



Chris Brand

Environmental Remediation/ Facility Decom Advisor

April 27, 2026

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

**Re: 2025 Annual Groundwater Monitoring Report
Lovington Paddock Remediation Site
Lea County, New Mexico
Incident No. NAUTOFAB000028
Case No. 1R-272
OGRID No. 241333**

To whom it may concern:

Please find enclosed the following report:

Lovington Paddock Remediation Site – 2025 Annual Groundwater Monitoring Report

The Report was prepared by Arcadis U.S., Inc. (Arcadis), on behalf of Chevron Environmental Management Company (CEMC) to document on-going groundwater monitoring activities throughout 2025 at the Site.

Should you have any questions or require additional information please contact Morgan Jordan with Arcadis at (281) 644-9437 or by email at douglas.jordan@arcadis.com or myself at (661) 401-0359 or by email at chrisbrand@chevron.com.

Respectfully,

Chris Brand

Encl. Lovington Paddock Remediation Site – 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

Lovington Paddock Remediation Site

Lea County, New Mexico

Incident No. nAUTOFAB000028

Case No. 1RP-272

OGRID No. 241333

April 27, 2026

2025 Annual Groundwater Monitoring Report
Lovington Paddock Remediation Site
Incident No. nAUTOFAB000028

2025 Annual Groundwater Monitoring Report

Lovington Paddock Remediation Site
Lea County, New Mexico
Incident No. nAUTOFAB000028
Case No. 1R272
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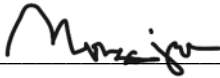
April 27, 2026

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2025 Annual Groundwater Monitoring Report
Lovington Paddock Remediation Site
Incident No. nAUTOFAB000028

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2025 Annual Groundwater Monitoring Report
Lovington Paddock Remediation Site
Incident No. nAUTOFAB000028

1 Introduction

Arcadis U.S., Inc. (Arcadis) submits this report, on behalf of Chevron Environmental Management Company (CEMC), which summarizes semi-annual groundwater monitoring activities conducted in 2025 at the Lovington Paddock remediation site (Site). Data presented in this report was collected during two semi-annual groundwater monitoring events conducted in 2025.

2 Project Summary

The Site is located on private land in Lea County, New Mexico, approximately 6.2 miles southeast of the City of Lovington in Unit P, Section 1, Township 17 South, Range 36 East in Lea County, New Mexico at coordinates: 32.858582, -103.302649.

The Site is in the Monument-Draw Watershed in Lea County, New Mexico, which is an area with very low topographic relief that has an overall gentle southward slope. The Site is on the eastern edge of an upland that breaks in slope downward into the Monument Draw valley immediately to the east. Elevations slope from approximately 3,400 feet above mean sea level (ft AMSL) to approximately 3,360 ft AMSL in the Monument Draw.

A Site Location Map is presented as **Figure 1** and a Site Detail Map is presented as **Figure 2**. Additional Site background information is included in **Appendix A**.

A Groundwater Monitoring Reduction Workplan was submitted to New Mexico Oil Conservation Division (NMOCD) in July 2020 and approved by the NMOCD on February 21, 2025. Activities at the Site have been conducted in accordance with the Workplan since its submitting, which included the following reduced scope associated with annual reporting. The first semi-annual monitoring event included sampling and gauging at all 24 existing Site monitoring wells. The second semi-annual reduced sampling event included only sampling monitoring wells BW-1 through BW-3, MW-H, MW-I, MW-O-R, MW-P, and MW-T through MW-V. Monitoring well MW-R is sampled if monitoring well MW-P is dry or contains insufficient water to sample during the reduced sampling event. Site monitoring wells with chemical of concern (COC) concentrations reported below New Mexico Environment Department 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. Additionally, in the Reduced Workplan, CEMC requested to defer total petroleum hydrocarbon (TPH) analysis for all wells sampled during the reduced second semi-annual sampling event as concentration trends have been established and there are currently no NMWQCC standards for these constituents. Activities at the Site (semi-annual groundwater monitoring) have been conducted in accordance with the Workplan since its submitting.

On February 19, 2026, the NMOCD requested Chevron to transition from semi-annual monitoring and annual reporting to submitting quarterly monitoring and sampling reports. Operators may request to reduce sampling events based upon future results.

On March 4, 2026, Arcadis sent a request to NMOCD stating Chevron would transition to quarterly monitoring and reporting in the 2nd Quarter of 2026 to give us time to get everything in place for the transition and the request was approved by the NMOCD on March 4, 2026.

Additionally, proof of operator change from Pure Resources. L.P. to Chevron Midcontinental, L.P. is included in **Appendix G**.

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3 Groundwater Monitoring

Groundwater at the Site is monitored semi-annually from a network of 24 monitoring wells including 3 former bio sparge wells (BW-1, BW-2, and BW-3). Monitoring well MW-A has not been gauged or sampled since its casing collapsed in 2008 and monitoring well MW-W was damaged in late 2020 and has not been gauged or sampled since. The monitoring well locations are shown in **Figure 2**. Arcadis performed the first semi-annual groundwater sampling event on September 2 – 4, 2025 and the second semi-annual groundwater sampling event on November 12 – 13, 2025. Field methodologies are described in **Appendix B**.

3.1 Groundwater Gauging Data

Groundwater measurements collected during September and November 2025 semi-annual monitoring events indicated:

- Groundwater elevations ranged from:
 - 3,683.82 ft AMSL (MW-R) to 3,703.75 ft AMSL (MW-S) during the September 2025 event, and
 - 3,696.12 ft AMSL (MW-R) to 3,706.07 ft AMSL (MW-S) during the November 2025 event.
- The groundwater elevations during the 2025 period appear to be consistent with historical levels, with groundwater flow to the east-southeast.
- Groundwater gauging data for the 2025 sampling events are presented in **Table 1**. Groundwater potentiometric surface maps for September and November 2025 are presented in **Figure 3**.
- The calculated gradient was 0.017 feet/foot (ft/ft) for the September 2025 gauging event and 0.012 ft/ft for the November 2025 gauging event.

A cumulative summary table of groundwater gauging data is presented in **Appendix C**.

3.2 Groundwater Analytical Results

During the September 2025 sampling event, seven monitoring wells were sampled (BW-2, MW-C-R, MW-D2, MW-O-R, and MW-R through MW-T). Seventeen monitoring wells (BW-1, BW-3, MW-B, MW-D, MW-E through MW-N, MW-P, MW-Q, MW-U, and MW-V) were not sampled due to being dry.

