34	---		
	11/9/20	50.63	---	---	3640.23	---		
	3/16/21	50.79	50.51	0.28	3640.32	---		
	5/18/21	50.87	50.67	0.20	3640.17	---		
	7/19/21	51.15	50.79	0.36	3640.03	---		
	9/13/21	51.35	50.81	0.54	3639.99	---		
	11/4/21	50.87	50.86	0.01	3640.00	---		
	3/8/22	51.00	50.85	0.15	3639.99	---		
	6/8/22	51.19	51.14	0.05	3639.71	---		
	8/15/22	51.68	51.07	0.61	3639.73	---		
	11/18/22	51.21	51.20	0.01	3639.66	---		
	2/9/23	51.34	---	---	3639.52	---		
	2/21/23	51.25	51.24	0.01	3639.62	---		
	3/9/23	51.58	51.57	0.01	3639.29	---		
	4/4/23	51.43	---	---	3639.43	---		
	4/21/23	51.52	---	---	3639.34	---		
	5/2/23	51.32	---	---	3639.54	---		
	5/30/23	51.39	---	---	3639.47	---		
	6/12/23	51.53	51.51	0.02	3639.35	---		
	6/27/23	51.47	51.46	0.01	3639.40	---		
	7/13/23	51.48	---	---	3639.38	---		
	7/25/23	51.52	---	---	3639.34	---		
	8/8/23	52.35	---	---	3638.51	---		
	8/22/23	51.52	51.52	0.00	3639.34	---		
	10/3/23	51.59	51.59	0.00	3639.27	---		
	10/18/23	51.55	sheen	---	3639.31	---		
	10/31/23	51.67	---	---	3639.19	---		
	11/14/23	50.50	---	---	3640.36	---		
	11/28/23	51.81	51.71	0.01	3639.06	---		
	12/14/23	51.62	---	---	3639.24	---		
	12/27/23	51.67	51.66	0.01	3639.20	---		
	1/9/24	51.73	51.72	0.01	3639.14	---		
	1/22/24	52.62	51.61	1.01	3639.15	---		
	2/13/24	51.72	---	---	3639.14	---		
	2/29/24	51.70	---	---	3639.16	---		
3/12/24	51.74	---	---	3639.12	---			
3/28/24	57.76	57.75	0.01	3633.11	---			
4/15/24	51.78	---	---	3639.08	---			

Appendix D
 Cumulative Groundwater Gauging Data
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 Former New Mexico "F" State Tank Battery
 Lea County, New Mexico



Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ¹)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ¹)	
RW-3 Cont.	5/14/24	51.78	---	---	3639.08	---			
	5/28/24	51.90	---	---	3638.96	---			
	6/10/24	51.90	---	---	3638.96	---			
	6/25/24	51.88	---	---	3638.98	---			
	7/10/24	51.92	---	---	3638.94	---			
	8/6/24	51.90	51.89	0.01	3638.97	---			
	8/19/24	52.03	---	---	3638.83	---			
	9/4/24	52.04	52.03	0.01	3638.83	---			
	9/18/24	51.23	---	---	3639.63	---			
	10/1/24	52.00	---	---	3638.86	---			
	10/17/24	51.99	---	---	3638.87	---			
	10/31/24	52.06	52.05	0.01	3638.81	---			
	11/11/24	52.03	---	---	3638.83	---			
	11/25/24	52.17	52.16	0.01	3638.70	---			
	12/9/24	52.55	---	---	3638.31	---			
	12/23/24	52.11	---	---	3638.75	---			
	1/7/25	52.22	---	---	3638.64	---			
	1/22/25	52.23	---	---	3638.63	---			
	2/5/25	52.19	---	---	3638.67	---			
	2/24/25	52.18	---	---	3638.68	---			
	3/11/25	52.20	---	---	3638.66	---			
	3/18/25	51.84	---	---	3639.02	---			
	4/2/25	52.18	---	---	3638.68	---			
	4/24/25	52.21	---	---	3638.65	---			
	5/6/25	52.19	---	---	3638.67	---			
	6/11/25	52.29	---	---	3638.57	---			
	6/25/25	52.46	---	---	3638.40	---			
	7/10/25	52.34	---	---	3638.52	---			
	7/24/25	52.59	---	---	3638.27	---			
	8/5/25	51.92	---	---	3638.94	---			
	8/27/25	52.34	---	---	3638.52	---			
	9/10/25	52.39	---	---	3638.47	---			
	9/24/25	52.34	---	---	3638.52	---			
	10/6/25	52.44	---	---	3638.42	---			
	11/3/25	52.43	---	---	3638.43	---			
	11/14/25	52.42	---	---	3638.44	---			
12/10/25	52.43	---	---	3638.43	---				
RW-4 3699.94	6/2/11	60.44	59.40	1.04	3640.43	75.00	4.00	35 - 75	
	6/21/11	63.15	59.35	3.80	3640.20	---			
	9/27/11	65.66	59.95	5.71	3639.40	---			
	12/2/11	63.54	59.82	3.72	3639.74	---			
	3/7/12	60.21	59.90	0.31	3640.01	---			
	6/26/12	63.06	59.55	3.51	3640.03	---			
	9/20/12	63.10	56.08	7.02	3643.14	---			
	11/26/12	63.67	59.70	3.97	3639.83	---			
	3/14/13	63.68	59.98	3.70	3639.58	---			
	6/14/13	not gauged							
	9/13/13	63.14	59.02	4.12	3640.50	---			
	11/20/13	62.98	59.56	3.42	3640.03	---			
	3/20/14	60.44	59.70	0.74	3640.16	---			
	7/31/14	60.17	59.78	0.39	3640.12	---			
	9/22/14	not gauged							
	12/12/14	60.91	59.03	1.88	3640.72	---			
	3/31/15	59.15	58.98	0.17	3640.94	77.22			
	6/9/15	61.50	58.89	2.61	3640.78	---			
	9/16/15	60.40	58.75	1.65	3641.02	---			
	12/9/15	not gauged							
3/7/16	58.55	58.47	0.08	3641.46	---				
6/21/16	58.57	58.52	0.05	3641.41	---				

Appendix D
 Cumulative Groundwater Gauging Data
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Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ²)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ⁴)
RW-4 Cont.	8/31/16	58.30	58.24	0.06	3641.69	---		
	12/8/16	58.70	58.47	0.23	3641.45	---		
	3/1/17			----- skimmer pump removed, absorbant sock installed -----				
	3/9/17	58.38	58.37	0.01	3641.57	---		
	6/13/17	58.54	58.38	0.16	3641.54	---		
	9/5/17			----- not gauged -----				
	11/28/17	59.09	58.11	0.98	3641.73	---		
	1/9/18	59.17	58.15	1.02	3641.68	---		
	1/26/18	59.20	58.19	1.01	3641.65	---		
	2/5/18	58.53	58.05	0.48	3641.84	---		
	2/20/18	58.98	58.11	0.87	3641.74	---		
	3/8/18	58.69	58.09	0.60	3641.79	---		
	3/22/18	58.91	58.31	0.60	3641.57	---		
	4/2/18	58.81	58.10	0.71	3641.77	---		
	4/16/18	58.91	58.23	0.68	3641.64	---		
	5/2/18	59.18	58.18	1.00	3641.66	---		
	5/14/18	59.01	58.21	0.80	3641.65	---		
	6/1/18	59.20	58.20	1.00	3641.64	---		
	6/15/18	59.08	58.18	0.90	3641.67	---		
	6/27/18	59.59	58.23	1.00	3641.25	---		
	7/9/18	59.30	59.27	1.03	3641.56	---		
	7/25/18	59.35	58.24	1.06	3641.54	---		
	8/6/18	59.39	58.33	1.01	3641.46	---		
	8/21/18	59.38	58.31	1.07	3641.52	---		
	9/6/18	59.37	58.35	1.02	3641.48	---		
	9/21/18	59.95	58.39	1.20	3641.07	---		
	10/1/18	59.58	58.31	1.27	3641.50	---		
	11/28/18	59.60	58.23	1.37	3641.57	---		
	12/13/18	59.71	58.30	1.41	3641.49	---		
	1/9/19	58.38	57.95	0.43	3641.95	---		
	2/7/19	60.47	58.52	1.95	3641.22	---		
	2/21/19	59.94	58.46	1.48	3641.33	---		
	3/7/19	59.71	58.46	1.25	3641.35	---		
3/18/19	60.08	58.46	1.62	3641.31	---			
4/2/19	60.11	58.43	1.68	3641.34	---			
4/18/19	61.12	58.66	2.46	3641.03	---			
5/2/19	60.67	58.68	1.99	3641.06	---			
6/9/19	60.57	57.70	2.87	3641.94	---			
6/24/19	60.57	58.68	1.89	3641.07	---			
7/23/19	61.04	58.70	2.34	3641.00	---			
8/2/19	60.27	58.77	1.50	3641.02	---			
8/23/19	60.94	58.73	2.21	3640.98	---			
9/6/19	60.45	58.82	1.63	3640.95	---			
9/18/19	61.06	58.88	2.18	3640.84	---			
9/30/19	60.63	58.88	1.75	3640.88	---			
11/19/19	62.73	58.77	3.96	3640.76	---			
1/31/20	62.70	58.99	3.71	3640.57	---			
2/13/20	62.81	58.96	3.85	3640.58	---			

Appendix D
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Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ²)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ²)
RW-4 Cont.	2/26/20	62.65	58.98	3.67	3640.58	---		
	3/12/20	62.87	58.87	4.00	3640.66	---		
	3/26/20	62.91	58.52	4.39	3640.97	---		
	4/10/20	62.80	58.91	3.89	3640.63	---		
	4/24/20	62.83	58.94	3.89	3640.60	---		
	5/13/20	63.27	58.41	4.86	3641.03	---		
	6/23/20	65.55	58.64	6.91	3640.59	---		
	8/20/20	63.45	59.00	4.45	3640.48	---		
	9/24/20	63.75	59.07	4.68	3640.39	---		
	11/12/20	63.88	59.11	4.77	3640.34	---		
	3/16/21	63.92	59.09	4.83	3640.35	---		
	5/18/21	64.26	59.23	5.03	3640.19	---		
	7/19/21	63.54	59.38	4.16	3640.13	---		
	9/13/21	64.67	59.44	5.23	3639.96	---		
	11/4/21	64.09	59.45	4.64	3640.01	---		
	3/8/22	63.95	59.46	4.49	3640.02	---		
	6/8/22	64.37	59.62	4.75	3639.83	---		
	8/15/22	64.27	59.65	4.62	3639.81	---		
	11/18/22	63.90	59.85	4.05	3639.67	---		
	2/9/23	64.40	59.92	4.48	3639.56	---		
	2/21/23	63.42	59.90	3.52	3639.68	---		
	3/9/23	61.25	58.57	2.68	3641.09	---		
	4/4/23	62.67	60.43	2.24	3639.28	---		
	4/21/23	63.73	60.12	3.61	3639.45	---		
	5/2/23	62.22	60.13	2.09	3639.59	---		
	5/30/23	62.53	60.22	2.31	3639.48	---		
	6/12/23	62.71	60.18	2.53	3639.50	---		
	6/27/23	64.00	60.10	3.90	3639.44	---		
	7/13/23	64.16	60.11	4.05	3639.41	---		
	7/25/23	64.10	60.09	4.01	3639.44	---		
	8/8/23	64.05	60.02	4.03	3639.50	---		
	8/22/23	63.62	59.30	4.32	3640.20	---		
10/3/23	64.59	60.19	4.40	3639.30	---			
10/18/23	64.50	60.19	4.31	3639.31	---			
10/31/23	64.65	60.25	4.40	3639.24	---			
11/14/23	64.21	60.28	3.93	3639.26	---			
11/28/23	64.51	60.24	4.27	3639.26	---			
12/14/23	64.25	60.32	3.93	3639.22	---			
12/27/23	64.40	60.31	4.09	3639.21	---			
1/9/24	62.79	59.42	3.37	3640.17	---			
1/22/24	64.60	60.28	4.32	3639.22	---			
2/13/24	64.23	60.79	3.44	3638.80	---			