During the November 2025 reduced sampling event, nine monitoring wells were sampled (BW-1 through BW-3, MW-CR, MW-O-R, MW-R, and MW-T through MW-V). Additionally, thirteen monitoring wells (MW-B, MW-D, MW-E through MW-N, MW-P, and MW-Q) were dry. MW-D2 and MW-S were not scheduled to be sampled during this reduced sampling event.

Groundwater analytical results for benzene, toluene, ethylbenzene, and xylenes (BTEX) were compared to the NMWQCC Groundwater Standards. The NMWQCC has not set a standard for total petroleum hydrocarbons (TPH). A summary of the groundwater sample analytical results is presented in **Table 2**. A cumulative summary table of groundwater analytical data is presented in **Appendix D**. Benzene concentration charts are presented in **Appendix E**. Copies of the certified analytical reports and chain-of-custody documentation from Pace Analytical are provided in **Appendix F**. A Dissolved Hydrocarbons Concentration Map for the 2025 monitoring period is presented in **Figures 4**. The analytical results are further summarized below.

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3.2.1 Benzene

- Benzene concentrations during the September 2025 sampling event exceeded the NMWQCC standard of 0.005 milligrams per liter (mg/L) in:
 - 2 wells sampled (BW-2 and MW-T) at concentrations ranging from 1.29 mg/L (BW-2) to 9.78 mg/L (MW-T).
- Benzene concentrations during the November 2025 reduced sampling event exceeded the NMWQCC standard in:
 - 3 wells sampled (BW-1, BW-2, and BW-T) at concentrations ranging from 0.0426 mg/L (BW-1) to 7.26 mg/L (duplicate sample for MW-T).

3.2.2 Toluene

- Toluene concentrations did not exceed the NMWQCC standard of 1 mg/L during the 2025 monitoring period.

3.2.3 Ethylbenzene

- Ethylbenzene concentrations did not exceed the NMWQCC standard of 0.7 mg/L during the 2025 monitoring period.

3.2.4 Total Xylenes

- Total Xylenes concentrations during September 2025 sampling event exceeded the NMWQCC standard of 0.62 mg/L milligrams per liter (mg/L) in:
 - 1 well (MW-T) at a concentration of 1.07 mg/L.
- Total Xylenes concentrations during November 2025 sampling event exceeded the NMWQCC standard of 0.62 mg/L milligrams per liter (mg/L) in:
 - 1 well (MW-T) at a concentration of 0.789 B mg/L.

3.2.5 TPH

- TPH concentrations ranged from 0.110 mg/L (MW-O-R) to 29.2 mg/L (MW-T) during the September 2025 sampling event; and
- TPH analysis was not conducted during the second semi-annual sampling event conducted in November 2025, per the Reduced Sampling Workplan.

4 2026 Activities

On February 19, 2026, the NMOCD requested Chevron to transition from semi-annual monitoring and annual reporting to submitting quarterly monitoring and sampling reports. Operators may request to reduce sampling events based upon future results.

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On March 4, 2026, Arcadis sent a request to NMOCD stating Chevron would transition to quarterly monitoring and reporting in the 2nd Quarter of 2026 to give us time to get everything in place for the transition and the request was approved by the NMOCD on March 4, 2026.

- Per the NMOCD approval, the transition to quarterly groundwater monitoring and reporting for all Site wells will start in the second quarter of 2026.
- In 2026, quarterly sampling events are scheduled to be performed during the second, third, and fourth quarters.

Tables

Table 1
2025 Summary of Groundwater Gauging Data
Chevron Environmental Management Company
Lovington Paddock Remediation Site
Lea County, New Mexico



Well	TOC elev ¹	Well Diameter (inches)	Screen Interval (bgs ³)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Corrected Groundwater Elevation (ft above MSL ²)
BW-1	3816.14	4	25'-125'	9/2/2025	118.78	DRY	--
				11/12/2025	118.78	115.43	3700.71
BW-2	3816.57	4	25'-125'	9/2/2025	124.08	120.04	3696.53
				11/12/2025	124.08	115.02	3701.55
BW-3	3815.82	4	25'-125'	9/2/2025	120.53	DRY	--
				11/12/2025	120.53	116.90	3698.92
MW-B	3816.09	4	65'-105'	9/2/2025	107.47	DRY	--
				11/12/2025	107.47	DRY	--
MW-CR	3817.99	4	65'-105'	9/2/2025	128.69	121.97	3696.02
				11/12/2025	128.69	116.07	3701.92
MW-D	3816.08	4	65'-105'	9/2/2025	106.88	DRY	--
				11/12/2025	106.88	DRY	--
MW-D2	3815.93	4	62'-242'	9/2/2025	--	121.26	3694.67
				11/12/2025	--	115.33	3700.60
MW-E	3816.31	4	65'-105'	9/2/2025	107.15	DRY	--
				11/12/2025	107.15	DRY	--
MW-F	3816.69	4	65'-105'	9/2/2025	106.55	DRY	--
				11/12/2025	106.55	DRY	--
MW-G	3818.23	4	65'-105'	9/2/2025	106.53	DRY	--
				11/12/2025	106.53	DRY	--
MW-H	3816.74	4	65'-105'	9/2/2025	105.50	DRY	--
				11/12/2025	105.50	DRY	--
MW-I	3816.94	4	65'-105'	9/2/2025	108.78	DRY	--
				11/12/2025	106.68	DRY	--
MW-J	3817.66	4	65'-105'	9/2/2025	105.72	DRY	--
				11/12/2025	105.72	DRY	--
MW-L	3818.35	4	65'-105'	9/2/2025	107.18	DRY	--
				11/12/2025	107.18	DRY	--
MW-M	3817.88	4	65'-105'	9/2/2025	108.16	DRY	--
				11/12/2025	108.20	DRY	--
MW-N	3817.7	4	65'-105'	9/2/2025	108.52	DRY	--
				11/12/2025	108.52	DRY	--
MW-O-R	3815.90	4	65'-105'	9/2/2025	128.02	127.07	3688.83
				11/12/2025	128.02	118.01	3697.89
MW-P	3814.24	4	65'-105'	9/2/2025	112.91	DRY	--
				11/12/2025	113.00	DRY	--
MW-Q	3814.23	4	55'-105'	9/2/2025	108.08	DRY	--
				11/12/2025	108.08	DRY	--
MW-R	3810.89	4	65'-105'	9/2/2025	152.88	127.07	3683.82
				11/12/2025	152.88	114.77	3696.12
MW-S	3816.52	4	20'-120'	9/2/2025	122.68	112.77	3703.75
				11/12/2025	122.68	110.45	3706.07
MW-T	3816.71	4	20'-120'	9/2/2025	122.08	119.45	3697.26
				11/12/2025	122.08	114.68	3702.03
MW-U	3814.94	4	80'-120'	9/2/2025	117.57	DRY	--
				11/12/2025	117.87	115.55	3699.39
MW-V	3815.04	4	80'-120'	9/2/2025	122.80	DRY	--
				11/12/2025	122.80	116.19	3698.85