Appendix D
 Cumulative Groundwater Gauging Data
 Chevron Environmental Management Company
 Former New Mexico "F" State Tank Battery
 Lea County, New Mexico



Well ID <i>toc elevation</i>	Date	Depth to Groundwater (ft toc ²)	Depth to LNAPL (ft toc ²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl ¹)	Total Well Depth (ft toc ²)	Well Diameter (inches)	Well Screen Interval (ft bgs ²)
RW-4 Cont.	2/29/24	63.98	60.22	3.76	3639.33	---		
	3/12/24	63.90	60.30	3.60	3639.27	---		
	4/15/24	64.29	60.34	3.95	3639.19	---		
	5/14/24	63.37	60.41	2.96	3639.23	---		
	5/28/24	64.17	60.49	3.68	3639.07	---		
	6/10/24	64.29	60.48	3.81	3639.07	---		
	6/25/24	64.31	59.50	4.81	3639.94	---		
	7/10/24	64.56	60.55	4.01	3638.98	---		
	8/6/24	61.91	60.52	1.39	3639.28	---		
	8/19/24	64.22	60.63	3.59	3638.94	---		
	9/4/24	62.12	60.42	1.70	3639.34	---		
	9/18/24	62.30	60.62	1.68	3639.15	---		
	10/1/24	64.51	60.63	3.88	3638.91	---		
	10/17/24	64.05	60.88	3.17	3638.73	---		
	10/31/24	64.88	60.70	4.18	3638.81	---		
	11/11/24	64.21	60.79	3.42	3638.80	---		
	11/25/24	64.02	60.58	3.44	3639.01	---		
	12/9/24	63.66	60.75	2.91	3638.89	---		
	12/23/24	64.91	60.70	4.21	3638.81	---		
	1/7/25	62.93	60.20	2.73	3639.46	---		
	1/22/25	63.41	61.20	2.21	3638.51	---		
	2/5/25	63.38	60.75	2.63	3638.92	---		
	2/24/25	63.30	60.73	2.57	3638.95	---		
	3/11/25	64.25	60.72	3.53	3638.86	---		
	3/18/25	64.32	60.52	3.80	3639.03	---		
	4/2/25	64.19	60.71	3.48	3638.87	---		
	4/24/25	64.15	60.69	3.46	3638.89	---		
	5/6/25	64.18	60.64	3.54	3638.94	---		
	6/11/25	63.10	61.06	2.04	3638.67	---		
	6/25/25	63.77	60.27	3.50	3639.31	---		
	7/10/25	62.91	61.11	1.80	3638.64	---		
	7/24/25	62.31	61.01	1.30	3638.80	---		
8/5/25	61.83	60.89	0.94	3638.95	---			
8/27/25	64.60	60.94	3.66	3638.62	---			
9/10/25	64.48	61.00	3.48	3638.58	---			
9/24/25	64.10	61.11	2.99	3638.52	---			
10/6/25	63.14	61.18	1.96	3638.56	---			
11/3/25	61.85	61.20	0.65	3638.67	---			
11/14/25	61.82	61.33	0.49	3638.56	---			
12/10/25	61.87	61.29	0.58	3638.59	---			
12/23/25	62.24	61.38	0.86	3638.47	---			
WW-1 3704.17	6/11/02	66.35	---	---	3637.82	unknown	unknown	unknown
	6/5/03	68.25	---	---	3635.92	---	---	---
	--	----- not gauged since 2003 -----						
WW-2 3703.84	6/11/02	66.18	---	---	3637.66	unknown	unknown	unknown
	11/26/02	66.18	---	---	3637.66	---	---	---
	6/5/03	68.54	---	---	3635.30	---	---	---
	--	----- not gauged since 2003 -----						

Notes:

Data through June 6, 2005 provided by Larson & Associates, Inc.

toc - top of casing.

msl - mean sea level.

bgs - below ground surface.

Corrected groundwater elevations from July 1998 to December 2006 were calculated using LNAPL specific gravity of 0.88.

Corrected groundwater elevations from January 2007 to current were calculated using LNAPL specific gravity of 0.897.

MW-1, MW-2 and MW-9 were plugged and abandoned and replaced with RW-1, RW-2 and RW-3 in November 1999.

Monitor wells (MWs) are 2-inch in diameter (except for MW-9R); Recovery wells (RWs) are 4-inch in diameter.

*MW-9R was installed May 19, 2015. An elevation survey of this monitoring well had not been completed prior to submission of this report.

Appendix E

Cumulative Summary of Groundwater Analytical Results

Appendix E
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-3	7/28/98	0.003	<0.001	<0.001	0.002	36
MW-3	2/16/01	<0.005	<0.005	<0.005	<0.005	31
MW-3	6/12/02	<0.005	<0.005	<0.005	<0.005	27.1
MW-3	11/26/03	<0.001	<0.001	<0.001	<0.001	31.9
MW-3	6/6/03	<0.001	<0.001	<0.001	<0.001	27.5
MW-3	12/4/03	<0.001	<0.001	<0.001	0.0017	26.1
MW-3	7/2/04	<0.005	<0.005	<0.005	<0.005	28
MW-3	12/21/04	<0.005	<0.005	<0.005	<0.005	32.3
MW-3	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	34.3
MW-3	12/13/05	<0.005	<0.005	<0.005	<0.010	29.3
MW-3	6/27/06	<0.005	<0.005	<0.005	<0.010	31.1
MW-3	12/19/06	<0.005	<0.005	<0.005	<0.001	28
MW-3	6/27/07	<0.005	<0.005	<0.005	<0.010	31
MW-3	12/14/07	<0.005	<0.005	<0.005	<0.010	31
MW-3	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	30
MW-3	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	32
DUP	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	32
MW-3	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	35
MW-3	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	40
MW-3	7/1/10	<0.00020	<0.00020	<0.00020	<0.00070	50.4
MW-3	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	64
MW-3	6/2/11	0.00053J	0.00061J	<0.0010	<0.0030	90.7
MW-3	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	85.0
DUP	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	85.7
MW-3	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	114
MW-3	11/26/12	<0.0001	<0.0002	0.00116	0.00345	94.6
MW-3	6/14/13	<0.001	<0.002	<0.001	<0.001	79
MW-3	11/27/13	<0.001	<0.002	<0.001	<0.001	101
MW-3	8/1/14	<0.001	<0.002	<0.001	<0.003	75.6
MW-3	12/12/14	<0.001	<0.002	<0.001	<0.003	137
MW-3	6/9/15	<0.001	<0.002	<0.001	<0.003	89.1
MW-3	12/9/15	<0.001	<0.002	<0.001	<0.003	67.8
MW-3	6/21/16	<0.002	<0.002	<0.002	<0.002	57.9
MW-3	12/8/16	<0.002	<0.002	<0.002	<0.002	60.6
MW-3	6/14/17	<0.002	<0.002	<0.002	<0.002	55.0
MW-3	11/29/17	<0.002	<0.002	<0.002	<0.002	49.8
MW-3	6/14/18	<0.002	<0.002	<0.002	<0.002	50.6
MW-3	12/13/18	<0.0020	<0.0020	<0.002	<0.002	50.0
MW-3	5/6/19	<0.0020	<0.0020	<0.0020	<0.0020	53.0

Appendix E
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-3	11/19/19	<0.0010	<0.0010	<0.0010	<0.0020	59.0
MW-3	6/23/20	<0.00018	<0.00020	<0.00021	<0.00037	140
MW-3	5/19/21	0.000457 J	<0.000412	<0.000160	<0.000510	75
MW-3	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	74.6
MW-3	6/12/23	<0.000190	0.00142	<0.000160 U	0.000538 J	84.3
MW-3	6/10/24	< 0.000190	< 0.000412	< 0.000160	0.000532 J	88.7
MW-3	6/11/25	<0.000190	<0.000412	<0.000160	<0.000510	94.7
MW-4	7/28/98	<0.001	<0.001	<0.001	<0.001	94
MW-4	2/16/01	<0.005	<0.005	<0.005	0.008	170
MW-4	6/12/02	<0.005	<0.005	<0.005	<0.005	85.6
MW-4	11/26/03	0.002	<0.001	<0.001	<0.005	160
MW-4	6/6/03	<0.001	<0.001	<0.001	0.0026	111
MW-4	12/4/03	0.0015	<0.001	<0.001	<0.001	104
MW-4	7/2/04	<0.001	<0.001	<0.001	<0.001	72.4
MW-4	12/21/04	<0.005	<0.005	<0.005	<0.005	59.7
MW-4	6/6/05	<0.001	<0.001	<0.001	<0.001	58.4
MW-4	12/13/05	<0.005	<0.005	<0.005	<0.010	55.3
MW-4	6/27/06	0.000597	<0.0005	<0.0005	<0.001	48.8
MW-4	12/19/06	<0.005	<0.005	<0.005	<0.001	34
MW-4	6/27/07	<0.005	<0.005	<0.005	<0.010	39
MW-4	12/13/07	0.000968	<0.000500	<0.000500	0.00254	63.1
MW-4	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	61
MW-4	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	52
MW-4	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	59
MW-4	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	58
MW-4	7/1/10	0.00032J	<0.00020	<0.00020	<0.00070	54.5
MW-4	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	57.5
DUP	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	58.4
MW-4	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	49.8
MW-4	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	142
MW-4	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	73.7
MW-4	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	69.3
MW-4	6/14/13	<0.001	<0.002	<0.001	<0.001	59.5
MW-4	11/27/13	<0.001	<0.002	<0.001	<0.001	65.1
MW-4	8/1/14	<0.001	<0.002	<0.001	<0.003	71.8
MW-4	12/12/14	<0.001	<0.002	<0.001	<0.003	104
MW-4	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	98.5
MW-4	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	70.6
MW-4	6/21/16	<0.002	<0.002	<0.002	<0.002	60.9
MW-4	12/8/16	<0.002	<0.002	<0.002	<0.002	86.2

Appendix E
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-4	6/14/17	<0.002	<0.002	<0.002	<0.002	86.4
MW-4	11/29/17	<0.002	<0.002	<0.002	<0.002	81.7
MW-4	6/14/18	<0.002	<0.002	<0.002	<0.002	96.4
MW-4	12/13/18	<0.002	<0.002	<0.002	<0.002	77.6
MW-4	5/6/19	<0.002	<0.002	<0.002	<0.002	54.6
MW-4	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	99
MW-4	6/23/20	<0.00018	<0.00020	<0.00021	<0.00037	130
MW-4	5/19/21	0.000206 J	<0.000412	<0.000160	<0.000510	77.4
MW-4	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	84.8
MW-4	6/12/23	<0.000190	<0.000412	<0.000160	<0.000510	85.8
MW-4	6/10/24	< 0.000190	< 0.000412	< 0.000160	< 0.000510	95.0 J6
MW-4	6/11/25	<0.000190	<0.000412	<0.000160	<0.000510	106
MW-5	7/28/98	<0.001	<0.001	<0.001	<0.001	360
MW-5	2/16/01	<0.005	<0.005	<0.005	<0.005	120
MW-5	6/12/02	<0.005	<0.005	<0.005	<0.005	90.2
MW-5	11/26/03	0.002	<0.001	0.003	<0.002	59.1
MW-5	6/6/03	<0.001	<0.001	<0.001	<0.001	48.6
MW-5	12/4/03	<0.001	<0.001	<0.001	<0.001	36.5
MW-5	7/2/04	<0.005	<0.005	<0.005	<0.005	32.9
MW-5	12/21/04	<0.005	<0.005	<0.005	<0.005	39.8
MW-5	6/6/05	<0.001	<0.001	<0.001	<0.001	41.1
MW-5	12/13/05	<0.005	<0.005	<0.005	<0.010	39.7
MW-5	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	43.2
MW-5	12/19/06	<0.005	<0.005	<0.005	<0.001	51
MW-5	6/27/07	<0.005	<0.005	<0.005	<0.001	67
MW-5	12/14/07	<0.005	<0.005	<0.005	<0.001	101
MW-5	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	78.7
MW-5	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	100
MW-5	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	140
MW-5	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	110
MW-5	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	115
MW-5	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	168
MW-5	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	134
MW-5	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	172
MW-5	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	137
MW-5	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	110
MW-5	6/14/13	<0.001	<0.002	<0.001	<0.001	66.6
MW-5	11/27/13	<0.001	<0.002	<0.001	<0.001	72.3
MW-5	8/1/14	<0.001	<0.002	<0.001	<0.003	69.5
MW-5	12/12/14	<0.001	<0.002	<0.001	<0.003	66.9