Notes:

- ¹ TOC - Top of Casing
- ² MSL - Mean Sea Level
- ³ bgs - feet below ground surface
- - Not measured or Not Applicable



Table 2
 2025 Summary of Groundwater Analytical Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 Lea County, New Mexico

Sample I.D. No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-ORO
NMWQCC Human Health Standards		0.005 mg/L	1 mg/L	0.7 mg/L	0.62 mg/L	-- mg/L	-- mg/L	-- mg/L
BW-1	9/3/2025	Dry						
	11/13/2025	0.0426	<0.000412	<0.000160	0.00963	--	--	--
BW-2	9/3/2025	1.29	0.0525	0.00653	0.0831	4.33	0.411	--
	11/13/2025	2.00	0.119	0.0130	0.0758 B	--	--	--
BW-3	9/3/2025	Dry						
	11/13/2025	<0.000190	<0.000412	<0.000160	<0.000510	--	--	--
MW-B	9/3/2025	Dry						
	11/13/2025	Dry						
MW-C-R	9/3/2025	<0.000190	<0.000412	<0.000160	<0.000510	<0.0594	<0.0605	--
	11/13/2025	0.000199 B J	<0.000412	<0.000160	<0.000510	--	--	--
MW-D	9/3/2025	Dry						
	11/13/2025	Dry						
MW-D2	9/3/2025	0.000630 B	0.000877 J	<0.000160	<0.000510	<0.0594	<0.0605	--
	11/13/2025	Not Sampled						
MW-E	9/3/2025	Dry						
	11/13/2025	Dry						
MW-F	9/3/2025	Dry						
	11/13/2025	Dry						
MW-G	9/3/2025	Dry						
	11/13/2025	Dry						
MW-H	9/3/2025	Dry						
	11/13/2025	Dry						
MW-I	9/3/2025	Dry						
	11/13/2025	Dry						
MW-J	9/3/2025	Dry						
	11/13/2025	Dry						
MW-L	9/3/2025	Dry						
	11/13/2025	Dry						
MW-M	9/3/2025	Dry						
	11/13/2025	Dry						
MW-N	9/3/2025	Dry						
	11/13/2025	Dry						
MW-O-R	9/4/2025	<0.000190	<0.000412	<0.000160	<0.000510	<0.0594	0.110	--
	11/13/2025	<0.000190	<0.000412	<0.000160	<0.000510	--	--	--
MW-P	9/3/2025	Dry						
	11/13/2025	Dry						
MW-Q	9/3/2025	Dry						
	11/13/2025	Dry						
MW-R	9/4/2025	<0.000190	<0.000412	<0.000160	<0.000510	<0.0594	<0.0605	--
	11/13/2025	<0.000190	<0.000412	<0.000160	<0.000510	--	--	--



Table 2
 2025 Summary of Groundwater Analytical Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 Lea County, New Mexico

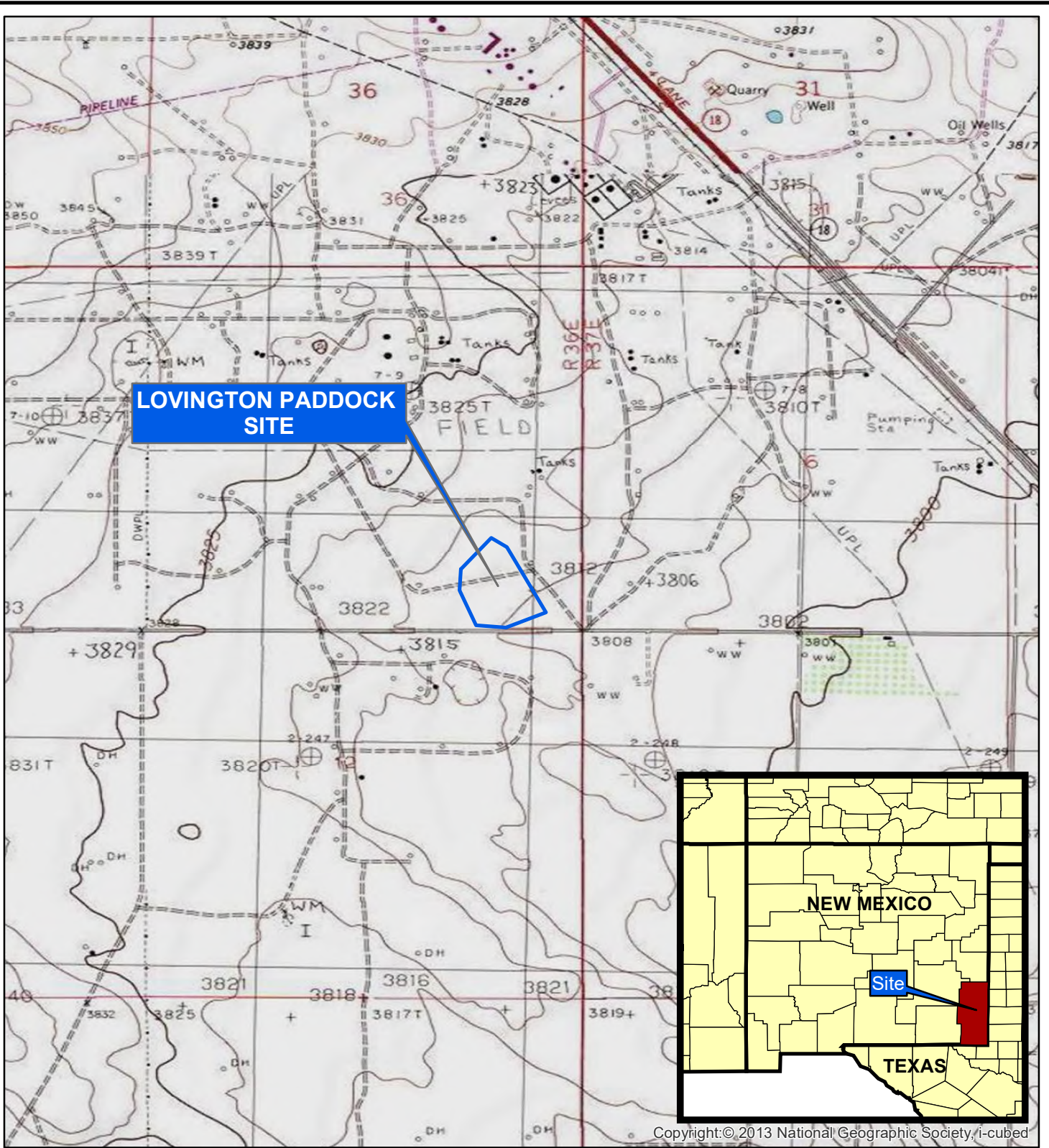
Sample I.D. No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	TPH-ORO
NMWQCC Human Health Standards		0.005 mg/L	1 mg/L	0.7 mg/L	0.62 mg/L	-- mg/L	-- mg/L	-- mg/L
MW-S	9/4/2025	<0.000190	<0.000412	<0.000160	<0.000510	<0.0594	<0.0605	--
	11/13/2025	Not Sampled						
MW-T	9/3/2025	9.78	0.0626	0.447	1.07	28.9	0.254	--
DUP-1	9/3/2025	9.52	0.0649	0.433	1.04	28.3	0.243	--
MW-T	11/13/2025	7.13	0.347	0.298	0.780 B	--	--	--
DUP-1	11/13/2025	7.26	0.318	0.288	0.789 B	--	--	--
MW-U	9/3/2025	Dry						
	11/13/2025	<0.000190	<0.000412	<0.000160	<0.000510	--	--	--
MW-V	9/3/2025	Dry						
	11/13/2025	<0.000190	<0.000412	<0.000160	<0.000510	--	--	--

Notes:

- 1) RCRA Metals Analysis by Environment Protections Agency (EPA) Methods 6010B and 7470A.
 - 2) Groundwater Quality by EPA Methods 160.1, 300.0, and 310.1.
 - 3) **Bold** and *Italicized* values indicate concentrations above NMWQCC Other Standards for Domestic Water Supply.
 - 4) < = Indicates the analyte was not detected at or above the Method Detection Limit (MDL).
 - 5) ¹ NMWQCC Other Standards for Domestic Water Supply Per NMAC 20.6.2.3103B.
 - 6) '--' = Not Analysed or Not Applicable
 - 7) mg/L = milligrams per liter
 - 8) DUP = Duplicate sample
 - 9) NMWQCC = New Mexico Water Quality Control Commission
 - 10) RL = Reporting Limit
 - 11) J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 - 12) B = The same analyte is found in the associated blank.
- Not Sampled = 2nd semi-annual reduced event

Figures

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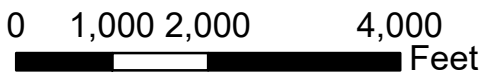
Copyright: © 2013 National Geographic Society, i-cubed

Legend

 Site Boundary

Notes:

- 1. Datum: D_WGS_1984
- 2. Source: United States Geological Survey 7.5 Minute Quadrangle Map
- 3. Site Location: 32.858957, -103.302786



Chevron Environmental Management Company
Lovington Paddock Site
Lea County, New Mexico