Appendix E
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-5	6/9/15	<0.001	<0.002	<0.001	<0.003	69.1
MW-5	12/9/15	<0.001	<0.002	<0.001	<0.003	44
MW-5	6/21/16	<0.002	<0.002	<0.002	<0.002	39.9
MW-5	12/8/16	<0.002	<0.002	<0.002	<0.002	39.1
MW-5	6/14/17	<0.002	<0.002	<0.002	<0.002	42.1
MW-5	11/29/17	<0.002	<0.002	<0.002	<0.002	35.6
MW-5	6/14/18	<0.002	<0.002	<0.002	<0.002	37.6
MW-5	12/13/18	<0.002	<0.002	<0.002	<0.002	37.4
MW-5	5/6/19	<0.002	<0.002	<0.002	<0.002	114.0
MW-5	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	49.0
MW-5	6/23/20	<0.00018	<0.00020	<0.00021	<0.00037	80
MW-5	5/19/21	<0.000190	<0.000412	<0.000160	<0.000510	60
MW-5	11/4/21	0.000199 B J	<0.000412	<0.000160	<0.000510	67
MW-5	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	73.5
MW-5	11/18/22	<0.000190	<0.000412	0.000287 B J	<0.000510	80.4
MW-5	6/12/23	<0.000190	<0.000412	<0.000160	<0.000510	80.4
MW-5	6/10/24	< 0.000190	< 0.000412	< 0.000160	< 0.000510	93.4
MW-5	6/11/25	<0.000190	<0.000412	<0.000160	<0.000510	102
MW-6	7/28/98	<0.001	<0.001	<0.001	<0.001	43.0
MW-6	2/16/01	<0.005	<0.005	0.006	0.006	52
MW-6	6/12/02	<0.001	<0.001	<0.001	<0.001	54.1
MW-6	11/26/03	<0.001	<0.001	<0.001	<0.002	65
MW-6	6/6/03	<0.001	<0.001	<0.001	<0.001	43.7
MW-6	12/4/03	<0.001	<0.001	<0.001	<0.001	45.3
MW-6	7/2/04	<0.001	<0.001	<0.001	<0.001	57.5
MW-6	12/21/04	<0.005	<0.005	<0.005	<0.005	61.3
MW-6	6/6/05	<0.001	<0.001	<0.001	<0.001	66.7
MW-6	12/13/05	<0.005	<0.005	<0.005	<0.010	80.9
MW-6	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	86.4
MW-6	12/19/06	<0.005	<0.005	<0.005	<0.001	88
MW-6	3/16/07	<0.0005	<0.0005	<0.0005	<0.001	92.2
MW-6	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	110
MW-6	9/27/07	<0.0005	<0.0005	<0.0005	<0.001	99.5
MW-6	12/14/07	<0.0005	<0.0005	<0.0005	<0.001	99.2
MW-6	3/6/08	<0.00037	<0.00039	<0.00042	<0.00035	88.8
MW-6	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	117
MW-6	9/4/08	<0.00037	<0.00039	<0.00042	<0.00035	130
MW-6	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	130
MW-6	3/5/09	<0.00037	<0.00039	<0.00042	<0.00035	140
MW-6	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	160

Appendix E
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-6	9/9/09	<0.00037	<0.00039	<0.00042	<0.00035	160
MW-6	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	140
MW-6	3/23/10	<0.0002	<0.0002	<0.0002	<0.0007	169
MW-6	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	161
DUP	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	169
MW-6	9/22/10	0.00033J	<0.0001	<0.0001	<0.0003	157
MW-6	11/9/10	<0.0001	<0.0001	0.0010	<0.0003	182
MW-6	3/3/11	<0.0001	<0.0001	<0.0001	<0.0003	225
MW-6	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	215
DUP	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	221
MW-6	9/27/11	<0.0001	<0.0001	<0.0001	<0.0003	222
MW-6	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	198
MW-6	3/7/12	<0.0001	<0.0001	<0.0001	<0.0001	189
MW-6	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	259
DUP	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	260
MW-6	9/20/12	<0.0001	<0.0001	<0.0001	<0.0001	221
MW-6	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	176
MW-6	3/14/13	<0.001	<0.002	<0.001	<0.001	195
MW-6	6/14/13	<0.001	<0.002	<0.001	<0.001	219
MW-6	9/13/13	<0.001	<0.002	<0.001	<0.001	209
MW-6	11/27/13	<0.001	<0.002	<0.001	<0.001	220
MW-6	3/21/14	<0.001	<0.002	<0.001	<0.003	231
MW-6	8/1/14	<0.001	<0.002	<0.001	<0.003	220
MW-6	9/22/14	<0.001	<0.002	<0.001	<0.003	186
MW-6	12/12/14	<0.001	<0.002	<0.001	<0.003	217
MW-6	3/31/15	<0.001	<0.002	<0.001	<0.003	201
MW-6	6/9/15	<0.001	<0.002	<0.001	<0.003	209
MW-6	9/16/15	<0.001	<0.002	<0.001	<0.003	212
MW-6	12/9/15	<0.001	<0.002	<0.001	<0.003	175
MW-6	3/7/16	<0.001	<0.002	<0.001	<0.001	218
MW-6	6/21/16	<0.002	<0.002	<0.002	<0.002	201
MW-6	8/31/16	<0.002	<0.002	<0.002	<0.002	222
MW-6	12/8/16	<0.002	<0.002	<0.002	<0.002	190
MW-6	3/9/17	<0.002	<0.002	<0.002	<0.002	182
MW-6	6/14/17	<0.002	<0.002	<0.002	<0.002	168
MW-6	9/5/17	<0.002	<0.002	<0.002	<0.002	151
MW-6	11/29/17	<0.002	<0.002	<0.002	<0.002	124
MW-6	3/22/18	<0.002	<0.002	<0.002	<0.002	127
MW-6	6/14/18	<0.002	<0.002	<0.002	<0.002	110
MW-6	9/6/18	<0.002	<0.002	<0.002	<0.002	106

Appendix E
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-6	12/14/18	<0.002	<0.002	<0.002	<0.002	78.7
MW-6	2/7/19	<0.002	<0.002	<0.002	<0.002	100.0
MW-6	5/6/19	<0.002	<0.002	<0.002	<0.002	108.0
MW-6	8/2/19	<0.002	<0.002	<0.002	<0.002	112.0
DUP	8/2/19	<0.002	<0.002	<0.002	<0.002	115.0
MW-6	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	80.0
MW-6	3/27/20	<0.00018	<0.00020	<0.00021	<0.00037	80 F1
MW-6	6/23/20	<0.00018	<0.00020	<0.00021	<0.00037	110 F1
MW-6	8/21/20	<0.00018	<0.00020	<0.00021	<0.00037	110.0
MW-6	11/11/20	<0.00018	<0.00020	<0.00021	<0.00037	91 H
MW-6	3/16/21	<0.000190	<0.000412	<0.000160	<0.000510	73.8
MW-6	5/19/21	<0.000190	<0.000412	<0.000160	<0.000510	77.4
MW-6	7/19/21	<0.000190	<0.000412	<0.000160	<0.000510	75.4
MW-6	11/4/21	0.000288 BJ	<0.000412	<0.000160	<0.000510	87.6
MW-6	3/8/22	<0.000190	<0.000412	<0.000160	<0.000510	82.3
MW-6	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	68.4
MW-6	8/15/22	<0.000190	<0.000412	<0.000160	<0.000510	75.6
MW-6	11/18/22	<0.000190	<0.000412	0.000286 B J	<0.000510	73.8
MW-6	3/9/23	<0.000190	<0.000412	<0.000160	<0.000510	68.5
MW-6	6/12/23	<0.000190	<0.000412	<0.000160	<0.000510	68.8
MW-6	8/8/23	0.00148	0.00631	0.00147	0.0125	69.2
MW-6	11/14/23	<0.000190	<0.000412	0.000286 B J	<0.000510	65.2
MW-6	3/12/24	< 0.000190	< 0.000412	< 0.000160	< 0.000510	66.0 J6
MW-6	6/10/24	< 0.000190	< 0.000412	< 0.000160	< 0.000510	70.5 J6
MW-6	9/16/24	0.000473 B J	<0.000412	<0.000160	<0.000510	72.7 J6
MW-6	11/11/24	<0.000190	<0.000412	<0.000160	<0.000510	71.0
MW-6	3/18/25	<0.000190	<0.000412	<0.000160	<0.000510	72.1
MW-6	6/11/25	<0.000190	<0.000412	<0.000160	<0.000510	77.2 J6
MW-6	8/27/25	0.000207 J	0.000581 J	0.000233 J	0.00109 J	71.2
MW-6	11/14/25	<0.000190	<0.000412	0.000161 B J	<0.000510	77.7
MW-7	7/28/98	<0.001	<0.001	<0.001	<0.001	82
MW-7	2/16/01	<0.005	<0.005	<0.005	<0.005	150
MW-7	6/12/02	<0.005	<0.005	<0.005	<0.005	96.7
MW-7	11/26/03	<0.001	<0.001	<0.001	<0.002	133
MW-7	6/6/03	<0.001	<0.001	<0.001	<0.001	199
MW-7	12/4/03	<0.001	<0.001	<0.001	<0.001	230
MW-7	7/2/04	<0.001	<0.001	<0.001	<0.001	215
MW-7	12/21/04	<0.005	<0.005	<0.005	<0.005	274
MW-7	6/6/05	<0.001	<0.001	<0.001	<0.001	221
MW-7	12/13/05	<0.005	<0.005	<0.005	<0.010	204
MW-7	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	158
MW-7	12/19/06	<0.005	<0.005	<0.005	<0.001	130

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Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-7	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	110
MW-7	12/13/07	<0.0005	<0.0005	<0.0005	<0.001	135
MW-7	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	72.4
MW-7	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	66
MW-7	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	58
MW-7	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	47
MW-7	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	51.2
MW-7	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	67.1
MW-7	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	69.4
MW-7	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	76.6
MW-7	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	91.5
MW-7	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	67.7
MW-7	6/14/13	<0.001	<0.002	<0.001	<0.001	56.4
MW-7	11/27/13	<0.001	<0.002	<0.001	<0.001	78.1
MW-7	8/1/14	<0.001	<0.002	<0.001	<0.003	68.3
MW-7	12/12/14	<0.001	<0.002	<0.001	<0.003	122
MW-7	6/9/15	<0.001	<0.002	<0.001	<0.003	79.2
MW-7	12/9/15	<0.001	<0.002	<0.001	<0.003	94
MW-7	6/21/16	<0.002	<0.002	<0.002	<0.002	52.3
MW-7	12/8/16	<0.002	<0.002	<0.002	<0.002	69.0
MW-7	6/14/17	<0.002	<0.002	<0.002	<0.002	68.6
MW-7	11/29/17	<0.002	<0.002	<0.002	<0.002	62.6
MW-7	6/14/18	<0.002	<0.002	<0.002	<0.002	58.5
MW-7	12/13/18	<0.002	<0.002	<0.002	<0.002	49.9
MW-7	5/6/19	<0.002	<0.002	<0.002	<0.002	58.7
MW-7	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	50.0
MW-7	6/23/20	<0.00018	<0.00020	0.00034 J	<0.00037	61
MW-7	5/19/21	<0.000190	<0.000412	<0.000160	<0.000510	48
Dup	5/19/21	<0.000190	<0.000412	<0.000160	<0.000510	48
MW-7	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	62.5
MW-7	6/12/23	<0.000190	<0.000412	<0.000160	<0.000510	73.8
MW-7	6/10/24	< 0.000190	< 0.000412	< 0.000160	< 0.000510	90.7
MW-7	6/11/25	<0.000190	<0.000412	<0.000160	<0.000510	107
MW-8	7/28/98	<0.001	<0.001	<0.001	<0.001	29
MW-8	2/16/01	<0.005	<0.005	<0.005	<0.005	94
MW-8	6/12/02	<0.005	<0.005	<0.005	<0.005	180
MW-8	11/26/03	<0.001	<0.001	<0.001	<0.002	239
MW-8	6/6/03	<0.001	<0.001	<0.001	<0.001	244
MW-8	12/4/03	<0.001	<0.001	<0.001	<0.001	251
MW-8	7/2/04	<0.005	<0.005	<0.005	<0.005	206

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Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-8	12/21/04	<0.005	<0.005	<0.005	<0.005	244
MW-8	6/6/05	<0.0001	<0.0001	<0.0001	<0.0001	227
MW-8	12/13/05	<0.005	<0.005	<0.005	<0.010	144
MW-8	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	92.6
MW-8	12/19/06	<0.005	<0.005	<0.005	<0.001	83.0
MW-8	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	79
MW-8	12/13/07	<0.0005	<0.0005	<0.0005	<0.001	82.9
MW-8	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	54.9
MW-8	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	47
MW-8	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	45
MW-8	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	36
MW-8	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	38.4
MW-8	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	47.6
MW-8	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	51.8
MW-8	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	72.7
MW-8	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	95.7
MW-8	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	77.6
MW-8	6/14/13	<0.001	<0.002	<0.001	<0.001	83.3
DUP	6/14/13	<0.001	<0.002	<0.001	<0.001	84.3
MW-8	11/27/13	<0.001	<0.002	<0.001	<0.001	72.2
DUP	11/27/13	<0.001	<0.002	<0.001	<0.001	71.3
MW-8	8/1/14	<0.001	<0.002	<0.001	<0.003	63.2
MW-8	12/12/14	<0.001	<0.002	<0.001	<0.003	82.8
MW-8	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	79.8
DUP	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	84.6
MW-8	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	69.9
DUP	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	68.0
MW-8	6/21/16	<0.002	<0.002	<0.002	<0.002	74.4
DUP	6/21/16	<0.002	<0.002	<0.002	<0.002	68.0
MW-8	12/8/16	<0.002	<0.002	<0.002	<0.002	71.4
DUP	12/8/16	<0.002	<0.002	<0.002	<0.002	72.2
MW-8	6/14/17	<0.002	<0.002	<0.002	<0.002	67.1
DUP	6/14/17	<0.002	<0.002	<0.002	<0.002	63.8
MW-8	11/29/17	<0.002	<0.002	<0.002	<0.002	58.7
MW-8	6/14/18	<0.002	<0.002	<0.002	<0.002	68.0
DUP	6/14/18	<0.002	<0.002	<0.002	<0.002	67.9
MW-8	12/13/18	<0.002	<0.002	<0.002	<0.002	62.6
DUP	12/13/18	<0.002	<0.002	<0.002	<0.002	61.5
MW-8	5/6/19	<0.002	<0.002	<0.002	<0.002	102.0

Appendix E
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Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-8	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	65.0
MW-8	6/23/20	<0.00018	<0.00020	<0.00021	<0.00037	89.0
MW-8	5/19/21	<0.000190	<0.000412	<0.000160	<0.000510	46.9
MW-8	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	51.6
MW-8	6/12/23	<0.000190	<0.000412	<0.000160	<0.000510	63.6
MW-8	6/10/24	< 0.000190	< 0.000412	< 0.000160	< 0.000510	75.6
MW-8	6/11/25	<0.000190	<0.000412	<0.000160	<0.000510	86.2
MW-9R	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	145
MW-9R	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	119
MW-9R	6/21/16	<0.002	<0.002	<0.002	<0.002	109
MW-9R	12/8/16	<0.002	<0.002	<0.002	<0.002	120
MW-9R	6/14/17	<0.002	<0.002	<0.002	<0.002	115
MW-9R	11/29/17	<0.002	<0.002	<0.002	<0.002	98
MW-9R	6/15/18	<0.002	<0.002	<0.002	<0.002	92.2
MW-9R	12/13/18	<0.002	<0.002	<0.002	<0.002	84.0
MW-9R	5/6/19	<0.002	<0.002	<0.002	<0.002	94.1
MW-9R	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	110.0
MW-9R	6/23/20	<0.00018	<0.00020	<0.00021	<0.00037	170
DUP	6/23/20	<0.00018	<0.00020	<0.00021	<0.00037	160
MW-9R	5/19/21	<0.000190	<0.000412	<0.000160	<0.000510	104
MW-9R	11/4/21	0.000274 B J	<0.000412	<0.000160	<0.000510	110
MW-9R	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	104
MW-9R	11/18/22	<0.000190	<0.000412	0.000288 B J	<0.000510	97.0
MW-9R	6/12/23	0.000246 J	0.0038	<0.000160	<0.000510	90.6
MW-9R	6/10/24	< 0.000190	< 0.000412	< 0.000160	< 0.000510	82.2
MW-9R	6/11/25	<0.000190	<0.000412	<0.000160	<0.000510	76.0 J6
WW-1	7/28/98	<0.001	<0.001	<0.001	<0.001	100
WW-1	6/12/02	<0.001	<0.001	<0.001	<0.001	43.6
WW-1	11/26/02	<0.001	<0.001	<0.001	<0.002	80
WW-1	6/6/03	<0.001	<0.001	<0.001	<0.001	73.4
WW-1	12/4/03	<0.001	<0.001	<0.001	<0.001	65.3
WW-1	7/2/04	<0.001	<0.001	<0.001	<0.001	66.5
WW-1	12/21/04	<0.005	<0.005	<0.005	<0.005	74.3
WW-1	6/6/05	<0.0001	<0.0001	<0.0001	<0.0001	63.4
WW-1	12/13/05	<0.005	<0.005	<0.005	<0.010	41.1
WW-1	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	50
WW-1	12/19/06	<0.005	<0.005	<0.005	<0.001	80.0
WW-1	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	52
WW-1	12/14/07	<0.0005	<0.0005	<0.0005	<0.001	59.8
WW-1	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	64.1
DUP	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	64.4

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Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride	
New Mexico Water Quality Control Commission Groundwater Standard							
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²	
WW-1	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	73	
WW-1	6/17/09	<0.00037	<0.00039	<0.00042	<0.00035	60	
WW-1	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	64	
WW-1	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	41	
WW-1	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	77	
WW-1	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	73.6	
WW-1	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	50.2	
WW-1	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	90	
WW-1	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	69.9	
WW-1	6/14/13	<0.001	<0.002	<0.001	<0.001	53.7	
WW-1	11/27/13	----- not sampled -----					
WW-1	8/1/14	<0.001	<0.002	<0.001	<0.003	56.4	
WW-1	12/12/14	<0.001	<0.002	<0.001	<0.003	71.6	
WW-1	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	64.8	
WW-1	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	45	
WW-1	6/21/16	<0.002	<0.002	<0.002	<0.002	37.0	
WW-1	12/8/16	<0.002	<0.002	<0.002	<0.002	42.1	
WW-1	6/14/17	<0.002	<0.002	<0.002	<0.002	34.0	
WW-1	11/29/17	<0.002	0.0559	0.225	0.0411	49.4	
DUP	11/29/17	<0.002	0.059	0.241	0.0456	49.0	
WW-1	12/21/17	<0.002	<0.002	<0.002	<0.002	--	
WW-1	6/15/18	<0.002	<0.002	<0.002	<0.002	42.6	
WW-1	12/18/18	<0.002	<0.002	<0.002	<0.002	45.3	
WW-1	5/6/19	<0.002	<0.002	<0.002	<0.002	60.4	
DUP	5/6/19	<0.002	<0.002	<0.002	<0.002	55.5	
WW-1	6/23/20	<0.00018	<0.00020	<0.00021	<0.00037	84	
WW-1	5/19/21	----- not accessible -----					
WW-1	6/8/22	----- not accessible -----					
WW-1	6/12/23	----- not accessible -----					
WW-1	6/10/24	----- not accessible -----					
WW-2	6/12/02	<0.001	<0.001	<0.001	<0.001	53.7	
WW-2	11/26/02	<0.001	<0.001	<0.001	<0.002	70.9	
WW-2	6/6/03	<0.001	<0.001	<0.001	<0.001	71.1	
WW-2	12/4/03	<0.001	<0.001	<0.001	<0.001	52.4	
WW-2	7/2/04	<0.001	<0.001	<0.001	<0.001	51.0	
WW-2	12/21/04	<0.005	<0.005	<0.005	<0.005	55.6	
WW-2	6/6/05	<0.001	<0.001	<0.001	<0.001	55.3	
WW-2	12/13/05	<0.005	<0.005	<0.005	<0.010	75.3	
WW-2	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	69.7	
WW-2	12/19/06	<0.005	<0.005	<0.005	<0.001	57.0	

Appendix E
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride	
New Mexico Water Quality Control Commission Groundwater Standard							
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²	
WW-2	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	46	
WW-2	12/14/07	<0.0005	<0.0005	<0.0005	<0.001	83.1	
WW-2	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	65.9	
WW-2	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	73	
WW-2	6/17/09	<0.00037	<0.00039	<0.00042	<0.00035	60	
WW-2	11/20/09	----- not sampled -----					
WW-2	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	66.3	
WW-2	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	77.2	
WW-2	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	74.9	
WW-2	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	76.5	
WW-2	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	63.1	
WW-2	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	50.3	
WW-2	6/14/13	<0.001	<0.002	<0.001	<0.001	81.1	
WW-2	11/27/13	----- not sampled -----					
WW-2	8/1/14	<0.001	<0.002	<0.001	<0.003	95.5	
WW-2	12/12/14	<0.001	<0.002	<0.001	<0.003	112	
WW-2	6/9/15	<0.001	<0.002	<0.001	<0.003	108	
WW-2	12/9/15	<0.001	<0.002	<0.001	<0.003	45.8	
WW-2	6/21/16	<0.002	<0.002	<0.002	<0.002	28.9	
WW-2	12/8/16	<0.002	<0.002	<0.002	<0.002	39.1	
WW-2	6/14/17	<0.002	<0.002	<0.002	<0.002	29.8	
WW-2	11/29/17	<0.002	<0.002	<0.002	<0.002	39.8	
WW-2	6/13/18	----- not sampled -----					
WW-2	12/14/18	<0.002	0.00715	<0.0020	0.0828	45.9	
WW-2	2/7/19	<0.002	<0.002	<0.002	<0.002	41.5	
WW-2	5/6/19	<0.002	<0.002	<0.002	<0.002	97.5	
WW-2	5/19/21	----- not accessible -----					
WW-2	6/8/22	----- not accessible -----					
WW-2	6/12/23	----- not accessible -----					
WW-2	6/10/24	----- not accessible -----					
RW-1	6/5/08	0.0119	<0.0039	<0.0042	<0.0035	36.2	
RW-1	6/17/09	0.012	0.0055	0.0018	0.012	49	
RW-1	7/1/10	0.022	0.00070J	0.0027	0.017	41.1	
RW-1	6/26/12	0.0113	<0.00100	0.00514	0.0350	44.1	
RW-1	6/27/13	0.00745	0.00963	0.0101	0.0549	33.8	
RW-1	8/1/14	0.0172	0.00226	0.00499	0.0237	36.2	