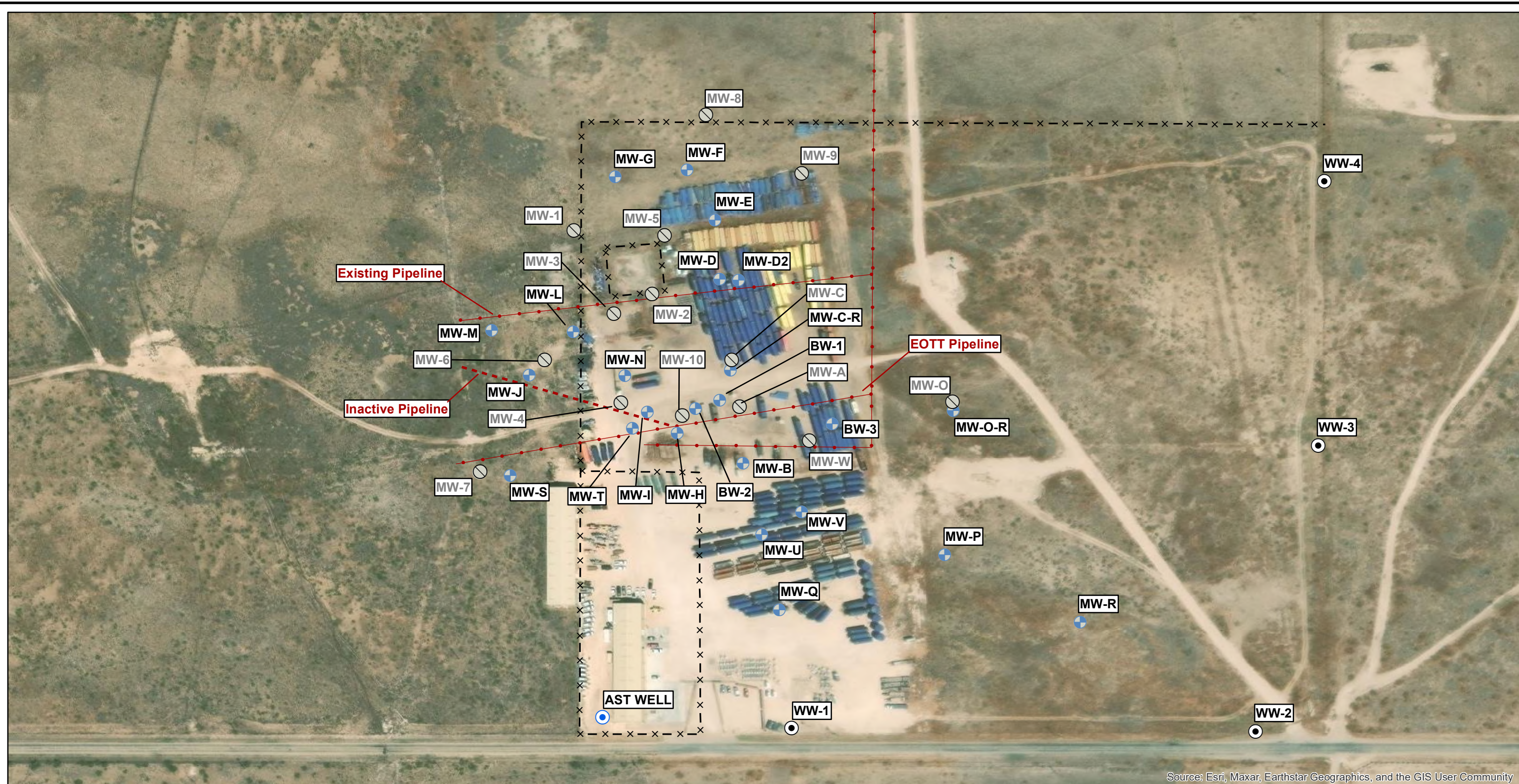
SITE LOCATION MAP



FIGURE

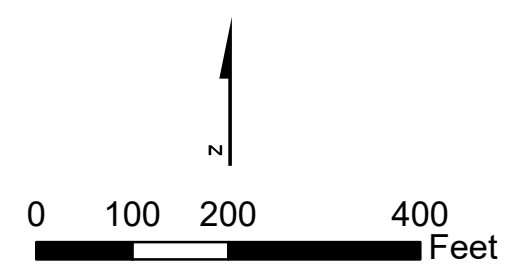
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Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

- Legend**
- Monitoring Well Location
 - Goff Dairy Well Location
 - Water Supply Well (AST Well)
 - ⊗ Plugged & Abandoned Well Location
 - Pipeline
 - - - Abandoned Pipeline
 - × - × Fence Line



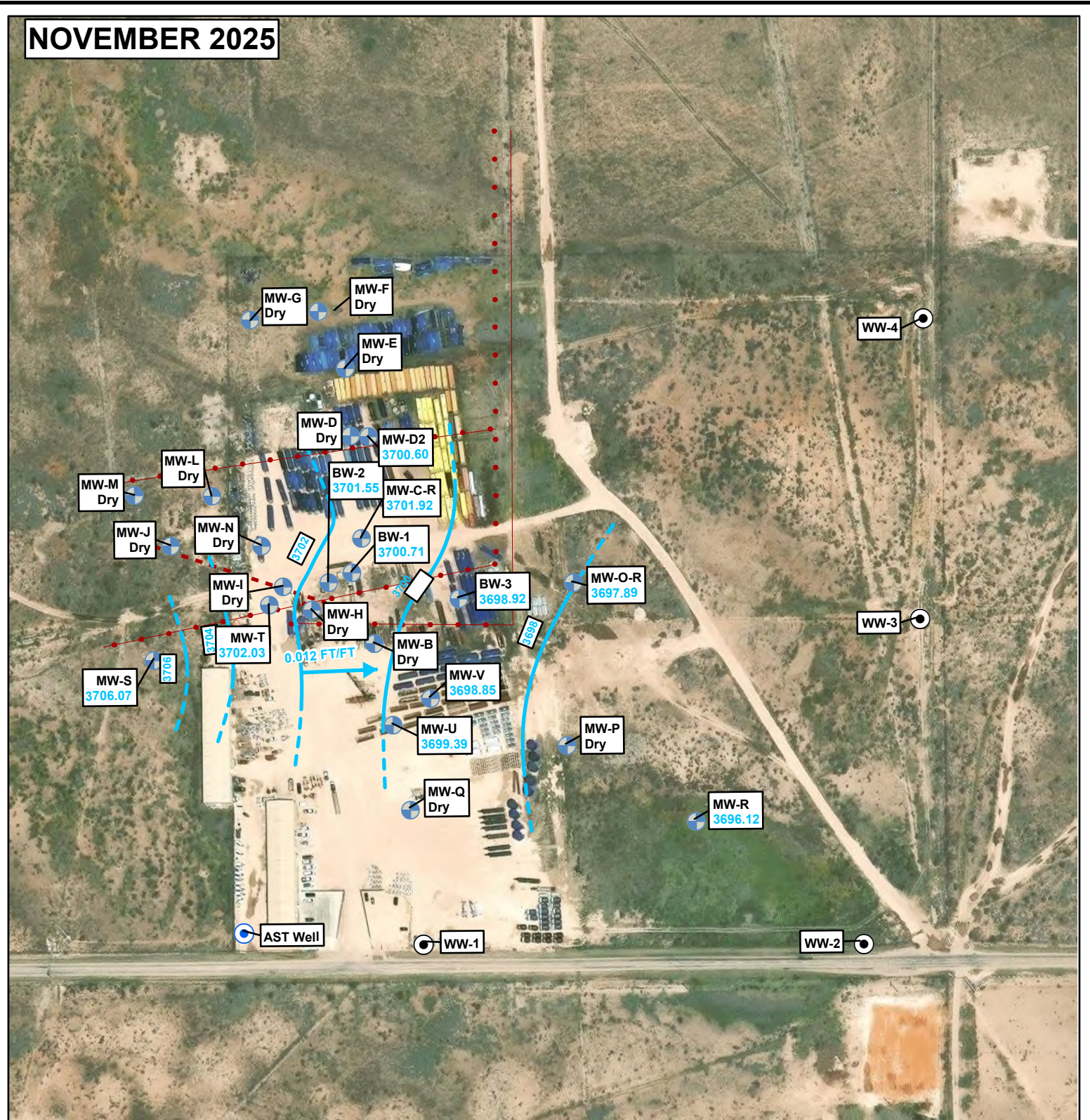
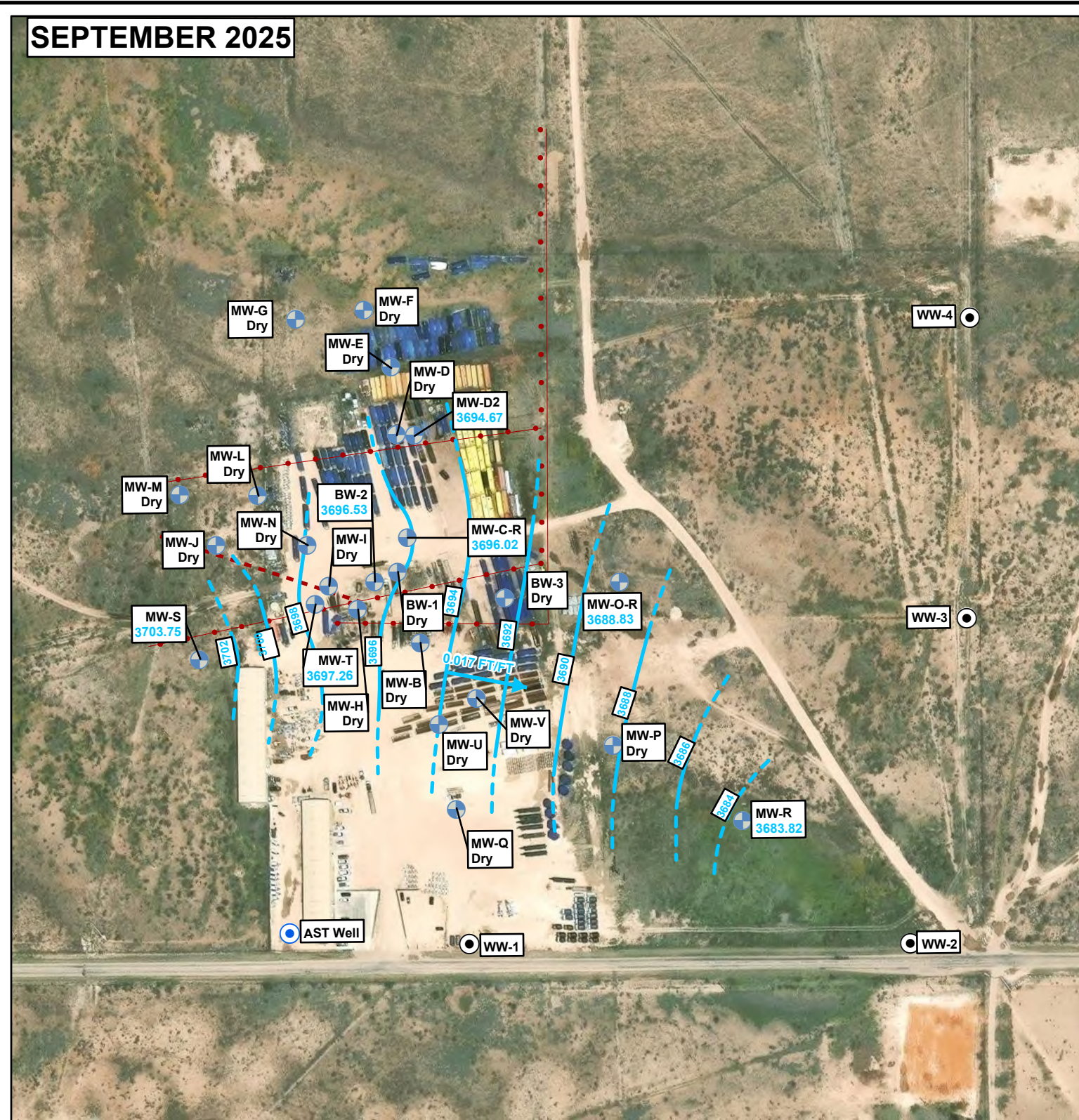
Note:
 1. Datum: D_WGS_1984
 2. Site Location: 32.858957, -103.302786