Appendix E
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Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005¹	1.0¹	0.7¹	0.62¹	250²
RW-1	6/9/15	0.0109	<0.00200	0.00373	0.0182	43.7
RW-1	12/9/15	----- not sampled -----				
RW-1	6/21/16	----- not sampled -----				
RW-1	12/8/16	0.0137	<0.002	<0.002	0.0089	74.9
RW-1	6/14/17	----- not sampled -----				
RW-1	11/29/17	0.0148	<0.002	0.00372	0.0108	101
RW-1	6/14/18	----- not sampled -----				
RW-1	12/14/18	<0.002	0.00363	<0.002	0.0137	131
RW-1	5/6/19	----- LNAPL Present -----				
RW-1	11/19/19	----- LNAPL Present -----				
RW-1	6/23/20	----- LNAPL Present -----				
RW-1	11/11/20	----- LNAPL Present -----				
RW-1	5/19/21	----- LNAPL Present -----				
RW-1	11/4/21	----- LNAPL Present -----				
RW-1	6/8/22	----- LNAPL Present -----				
RW-1	11/18/22	----- LNAPL Present -----				
RW-1	6/12/23	----- LNAPL Present -----				
RW-1	11/14/23	----- LNAPL Present -----				
RW-1	3/12/24	----- LNAPL Present -----				
RW-1	6/10/24	----- LNAPL Present -----				
RW-1	9/16/24	----- LNAPL Present -----				
RW-1	11/11/24	----- LNAPL Present -----				
RW-1	3/18/25	----- LNAPL Present -----				
RW-1	6/11/25	----- LNAPL Present -----				
RW-1	8/27/25	----- LNAPL Present -----				
RW-1	11/14/25	----- LNAPL Present -----				
RW-2	6/27/07	0.00287	<0.0025	<0.0025	0.0303	60
RW-2	6/5/08	<0.0037	<0.0039	<0.0042	<0.0035	51.1
RW-2	6/17/09	<0.00037	0.0046	<0.00042	0.016	44
RW-2	7/1/10	0.0016	<0.0002	<0.0002	0.0067	30.1
RW-2	6/26/12	<0.00100	<0.001	<0.001	0.00362	43.9
RW-2	6/14/13	0.00178	0.00268	0.00171	0.0262	30
RW-2	8/1/14	0.00103	0.00106	<0.001	0.00788	41
RW-2	12/12/14	0.00154	<0.002	<0.001	0.00348	52.7
RW-2	6/9/15	0.00112	<0.002	<0.001	<0.003	49.5
RW-2	12/9/15	<0.00100	<0.002	0.00102	0.00725	48
RW-2	6/21/16	<0.002	<0.002	<0.002	<0.002	44
RW-2	12/8/16	<0.002	<0.002	<0.002	<0.002	55.8
RW-2	6/14/17	0.00408	0.00219	<0.002	<0.002	62.3
RW-2	11/29/17	<0.002	<0.002	<0.002	<0.002	65.0
RW-2	6/15/18	0.00306	<0.002	<0.002	<0.002	72.4
RW-2	12/14/18	<0.002	<0.002	<0.002	0.00215	73.4
RW-2	5/6/19	----- not sampled -----				

Appendix E
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride	
New Mexico Water Quality Control Commission Groundwater Standard							
		0.005¹	1.0¹	0.7¹	0.62¹	250²	
RW-2	11/19/19	----- not sampled -----					
RW-2	6/23/20	<0.00018	<0.00020	<0.00021	<0.00037	120 F1	
RW-2	11/11/20	0.00038 J	<0.00020	<0.00021	<0.00037	93 H	
RW-2	5/19/21	----- LNAPL Present -----					
RW-2	11/4/21	----- LNAPL Present -----					
RW-2	6/8/22	----- LNAPL Present -----					
RW-2	11/18/22	----- LNAPL Present -----					
RW-2	6/12/23	----- LNAPL Present -----					
RW-2	11/14/23	----- LNAPL Present -----					
RW-2	6/11/24	0.000397 J	< 0.000412	< 0.000160	0.000573 J	81.2	
RW-2	11/11/24	0.000377 J	<0.000412	0.000505	<0.000510	79.3	
RW-2	6/11/25	0.000233 J	0.000516 J	<0.000160	0.00369	86.4	
RW-2	11/14/25	0.000374 B J	<0.000412	<0.000160	0.000969 B J	91.7	
RW-3	6/11/02	<0.005	<0.005	<0.005	<0.005	25.9	
RW-3	12/3/04	<0.001	<0.001	<0.001	<0.001	36.6	
RW-3	6/27/07	0.00855	<0.0025	0.0122	0.027	130	
RW-3	6/5/08	<0.0037	<0.0039	<0.0042	0.0129	90.6	
RW-3	6/17/09	0.0052	0.0042	0.011	0.025	74	
RW-3	11/20/09	<0.00037	0.001	0.0027	0.0076	60	
DUP	11/20/09	<0.00037	0.0013	0.003	0.008	60	
RW-3	7/1/10	0.0065	<0.0002	0.0066	0.003	68.3	
RW-3	6/26/12	0.00682	<0.001	<0.001	<0.001	55.4	
RW-3	6/14/13	0.0092	0.0291	0.0253	0.138	37.3	
RW-3	8/1/14	0.00709	<0.002	<0.001	0.132	41.5	
RW-3	12/12/14	0.00588	<0.002	<0.001	0.00691	47.7	
RW-3	6/9/15	0.00512	<0.002	<0.001	0.00309	40	
RW-3	12/9/15	0.00432	<0.002	<0.001	<0.003	39	
RW-3	6/21/16	0.00408	<0.002	<0.002	<0.002	36.3	
RW-3	12/8/16	0.00574	<0.002	<0.002	0.00265	45.3	
RW-3	6/14/17	0.00850	<0.002	<0.002	<0.002	43.4	
RW-3	11/29/17	0.00563	<0.002	<0.002	<0.002	49.1	
RW-3	6/15/18	<0.002	<0.002	<0.002	<0.002	53.1	
RW-3	12/14/18	0.00262	<0.002	<0.002	0.00322	55.4	
RW-3	5/6/19	----- not sampled -----					
RW-3	11/19/19	----- not sampled -----					
RW-3	6/23/20	<0.00018	<0.00020	<0.00021	0.0020	100	
RW-3	11/11/20	0.00025 J	<0.00020	0.00032 J	0.0034	68 H	
RW-3	5/19/21	----- LNAPL Present -----					
RW-3	11/4/21	----- LNAPL Present -----					
RW-3	6/8/22	----- LNAPL Present -----					
RW-3	11/18/22	----- LNAPL Present -----					

Appendix E
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005¹	1.0¹	0.7¹	0.62¹	250²
RW-3	6/12/23	----- LNAPL Present -----				
RW-3	11/14/23	----- LNAPL Present -----				
RW-3	6/11/24	0.000475 J	< 0.000412	< 0.000160	0.00176	77.5
RW-3	11/11/24	0.000758	0.000443 J	0.00114	<0.000510	76.8
RW-3	6/11/25	0.000463 J	<0.000412	<0.000160	0.00100 J	82.3
RW-3	11/14/25	0.00240	<0.000412	0.00485	0.0148	84.9
RW-4	6/26/12	0.00221	<0.001	0.00410	0.0188	65.1
RW-4	6/27/13	0.0245	0.0396	0.0779	0.196	43.1
RW-4	8/1/14	0.0155	0.00107	0.00766	0.0286	34.2
RW-4	6/9/15	0.0127	<0.002	0.00752	0.030	39.5
RW-4	12/9/15	----- not sampled -----				
RW-4	6/21/16	----- not sampled -----				
RW-4	12/8/16	0.0139	<0.002	0.00758	0.03070	45.7
RW-4	6/14/17	----- not sampled -----				
RW-4	11/29/17	0.0268	0.00761	0.03040	0.1310	48.9
RW-4	6/14/18	----- LNAPL Present -----				
RW-4	12/14/18	----- LNAPL Present -----				
RW-4	5/6/19	----- LNAPL Present -----				
RW-4	11/19/19	----- LNAPL Present -----				
RW-4	6/23/20	----- LNAPL Present -----				
RW-4	11/11/20	----- LNAPL Present -----				
RW-4	5/19/21	----- LNAPL Present -----				
RW-4	11/4/21	----- LNAPL Present -----				
RW-4	6/8/22	----- LNAPL Present -----				
RW-4	11/18/22	----- LNAPL Present -----				
RW-4	6/12/23	----- LNAPL Present -----				
RW-4	11/14/23	----- LNAPL Present -----				
RW-4	3/12/24	----- LNAPL Present -----				
RW-4	6/10/24	----- LNAPL Present -----				
RW-4	9/16/24	----- LNAPL Present -----				
RW-4	11/11/24	----- LNAPL Present -----				
RW-4	3/18/25	----- LNAPL Present -----				
RW-4	6/11/25	----- LNAPL Present -----				
RW-4	8/27/25	----- LNAPL Present -----				
RW-4	11/14/25	----- LNAPL Present -----				

Appendix E
Cumulative Groundwater Analytical Data
Chevron Environmental Management Company
Former New Mexico "F" State Tank Battery
Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
New Mexico Water Quality Control Commission Groundwater Standard						
		0.005¹	1.0¹	0.7¹	0.62¹	250²

Notes:

Results shown in milligrams per litre (mg/L).

< = Analyte not detected at or above the Method Detection Limit (MDL)

Data through June 6, 2005 provided by Larson & Associates, Inc.

Bold indicates results exceed New Mexico Water Quality Control Commission (NMWQCC).

F1 = MS and/or MSD recovery exceeds control limits.

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

J6 = The sample matrix interfered with the ability to make any accurate determination; spike value is low.

H = Sample was prepped or analyzed beyond the specified holding time

¹Human Health Standards for Groundwater.

²Other Standards for Domestic Water Supply.

³RW-1 and RW-4 were sampled by dropping a disposable PVC bailer below the level of LNAPL.

⁴MW-9R was installed May 19, 2015.

⁵ Sample was analyzed as a solid instead of a water due to oily nature of sample and results are in mg/kg.

Appendix F

Analytical Reports



ANALYTICAL REPORT

March 26, 2025

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Arcadis - Chevron - NM

Sample Delivery Group: L1837784
 Samples Received: 03/19/2025
 Project Number: 30272111.0003
 Description: NM F- State Tank Battery
 Site: NM F-STATE
 Report To: Morgan Jordan
 1004 N Big Spring Street
 Suite 121
 Midland, TX 79701

Entire Report Reviewed By:










Katie Ingram
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

Cp: Cover Page	1	
Tc: Table of Contents	2	
Ss: Sample Summary	3	
Cn: Case Narrative	4	
Sr: Sample Results	5	
MW-6-W-250318 L1837784-01	5	
Qc: Quality Control Summary	6	
Wet Chemistry by Method 300.0	6	
Volatile Organic Compounds (GC) by Method 8021B	8	
Gl: Glossary of Terms	9	
Al: Accreditations & Locations	10	
Sc: Sample Chain of Custody	11	
		

SAMPLE SUMMARY

MW-6-W-250318 L1837784-01 GW

Collected by	Collected date/time	Received date/time
Michael Rodriguez	03/18/25 10:15	03/19/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG2472241	1	03/23/25 12:06	03/23/25 12:06	DLH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG2476391	1	03/26/25 01:05	03/26/25 01:05	JBE	Mt. Juliet, TN

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Gl
- ⁸Al
- ⁹Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Katie Ingram
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Collected date/time: 03/18/25 10:15

L1837784

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	72.1		0.547	1.00	1	03/23/2025 12:06	WG2472241

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	1	03/26/2025 01:05	WG2476391
Toluene	U		0.000412	0.00100	1	03/26/2025 01:05	WG2476391
Ethylbenzene	U		0.000160	0.000500	1	03/26/2025 01:05	WG2476391
Total Xylene	U		0.000510	0.00150	1	03/26/2025 01:05	WG2476391
(S) a,a,a-Trifluorotoluene(PID)	105			79.0-125		03/26/2025 01:05	WG2476391

Wet Chemistry by Method 300.0

[L1837784-01](#)

Method Blank (MB)

(MB) R4190047-1 03/23/25 03:34

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		0.547	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1837372-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1837372-01 03/23/25 04:01 • (DUP) R4190047-3 03/23/25 04:14

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	20.2	20.4	1	0.758		15

L1837747-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1837747-01 03/23/25 07:50 • (DUP) R4190047-8 03/23/25 08:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	44300	44500	500	0.235		15

Laboratory Control Sample (LCS)

(LCS) R4190047-2 03/23/25 03:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	41.5	104	90.0-110	

L1837372-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1837372-01 03/23/25 04:01 • (MS) R4190047-4 03/23/25 04:28

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Chloride	40.0	20.2	56.5	90.8	1	90.0-110	

L1837747-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1837747-01 03/23/25 06:56 • (MS) R4190047-6 03/23/25 07:23 • (MSD) R4190047-7 03/23/25 07:37

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	40.0	43600	34200	34600	0.000	0.000	50	90.0-110	<u>EV</u>	<u>EV</u>	1.01	15

Wet Chemistry by Method 300.0

[L1837784-01](#)

L1837747-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1837747-01 03/23/25 06:56 • (MS) R4190047-6 03/23/25 07:23 • (MSD) R4190047-7 03/23/25 07:37

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%

Sample Narrative:

OS: Dilution due to matrix impact on instrumentation at lower dilution

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Volatile Organic Compounds (GC) by Method 8021B

[L1837784-01](#)

Method Blank (MB)

(MB) R4191225-4 03/25/25 23:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	0.000273	U	0.000190	0.000500
Toluene	0.000412	U	0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	105			79.0-125

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R4191225-1 03/25/25 19:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0434	86.8	77.0-122	
Toluene	0.0500	0.0457	91.4	80.0-121	
Ethylbenzene	0.0500	0.0454	90.8	80.0-123	
Total Xylene	0.150	0.134	89.3	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			104	79.0-125	

7 Gl

8 Al

9 Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

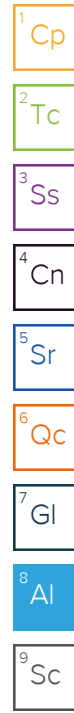
7 GI

8 AI

9 Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122


Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		



¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address: Arcadis - Chevron - NM 1004 N Big Spring Street Suite 121 Midland, TX 79701			Billing Information: Attn: Lauren Krueger 630 Plaza Drive, Suite 200 Highlands Ranch, CO 80129			Analysis / Container / Preservative										Chain of Custody Page <u>1</u> of <u>1</u>																																																											
Report to: Morgan Jordan 281-644-9437			Email To: douglas.jordan@arcadis.com; lauren.krueger@arcadis.com			Pres Chk BTEX 40ml/Amb-HCl CHLORIDE (300.0) 125mlHDPE-NoPres										 PEOPLE ADVANCING SCIENCE MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf																																																											
Project Description: NM F- State Tank Battery			City/State Collected: <u>Monrovia, NM</u>		Please Circle: PT <input checked="" type="radio"/> MT <input type="radio"/> CT <input type="radio"/> ET											SDG # <u>183778M</u> C196		Acctnum: CHEVARCNM Template: T182339 Prelogin: P1137226 PM: 840 - Katie Ingram PB: Shipped Via:																																																									
Regulatory Program (DOD, RCRA, DW, etc):			Client Project # 30272111.0003		Lab Project # CHEVARCNM-NMFSTATE											Date Results Needed No. of Cntrs		Remarks Sample # (lab only)																																																									
Collected by (print): <u>Michael Rodriguez</u>			Site/Facility ID # NM F-STATE		P.O. #																																																																						
Collected by (signature): <u>Michael Rodriguez</u>			Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day <input type="checkbox"/> STD TAT		Quote #	Sample ID Comp/Grab Matrix * Depth Date Time		No. of Cntrs		Remarks Sample # (lab only)																																																																	
Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>																																																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample ID</th> <th>Comp/Grab</th> <th>Matrix *</th> <th>Depth</th> <th>Date</th> <th>Time</th> <th>No. of Cntrs</th> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>MW-6-11250318</td> <td>G</td> <td>GW</td> <td>-</td> <td>3/18/25</td> <td>1615</td> <td>3</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>GW</td> <td></td> <td></td> <td></td> <td>3</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>GW</td> <td></td> <td></td> <td></td> <td>3</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="12" style="text-align: center;"> <div style="font-size: 2em; font-weight: bold; opacity: 0.5;"> NAK 3/18/25 </div> </td> </tr> </tbody> </table>												Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs							MW-6- 11 250318	G	GW	-	3/18/25	1615	3	X	X							GW				3	X	X							GW				3	X	X					<div style="font-size: 2em; font-weight: bold; opacity: 0.5;"> NAK 3/18/25 </div>											
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs																																																																					
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<div style="font-size: 2em; font-weight: bold; opacity: 0.5;"> NAK 3/18/25 </div>																																																																											
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____			Remarks:			pH _____ Temp _____			Flow _____ Other _____			Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> NP Y N COC Signed/Accurate: <input checked="" type="checkbox"/> Y N Bottles arrive intact: <input checked="" type="checkbox"/> Y N Correct bottles used: <input checked="" type="checkbox"/> Y N Sufficient volume sent: <input checked="" type="checkbox"/> Y N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y N																																																															
Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier			Tracking # <u>76408465608</u>			Trip Blank Received: Yes / No <input checked="" type="checkbox"/> HCL / MeOH TBR			Temp: _____ °C Bottles Received: <u>3</u>			If preservation required by Login: Date/Time																																																															
Relinquished by (Signature): <u>Michael Rodriguez</u>			Date: <u>3/18/25</u>	Time: <u>1450</u>	Received by (Signature): <u>James Colston</u>			Date: <u>3/19/25</u> Time: <u>0900</u>			Hold: _____ Condition: NCF / OK																																																																
Relinquished by (Signature): <u>James Colston</u>			Date: <u>3/18/25</u>	Time: <u>1600</u>	Received by (Signature): <u>Abby Parks</u>			Date: <u>03/19/25</u> Time: <u>1600</u>			Hold: _____ Condition: NCF / OK																																																																
Relinquished by (Signature): _____			Date: _____	Time: _____	Received for lab by (Signature): _____			Date: _____ Time: _____			Hold: _____ Condition: NCF / OK																																																																

AB03/19/2025



ANALYTICAL REPORT

June 30, 2025

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Arcadis - Chevron - NM

Sample Delivery Group: L1869057
 Samples Received: 06/12/2025
 Project Number: 30272111.00003
 Description: NM F- State
 Site: NM F-STATE
 Report To: Morgan Jordan
 1004 N Big Spring Street
 Suite 121
 Midland, TX 79701

Entire Report Reviewed By:

Katie Ingram
Project Manager

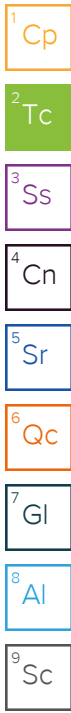
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

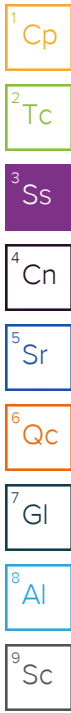
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Cn: Case Narrative	5
Sr: Sample Results	6
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MW-3-W-250611 L1869057-02	7
MW-6-W-250611 L1869057-03	8
MW-4-W-250611 L1869057-04	9
MW-5-W-250611 L1869057-05	10
MW-7-W-250611 L1869057-06	11
MW-9R-W-250611 L1869057-07	12
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Sc: Sample Chain of Custody	20



MW-8-W-250611 L1869057-01

Collected by Daniel McGee
 Collected date/time 06/11/25 10:10
 Received date/time 06/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG2537806	5	06/28/25 04:51	06/28/25 04:51	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG2539112	1	06/15/25 12:31	06/15/25 12:31	CDD	Mt. Juliet, TN



MW-3-W-250611 L1869057-02

Collected by Daniel McGee
 Collected date/time 06/11/25 10:30
 Received date/time 06/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG2537806	5	06/28/25 05:02	06/28/25 05:02	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG2539112	1	06/15/25 12:53	06/15/25 12:53	CDD	Mt. Juliet, TN

MW-6-W-250611 L1869057-03

Collected by Daniel McGee
 Collected date/time 06/11/25 10:45
 Received date/time 06/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG2537806	1	06/28/25 05:12	06/28/25 05:12	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG2539112	1	06/15/25 13:15	06/15/25 13:15	CDD	Mt. Juliet, TN

MW-4-W-250611 L1869057-04

Collected by Daniel McGee
 Collected date/time 06/11/25 11:05
 Received date/time 06/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG2537806	5	06/28/25 05:53	06/28/25 05:53	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG2539112	1	06/15/25 13:37	06/15/25 13:37	CDD	Mt. Juliet, TN

MW-5-W-250611 L1869057-05

Collected by Daniel McGee
 Collected date/time 06/11/25 11:20
 Received date/time 06/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG2537806	5	06/28/25 06:03	06/28/25 06:03	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG2539112	1	06/15/25 13:59	06/15/25 13:59	CDD	Mt. Juliet, TN

MW-7-W-250611 L1869057-06

Collected by Daniel McGee
 Collected date/time 06/11/25 11:30
 Received date/time 06/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG2537806	5	06/28/25 06:14	06/28/25 06:14	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG2539112	1	06/15/25 14:20	06/15/25 14:20	CDD	Mt. Juliet, TN

MW-9R-W-250611 L1869057-07

Collected by Daniel McGee
 Collected date/time 06/11/25 11:50
 Received date/time 06/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG2537806	1	06/28/25 06:24	06/28/25 06:24	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG2539112	1	06/15/25 14:42	06/15/25 14:42	CDD	Mt. Juliet, TN

RW-2-W-250611 L1869057-08

Collected by Daniel McGee
 Collected date/time 06/11/25 11:48
 Received date/time 06/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG2537806	5	06/28/25 06:55	06/28/25 06:55	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG2540182	1	06/17/25 13:10	06/17/25 13:10	CDD	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

RW-3-W-250611 L1869057-09

Collected by Daniel McGee
 Collected date/time 06/11/25 12:15
 Received date/time 06/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG2537806	1	06/28/25 07:05	06/28/25 07:05	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG2540182	1	06/17/25 12:48	06/17/25 12:48	CDD	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Katie Ingram
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Collected date/time: 06/11/25 10:10

L1869057

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	86.2		2.74	5.00	5	06/28/2025 04:51	WG2537806

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	06/15/2025 12:31	WG2539112
Toluene	U		0.000412	0.00100	1	06/15/2025 12:31	WG2539112
Ethylbenzene	U		0.000160	0.000500	1	06/15/2025 12:31	WG2539112
Total Xylene	U		0.000510	0.00150	1	06/15/2025 12:31	WG2539112
(S) a,a,a-Trifluorotoluene(PID)	99.6			79.0-125		06/15/2025 12:31	WG2539112

Collected date/time: 06/11/25 10:30

L1869057

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	94.7		2.74	5.00	5	06/28/2025 05:02	WG2537806

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	06/15/2025 12:53	WG2539112
Toluene	U		0.000412	0.00100	1	06/15/2025 12:53	WG2539112
Ethylbenzene	U		0.000160	0.000500	1	06/15/2025 12:53	WG2539112
Total Xylene	U		0.000510	0.00150	1	06/15/2025 12:53	WG2539112
(S) a,a,a-Trifluorotoluene(PID)	99.2			79.0-125		06/15/2025 12:53	WG2539112

Collected date/time: 06/11/25 10:45

L1869057

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	77.2	J6	0.547	1.00	1	06/28/2025 05:12	WG2537806