Chevron Environmental Management Company
 Lovington Paddock Site
 Lea County, New Mexico

SITE DETAILS MAP

ARCADIS | FIGURE 2

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Legend

- ⊕ Monitoring Well Location
- ⊙ Goff Dairy Well Location
- ⊕ Water Supply Well (AST Well)
- Potentiometric Contour and Elevation
- - - Inferred Potentiometric Contour
- 3706.07 Groundwater Elevation (ft above mean sea level)
- Approximate Groundwater Flow Direction
- Pipeline
- - - Abandoned Pipeline
- 0.017 FT/FT Approximate Hydraulic Gradient (FEET/FOOT)



- Notes:
- Waterford Supply and Recovery Wells were Not Sampled.
 - Datum: D_WGS_1984
 - Groundwater Gradient - September = 0.017 ft/ft & November = 0.012 ft/ft
 - Site Location: 32.858957, -103.302786
 - DRY = Well is Dry

Chevron Environmental Management Company
Lovington Paddock Site
Lea County, New Mexico

SEMI-ANNUAL POTENTIOMETRIC SURFACE MAP 2025

ARCADIS | FIGURE 3

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BW-2		
Date	9/3/2025	11/13/2025
Analyte	Result	Result
Benzene	1.29	2.00
Toluene	0.0525	0.119
Ethylbenzene	0.00653	0.0130
Total Xylenes	0.0831	0.0758 B
TPH-GRO	4.33	--
TPH-DRO	0.411	--

MW-D2	
Date	9/3/2025
Analyte	Result
Benzene	0.000630 B
Toluene	0.000877 J
Ethylbenzene	<0.000160
Total Xylenes	<0.000510
TPH-GRO	<0.0594
TPH-DRO	<0.0605

MW-C-R		
Date	9/3/2025	11/13/2025
Analyte	Result	Result
Benzene	<0.000190	0.000199 B J
Toluene	<0.000412	<0.000412
Ethylbenzene	<0.000160	<0.000160
Total Xylenes	<0.000510	<0.000510
TPH-GRO	<0.0594	--
TPH-DRO	<0.0605	--

BW-1	
Date	11/13/2025
Analyte	Result
Benzene	0.0426
Toluene	<0.000412
Ethylbenzene	<0.000160
Total Xylenes	0.00963
TPH-GRO	--
TPH-DRO	--

MW-O-R		
Date	9/4/2025	11/13/2025
Analyte	Result	Result
Benzene	<0.000190	<0.000190
Toluene	<0.000412	<0.000412
Ethylbenzene	<0.000160	<0.000160
Total Xylenes	<0.000510	<0.000510
TPH-GRO	<0.0594	--
TPH-DRO	0.110	--

MW-T				
Date	9/3/2025	9/3/2025	11/13/2025	11/13/2025
Analyte	Result	DUP	Result	DUP
Benzene	9.78	9.52	7.13	7.26
Toluene	0.0626	0.0649	0.347	0.318
Ethylbenzene	0.447	0.433	0.298	0.288
Total Xylenes	1.07	1.04	0.780 B	0.789 B
TPH-GRO	28.9	28.3	--	--
TPH-DRO	0.254	0.243	--	--

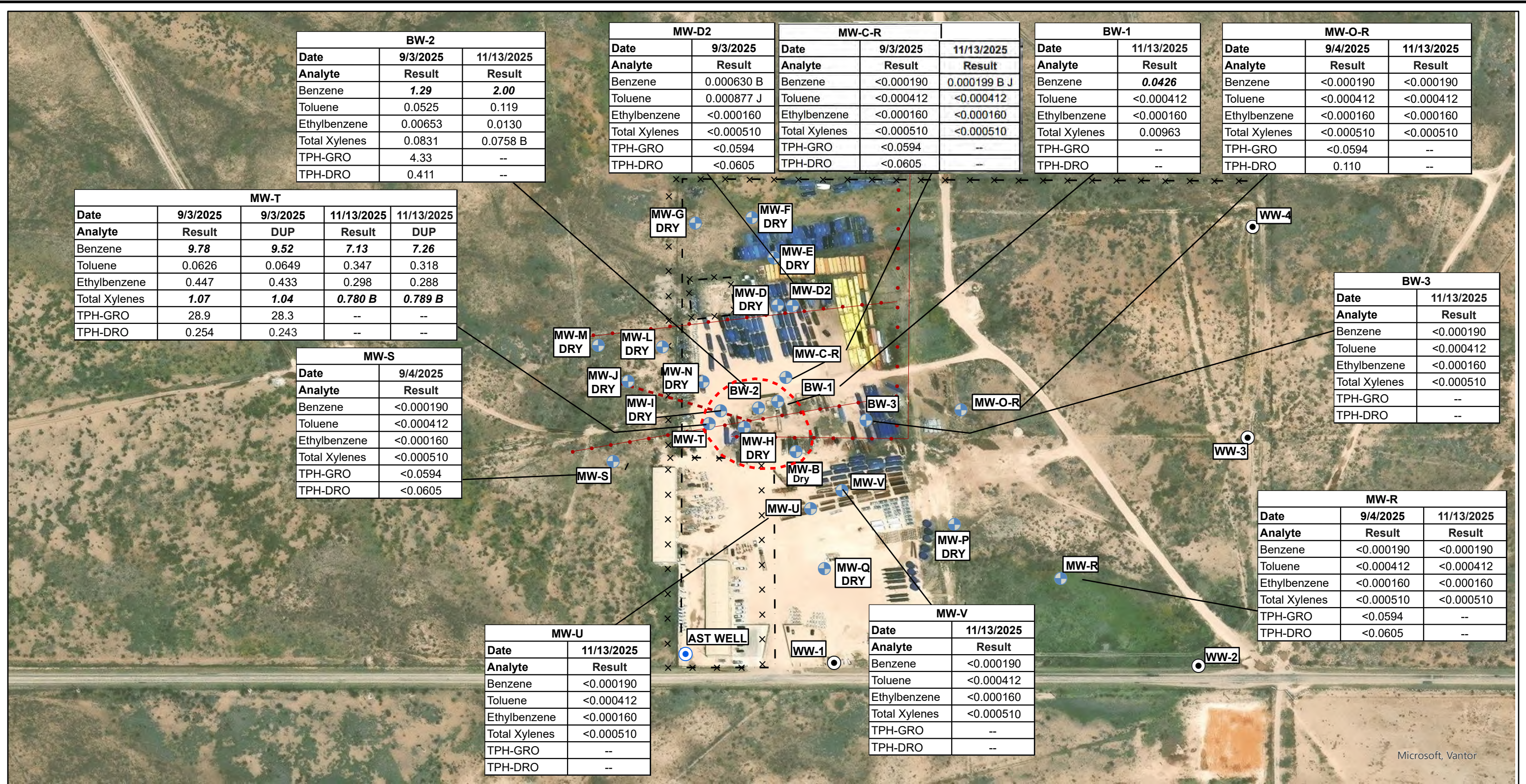
MW-S	
Date	9/4/2025
Analyte	Result
Benzene	<0.000190
Toluene	<0.000412
Ethylbenzene	<0.000160
Total Xylenes	<0.000510
TPH-GRO	<0.0594
TPH-DRO	<0.0605

MW-U	
Date	11/13/2025
Analyte	Result
Benzene	<0.000190
Toluene	<0.000412
Ethylbenzene	<0.000160
Total Xylenes	<0.000510
TPH-GRO	--
TPH-DRO	--

MW-V	
Date	11/13/2025
Analyte	Result
Benzene	<0.000190
Toluene	<0.000412
Ethylbenzene	<0.000160
Total Xylenes	<0.000510
TPH-GRO	--
TPH-DRO	--

BW-3	
Date	11/13/2025
Analyte	Result
Benzene	<0.000190
Toluene	<0.000412
Ethylbenzene	<0.000160
Total Xylenes	<0.000510
TPH-GRO	--
TPH-DRO	--

MW-R		
Date	9/4/2025	11/13/2025
Analyte	Result	Result
Benzene	<0.000190	<0.000190
Toluene	<0.000412	<0.000412
Ethylbenzene	<0.000160	<0.000160
Total Xylenes	<0.000510	<0.000510
TPH-GRO	<0.0594	--
TPH-DRO	<0.0605	--



Legend

- Monitoring Well Location
- Goff Dairy Well Location
- Water Supply Well (AST Well)
- Plugged & Abandoned Well Location
- Pipeline
- Abandoned Pipeline
- Fence Line
- Extent of Benzene Exceedance (Inferred)
- NMWQCC New Mexico Water Quality Control Commission
- DRY Well is Dry

Analyte	NMWQCC Standard for Groundwater (mg/L)
Benzene	0.01
Toluene	0.75
Ethylbenzene	1
Total Xylenes	0.62
TPH-GRO	No Standard
TPH-DRO	No Standard

- Notes:
- Water Supply Well and Goff Dairy Wells were not sampled.
 - Datum: D_WGS 1984
 - Site Location: 32.858957, -103.302786
 - J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 - B = The same analyte is found in the associated blank.
 - DUP = Duplicate Sample
 - Bold** and *Italicized* values indicate concentrations above NMWQCC other standards for domestic water supply.
 - TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics
 - TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

10. '<' = Indicates the analyte was not detected at or above the Method Detection Limit (MDL).
 11. -- = Not Analysed

Chevron Environmental Management Company
 Lovington Paddock Site
 Lea County, New Mexico

**DISSOLVED HYDROCARBON CONCENTRATIONS MAP
 SEPTEMBER & NOVEMBER 2025**

FIGURE 4

Appendix A

Site Background



SITE BACKGROUND

The Site is located within the Lovington Paddock Unit, an active oil production field located in Lea County, New Mexico and approximately 6.2 miles southeast of the City of Lovington. The Site is located in the south ½ of the southeast ¼ of Section 1, Township 17 South, Range 36 East in Lea County, New Mexico. The Site vicinity is presented on Figure 1, and Site details are shown on Figure 2.