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	06/15/2025 13:15	WG2539112
Toluene	U		0.000412	0.00100	1	06/15/2025 13:15	WG2539112
Ethylbenzene	U		0.000160	0.000500	1	06/15/2025 13:15	WG2539112
Total Xylene	U		0.000510	0.00150	1	06/15/2025 13:15	WG2539112
(S) a,a,a-Trifluorotoluene(PID)	98.2			79.0-125		06/15/2025 13:15	WG2539112

Collected date/time: 06/11/25 11:05

L1869057

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	106		2.74	5.00	5	06/28/2025 05:53	WG2537806

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	06/15/2025 13:37	WG2539112
Toluene	U		0.000412	0.00100	1	06/15/2025 13:37	WG2539112
Ethylbenzene	U		0.000160	0.000500	1	06/15/2025 13:37	WG2539112
Total Xylene	U		0.000510	0.00150	1	06/15/2025 13:37	WG2539112
(S) a,a,a-Trifluorotoluene(PID)	98.1			79.0-125		06/15/2025 13:37	WG2539112

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 06/11/25 11:20

L1869057

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	102		2.74	5.00	5	06/28/2025 06:03	WG2537806

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	06/15/2025 13:59	WG2539112
Toluene	U		0.000412	0.00100	1	06/15/2025 13:59	WG2539112
Ethylbenzene	U		0.000160	0.000500	1	06/15/2025 13:59	WG2539112
Total Xylene	U		0.000510	0.00150	1	06/15/2025 13:59	WG2539112
(S) a,a,a-Trifluorotoluene(PID)	98.5			79.0-125		06/15/2025 13:59	WG2539112

Collected date/time: 06/11/25 11:30

L1869057

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	107		2.74	5.00	5	06/28/2025 06:14	WG2537806

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	06/15/2025 14:20	WG2539112
Toluene	U		0.000412	0.00100	1	06/15/2025 14:20	WG2539112
Ethylbenzene	U		0.000160	0.000500	1	06/15/2025 14:20	WG2539112
Total Xylene	U		0.000510	0.00150	1	06/15/2025 14:20	WG2539112
(S) a,a,a-Trifluorotoluene(PID)	99.3			79.0-125		06/15/2025 14:20	WG2539112

Collected date/time: 06/11/25 11:50

L1869057

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	76.0	J6	0.547	1.00	1	06/28/2025 06:24	WG2537806

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	06/15/2025 14:42	WG2539112
Toluene	U		0.000412	0.00100	1	06/15/2025 14:42	WG2539112
Ethylbenzene	U		0.000160	0.000500	1	06/15/2025 14:42	WG2539112
Total Xylene	U		0.000510	0.00150	1	06/15/2025 14:42	WG2539112
(S) a,a,a-Trifluorotoluene(PID)	97.9			79.0-125		06/15/2025 14:42	WG2539112

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 06/11/25 11:48

L1869057

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	86.4		2.74	5.00	5	06/28/2025 06:55	WG2537806

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Benzene	0.000233	J	0.000190	0.000500	1	06/17/2025 13:10	WG2540182
Toluene	0.000516	J	0.000412	0.00100	1	06/17/2025 13:10	WG2540182
Ethylbenzene	U		0.000160	0.000500	1	06/17/2025 13:10	WG2540182
Total Xylene	0.00369		0.000510	0.00150	1	06/17/2025 13:10	WG2540182
(S) a,a,a-Trifluorotoluene(PID)	98.4			79.0-125		06/17/2025 13:10	WG2540182

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 06/11/25 12:15

L1869057

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	82.3		0.547	1.00	1	06/28/2025 07:05	WG2537806

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.000463	J	0.000190	0.000500	1	06/17/2025 12:48	WG2540182
Toluene	U		0.000412	0.00100	1	06/17/2025 12:48	WG2540182
Ethylbenzene	U		0.000160	0.000500	1	06/17/2025 12:48	WG2540182
Total Xylene	0.00100	J	0.000510	0.00150	1	06/17/2025 12:48	WG2540182
(S) a,a,a-Trifluorotoluene(PID)	99.3			79.0-125		06/17/2025 12:48	WG2540182

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

[L1869057-01,02,03,04,05,06,07,08,09](#)

Method Blank (MB)

(MB) R4237647-1 06/28/25 04:31

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		0.547	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1869057-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1869057-03 06/28/25 05:12 • (DUP) R4237647-3 06/28/25 05:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	77.2	75.8	1	1.79		15

L1869057-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1869057-07 06/28/25 06:24 • (DUP) R4237647-6 06/28/25 06:34

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	76.0	76.8	1	1.02		15

Laboratory Control Sample (LCS)

(LCS) R4237647-2 06/28/25 04:41

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	43.2	108	90.0-110	

L1869057-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1869057-03 06/28/25 05:12 • (MS) R4237647-4 06/28/25 05:33 • (MSD) R4237647-5 06/28/25 05:43

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	40.0	77.2	99.3	103	55.2	64.3	1	90.0-110	<u>J6</u>	<u>E J6</u>	3.63	15

L1869057-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1869057-07 06/28/25 06:24 • (MS) R4237647-7 06/28/25 06:45

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Chloride	40.0	76.0	104	69.3	1	90.0-110	<u>E J6</u>

Volatile Organic Compounds (GC) by Method 8021B

[L1869057-01,02,03,04,05,06,07](#)

Method Blank (MB)

(MB) R4230821-4 06/15/25 10:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	101			79.0-125

Laboratory Control Sample (LCS)

(LCS) R4230821-1 06/15/25 08:36

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Benzene	0.0500	0.0539	108	77.0-122	
Toluene	0.0500	0.0528	106	80.0-121	
Ethylbenzene	0.0500	0.0551	110	80.0-123	
Total Xylene	0.150	0.165	110	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			101	79.0-125	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8021B

[L1869057-08,09](#)

Method Blank (MB)

(MB) R4232145-3 06/17/25 12:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	102			79.0-125

Laboratory Control Sample (LCS)

(LCS) R4232145-1 06/17/25 09:31

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Benzene	0.0500	0.0432	86.4	77.0-122	
Toluene	0.0500	0.0433	86.6	80.0-121	
Ethylbenzene	0.0500	0.0456	91.2	80.0-123	
Total Xylene	0.150	0.137	91.3	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			103	79.0-125	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

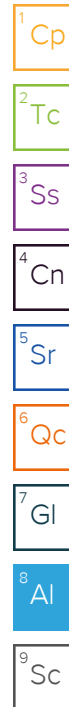
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122


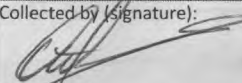
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

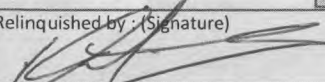
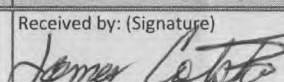
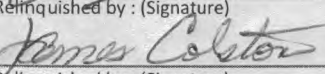
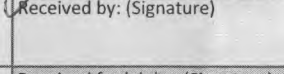
¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: Arcadis - Chevron - NM 1004 N Big Spring Street Suite 121 Midland, TX 79701		Billing Information: Attn: Lauren Krueger 630 Plaza Drive, Suite 200 Highlands Ranch, CO 80129		Pres Chk		Analysis / Container / Preservative						Chain of Custody Page <u>1</u> of <u>1</u>			
Report to: Morgan Jordan 281-644-9437		Email To: douglas.jordan@arcadis.com;lauren.krueger@a										 MT JULIET, TN 12065 Lebanon Rd. Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf			
Project Description: NM F- State		City/State Collected: <u>Monument, NM</u>		Please Circle: PT MT <u>CT</u> ET											
Regulatory Program(DOD,RCRA,DW,etc):		Client Project # 30272111.00003		Lab Project # CHEVARCNM-NMFSTATE		BTEX 40mlAmb+HCl CHLORIDE (300.0) 125mlHDPE-NoPres						SDG # <u>1869057</u> B024			
Collected by (print): <u>Daniel Mihal</u>		Site/Facility ID # NM F-STATE		P.O. #								Acctnum: CHEVARCNM		Template: T182339	
Collected by (signature): 		Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day ___ STD TAT		Quote #								Date Results Needed <u>standard</u>		Prelogin: P1156349	
Immediately Packed on Ice N ___ Y <u>X</u>												No. of Cntrs		PM: 840 - Katie Ingram	
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	Shipped Via:		Remarks	Sample # (lab only)				
<u>MW-8-W-250611</u>		<u>G</u>	<u>GW</u>		<u>6-11-25</u>	<u>1010</u>	<u>3</u>				<u>01</u>				
<u>MW-3-W-250611</u>			<u>GW</u>			<u>1030</u>	<u>3</u>				<u>02</u>				
<u>MW-6-W-250611</u>			<u>GW</u>			<u>1045</u>	<u>3</u>				<u>03</u>				
<u>MW-4-W-250611</u>			<u>GW</u>			<u>1105</u>	<u>3</u>				<u>04</u>				
<u>MW-5-W-250611</u>			<u>GW</u>			<u>1120</u>	<u>3</u>				<u>05</u>				
<u>MW-7-W-250611</u>			<u>GW</u>			<u>1130</u>	<u>3</u>				<u>06</u>				
<u>MW-9R-W-250611</u>			<u>GW</u>			<u>1150</u>	<u>3</u>				<u>07</u>				
<u>RW-2-W-250611</u>			<u>GW</u>			<u>1148</u>	<u>3</u>				<u>08</u>				
<u>RW-3-W-250611</u>		<u>G</u>	<u>GW</u>		<u>6-11-25</u>	<u>1215</u>	<u>3</u>				<u>09</u>				

* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:		pH _____ Temp _____		Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: <u>Y</u> <u>N</u> COC Signed/Accurate: <u>Y</u> <u>N</u> Bottles arrive intact: <u>Y</u> <u>N</u> Correct bottles used: <u>Y</u> <u>N</u> Sufficient volume sent: <u>Y</u> <u>N</u> If Applicable VOA Zero Headspace: <u>Y</u> <u>N</u> Preservation Correct/Checked: <u>Y</u> <u>N</u> RAD Screen <0.5 mR/hr: <u>Y</u> <u>N</u>			
Samples returned via: ___ UPS ___ FedEx ___ Courier		Tracking # <u>7464 08465928</u>									
Relinquished by: (Signature) 		Date: <u>6-11-25</u>	Time: <u>15:20</u>	Received by: (Signature) 		Trip Blank Received: Yes / No HCL / MeOH TBR		Bottles Received: <u>3.5 + 4 = 3.9 27</u>			
Relinquished by: (Signature) 		Date: <u>6-11-25</u>	Time: <u>16:10</u>	Received by: (Signature) 		Temp: <u>ITAC</u>		If preservation required by Login: Date/Time			
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) <u>Alexa Mitchell</u>		Date:	Time: <u>6/11/25 0900</u>	Hold:		Condition: NCF <u>1 OK</u>	



ANALYTICAL REPORT

September 08, 2025

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Arcadis - Chevron - NM

Sample Delivery Group: L1893326
 Samples Received: 08/28/2025
 Project Number: 30272111 - 00003
 Description: NM F State
 Site: NM F-STATE
 Report To: Morgan Jordan
 1004 N Big Spring Street
 Suite 121
 Midland, TX 79701

Entire Report Reviewed By:










Katie Ingram
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

MW-6-W-250827 L1893326-01

Collected by	Collected date/time	Received date/time
Heath Boyd	08/27/25 11:00	08/28/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG2589739	1	08/29/25 23:50	08/29/25 23:50	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG2592288	1	09/02/25 07:40	09/02/25 07:40	NCD	Mt. Juliet, TN

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Gl
- ⁸Al
- ⁹Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Katie Ingram
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Collected date/time: 08/27/25 11:00

L1893326

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	71.2		0.547	1.00	1	08/29/2025 23:50	WG2589739

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.000207	J	0.000190	0.000500	1	09/02/2025 07:40	WG2592288
Toluene	0.000581	J	0.000412	0.00100	1	09/02/2025 07:40	WG2592288
Ethylbenzene	0.000233	J	0.000160	0.000500	1	09/02/2025 07:40	WG2592288
Total Xylene	0.00109	J	0.000510	0.00150	1	09/02/2025 07:40	WG2592288
(S) a,a,a-Trifluorotoluene(PID)	114			79.0-125		09/02/2025 07:40	WG2592288

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

[L1893326-01](#)

Method Blank (MB)

(MB) R4266783-1 08/29/25 21:43

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		0.547	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1892634-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1892634-09 08/29/25 22:29 • (DUP) R4266783-3 08/29/25 22:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	1.48	1.55	1	4.67		15

L1893538-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1893538-05 08/30/25 02:07 • (DUP) R4266783-5 08/30/25 02:17

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	19.8	17.5	1	12.5		15

Laboratory Control Sample (LCS)

(LCS) R4266783-2 08/29/25 21:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	39.3	98.4	90.0-110	

L1892634-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1892634-09 08/29/25 22:29 • (MS) R4266783-4 08/29/25 22:52

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Chloride	40.0	1.48	36.8	88.4	1	90.0-110	<u>J6</u>

L1893538-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1893538-05 08/30/25 02:07 • (MS) R4266783-6 08/30/25 02:30 • (MSD) R4266783-7 08/30/25 02:40

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	40.0	19.8	54.1	57.0	85.8	92.9	1	90.0-110	<u>J6</u>		5.14	15

Volatile Organic Compounds (GC) by Method 8021B

[L1893326-01](#)

Method Blank (MB)

(MB) R4269497-4 09/02/25 02:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	113			79.0-125

Laboratory Control Sample (LCS)

(LCS) R4269497-3 09/02/25 01:41

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Benzene	0.0500	0.0529	106	77.0-122	
Toluene	0.0500	0.0473	94.6	80.0-121	
Ethylbenzene	0.0500	0.0504	101	80.0-123	
Total Xylene	0.150	0.150	100	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			109	79.0-125	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Guide to Reading and Understanding Your Laboratory Report

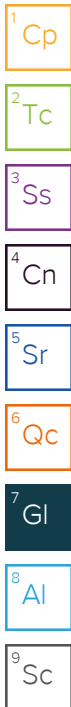
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.



Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address:
Arcadis - Chevron - NM
 1004 N Big Spring Street
 Suite 121
 Midland, TX 79701

Billing Information:
 Attn: Lauren Krueger
 630 Plaza Drive, Suite 200
 Highlands Ranch, CO 80129

Report to:
Morgan Jordan 281-644-9437

Email To:
 douglas.jordan@arcadis.com;lauren.krueger@a

Project Description:
 NM F State

City/State Collected: **Hobbs, NM**

Please Circle:
 PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):
 Client Project # **30272111 - 00003**
 Lab Project # **CHEVARCNM-NMFSTATE**

Collected by (print):
Heath Boyd

Site/Facility ID #
NM F-STATE

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day STD TAT

Quote #

Immediately Packed on Ice N ___ Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
-----------	-----------	----------	-------	------	------	--------------

MW-6-W-250827	Grab	GW		8/27/25	1100	4
		GW				4
		GW				4
	X	GW				4

Analysis / Container / Preservative	
BTEX 40mlAmb+HCl	CHLORIDE 125mlHDPE-NoPres

Chain of Custody Page ___ of ___

PEOPLE ADVANCING SCIENCE

MT JULIET, TN

1206S Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # **1893326**

D174

Acctnum: **CHEVARCNM**
 Template: **T260143**
 Prelogin: **P1172176**
 PM: **840 - Katie Ingram**
 PB: **KB 8/20**

Shipped Via: **FedEX Ground**

Remarks	Sample # (lab only)
	-01

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:

pH _____ Temp _____
 Flow _____ Other _____

Samples returned via:
 ___ UPS ___ FedEx ___ Courier

Tracking # **4746 8272 7027**

Sample Receipt Checklist

COC Seal Present/Intact: NP N
 COC Signed/Accurate: N
 Bottles arrive intact: N
 Correct bottles used: N
 Sufficient volume sent: N

If Applicable

VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No HCl / MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: _____ °C Bottles Received: 2 292.1-0.1-2.0
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8/28/25 Time: 0900 Hold: Condition: (OK) NCF



ANALYTICAL REPORT

November 25, 2025

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Arcadis - Chevron - NM

Sample Delivery Group: L1919067
 Samples Received: 11/15/2025
 Project Number: 30272111 - 00003
 Description: NM F State
 Site: NM F-STATE
 Report To: Morgan Jordan
 1004 N Big Spring Street
 Suite 121
 Midland, TX 79701

Entire Report Reviewed By:

Katie Ingram
Project Manager

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Pace Analytical National

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Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

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Sr: Sample Results 5

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RW-2-W-251114 L1919067-02 6

RW-3-W-251114 L1919067-03 7

Qc: Quality Control Summary 8

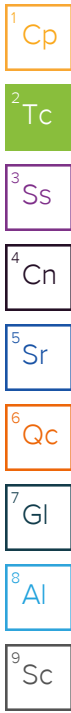
Wet Chemistry by Method 300.0 8

Volatile Organic Compounds (GC) by Method 8021B 10

Gl: Glossary of Terms 11

Al: Accreditations & Locations 12

Sc: Sample Chain of Custody 13



MW-8-W-251114 L1919067-01

Collected by Heath Boyd
 Collected date/time 11/14/25 09:30
 Received date/time 11/15/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG2641475	1	11/20/25 05:29	11/20/25 05:29	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG2644850	1	11/21/25 06:50	11/21/25 06:50	DWR	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

RW-2-W-251114 L1919067-02

Collected by Heath Boyd
 Collected date/time 11/14/25 11:00
 Received date/time 11/15/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG2641475	1	11/20/25 05:39	11/20/25 05:39	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG2644850	1	11/21/25 07:09	11/21/25 07:09	DWR	Mt. Juliet, TN

RW-3-W-251114 L1919067-03

Collected by Heath Boyd
 Collected date/time 11/14/25 12:00
 Received date/time 11/15/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG2641475	1	11/20/25 05:49	11/20/25 05:49	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG2644850	1	11/21/25 07:28	11/21/25 07:28	DWR	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Katie Ingram
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Collected date/time: 11/14/25 09:30

L1919067

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	77.7		0.547	1.00	1	11/20/2025 05:29	WG2641475

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	1	11/21/2025 06:50	WG2644850
Toluene	U		0.000412	0.00100	1	11/21/2025 06:50	WG2644850
Ethylbenzene	0.000161	B J	0.000160	0.000500	1	11/21/2025 06:50	WG2644850
Total Xylene	U		0.000510	0.00150	1	11/21/2025 06:50	WG2644850
(S) a,a,a-Trifluorotoluene(PID)	117			79.0-125		11/21/2025 06:50	WG2644850

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 11/14/25 11:00

L1919067

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	91.7		0.547	1.00	1	11/20/2025 05:39	WG2641475

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Benzene	0.000374	<u>B J</u>	0.000190	0.000500	1	11/21/2025 07:09	WG2644850
Toluene	U		0.000412	0.00100	1	11/21/2025 07:09	WG2644850
Ethylbenzene	U		0.000160	0.000500	1	11/21/2025 07:09	WG2644850
Total Xylene	0.000969	<u>B J</u>	0.000510	0.00150	1	11/21/2025 07:09	WG2644850
(S) a,a,a-Trifluorotoluene(PID)	108			79.0-125		11/21/2025 07:09	WG2644850

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 11/14/25 12:00

L1919067

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	84.9		0.547	1.00	1	11/20/2025 05:49	WG2641475

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Benzene	0.00240		0.000190	0.000500	1	11/21/2025 07:28	WG2644850
Toluene	U		0.000412	0.00100	1	11/21/2025 07:28	WG2644850
Ethylbenzene	0.00485		0.000160	0.000500	1	11/21/2025 07:28	WG2644850
Total Xylene	0.0148		0.000510	0.00150	1	11/21/2025 07:28	WG2644850
(S) a,a,a-Trifluorotoluene(PID)	115			79.0-125		11/21/2025 07:28	WG2644850

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 300.0

[L1919067-01,02,03](#)

Method Blank (MB)

(MB) R4304718-1 11/20/25 04:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		0.547	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1918768-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1918768-01 11/22/25 01:18 • (DUP) R4305449-1 11/22/25 01:31

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	876	881	10	0.492		15

L1919365-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1919365-12 11/22/25 03:20 • (DUP) R4305449-3 11/22/25 03:32

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	3310	3410	50	2.84		15

Laboratory Control Sample (LCS)

(LCS) R4304718-2 11/20/25 04:17

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	40.3	101	90.0-110	

L1918768-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1918768-01 11/20/25 04:27 • (MS) R4304718-4 11/20/25 04:48

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Chloride	40.0	857	790	0.000	1	90.0-110	<u>EV</u>

L1919365-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1919365-12 11/20/25 08:13 • (MS) R4304718-6 11/20/25 08:34 • (MSD) R4304718-7 11/20/25 08:44

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	40.0	3640	2710	2880	0.000	0.000	5	90.0-110	<u>EV</u>	<u>EV</u>	5.95	15

Wet Chemistry by Method 300.0

[L1919067-01,02,03](#)

L1918768-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1918768-01 11/22/25 01:18 • (MS) R4305449-2 11/22/25 01:43

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	876	738	0.000	10	90.0-110	<u>V</u>

L1919365-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1919365-12 11/22/25 03:20 • (MS) R4305449-4 11/22/25 03:43 • (MSD) R4305449-5 11/22/25 03:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	3310	2830	2720	0.000	0.000	50	90.0-110	<u>V</u>	<u>V</u>	3.96	15

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Volatile Organic Compounds (GC) by Method 8021B

L1919067-01,02,03

Method Blank (MB)

(MB) R4305658-5 11/21/25 00:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	0.000211	U	0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	0.000172	U	0.000160	0.000500
Total Xylene	0.000912	U	0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	108			79.0-125

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4305658-1 11/20/25 21:58 • (LCSD) R4305658-2 11/20/25 22:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0515	0.0537	103	107	77.0-122			4.18	20
Toluene	0.0500	0.0506	0.0530	101	106	80.0-121			4.63	20
Ethylbenzene	0.0500	0.0501	0.0527	100	105	80.0-123			5.06	20
Total Xylene	0.150	0.144	0.151	96.0	101	47.0-154			4.75	20
(S) a,a,a-Trifluorotoluene(PID)				108	107	79.0-125				

6 Qc

7 Gl

8 Al

9 Sc

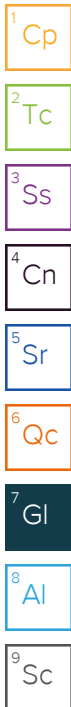
Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.



Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
V	The sample concentration is too high to evaluate accurate spike recoveries.

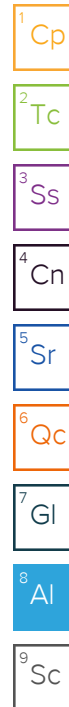
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



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

CONDITIONS

Action 560379

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 560379
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
shanna.smith	Survey monitor well MW-9R.	3/6/2026
shanna.smith	Continue skimmer pump operations in recovery well RW-1 and RW-4 on a bi-weekly schedule.	3/6/2026
shanna.smith	Continue semi-annual groundwater sampling events. Sentry well MW-6 will continue to be gauged and sampled on a quarterly schedule.	3/6/2026
shanna.smith	OCD records indicate that an approved Stage 2 plan is not on file. Pursuant to 19.15.30 NMAC Chevron must submit a Stage 2 Abatement plan no later than June 12, 2026, that meets all of the requirements of 19.15.30.13 NMAC.	3/6/2026
shanna.smith	Alternatively, if a Stage 2 Abatement Report has been approved by OCD, provide a copy of Stage 2 Abatement Report by April 3, 2026, so OCD can update our Online records.	3/6/2026