There are two currently active pipelines on the Site, as well as multiple inactive pipelines. The Site is currently monitored with a network of 25 monitoring wells. The City of Lovington sold the 40-acre tract on which the Site resides to Buster Goff in March 2001. At that time, AST West began leasing the Site for use in the distribution of soaps and detergents. Mr. Goff then sold the Site to Lea County Electric Cooperative (LCEC) in October 2001. Mico Oilfield Services (Mico) of Hobbs, New Mexico, a supplier of frac tanks to the oil and gas business, began leasing the former AST building and southwestern portion of the Site in 2012. The LCEC sold the property to Divine Ventures, LLC in March 2015.

Historical Investigation

Previous investigations conducted from 1998 to 2007 to identify the source and extent of groundwater impacts related to a former pit and possible historical pipeline leak indicated two separate plumes. These field activities included excavation of sludge from the former pit, the advancement of 11 soil borings (BH-1 through BH-11), installation of 33 monitoring wells (MW-1 through MW-10, MW-A through MW-J, MW-L through MW-W, and MW-D2) and installation of three bio-spargers (BW-1 through BW-3). In March 2000, light non-aqueous phase liquid (LNAPL) was observed in MW-4 and MW-10. In March 2001, and on behalf of EOTT Energy, LLC (EOTT), 300 feet (ft) of pipeline in the vicinity of the impacts were uncovered and inspected by Environmental Plus, Inc. (EPI). Based on EPI's observations, no previous repairs or replacement pipeline were evident.

AST West installed a water supply well (AST well) at the southwestern portion of the Site in 2001. Also in 2001, Goff Dairy (Goff) installed four irrigation wells (WW-1, WW-2, WW-3, and WW-4) adjacent to the eastern and southern boundaries of the Site. Each Goff well was designed to pump approximately 600 to 800 gallons per minute (gpm) and pumping from these irrigation wells resulted in groundwater levels in monitoring wells at the Site being lowered by several feet. As a result, the groundwater gradient direction shifted from northeast to southeast, and monitoring wells MW-1 to MW-10 became dry in 2002. LNAPL has not been observed at the Site since these wells became dry.

From 2003 through 2005, Arcadis installed 17 groundwater monitoring wells (MW-A to MW-J, and MW-L to MW-R), one well (MW-D2) to investigate potential impact by chloride, and three biosparger remediation wells (BW-1 through BW-3). Wells MW-A through J were installed to replace MW-1 to MW-10 that became dry due to pumping of the recently installed Goff and AST wells. Wells MW-L through MW-R were also installed to deeper depths to accommodate the lower water levels. Former wells MW-1 through MW-9 were plugged and abandoned.

The collective investigations resulted in the identification of two separate dissolved-phase petroleum hydrocarbon plumes in groundwater. No evidence of chloride impact was found in MW-D2.

One plume (east plume) was found below and surrounding an abandoned pit, while another plume (west plume) was observed near the EOTT pipeline. The west plume is located upgradient of the east plume.

After conducting a 180-day study of the expanded bio sparge system, Arcadis concluded in a March 2006 report that the bio sparge system had prevented further downgradient movement of the plumes. SECOR continued operation of the bio sparge system after acquiring the project from Arcadis and installed five additional monitoring wells (MW-S through MW-W) in 2006 and 2007. Well MW-T was converted to a bio sparge well after failure of BW-2, and MW-U, MW-V and MW-W were installed to better evaluate the bio sparge system. Based on results through 2007, the greatest impact to groundwater was in wells MW-H and MW-T located near the intersection of the EOTT pipeline and an inactive pipeline.

Based on data collected in 2006 and 2008, Stantec (formerly SECOR) defined the following stratigraphic profile in the Comprehensive Soil Investigation Report dated March 2010.

- A caliche interval extending from near ground surface to approximately 10 to 25 feet below ground surface (ft bgs),
- An underlying fine-grained sand interval extending to approximately 75 to 95 ft bgs, and including a relatively thin (2-ft thickness) sandstone layer between 35 and 50 ft bgs,
- A medium-grained sand interval extending from the base of the fine-grained sand interval to at least 120 ft bgs.

The results of the soil investigation indicated the source of total petroleum hydrocarbons (TPH) in the west plume appeared to be in the vicinity of wells MW-H and MW-T, and near the intersection of the EOTT pipeline and an inactive pipeline. The vertical distribution of chemical concentrations indicated TPH concentrations increased with depth and spread to the maximum lateral extent at 60 to 70 ft bgs where the highest TPH concentrations were located. The magnitude and lateral extent of TPH concentrations rapidly decreased below 70 ft bgs.

The maximum concentrations and lateral extent at 70 ft bgs, and rapidly decreasing concentrations below that depth, are believed to be an artifact of a historical (higher) groundwater elevation at the time of the release. After the AST West and Goff wells were installed in 2001, groundwater levels (measured relative to ground surface in nearby MW-H) declined from 80.18 ft bgs in 2003, to 95.20 ft bgs in 2009, to 99.55 ft bgs in March 2017, a net decline of nearly 20 feet over 12 years. Therefore, it is believed possible that groundwater levels at some time prior to 2001 could have been within the range of 60 to 70 ft bgs, and that the release occurred during that time.

As a result of falling water levels, LNAPL historically observed at the Site (i.e., MW-4 and MW-10) is thought to be retained in soil pores at or near residual (immobile) saturations.

GHD (previous consultant) Investigation

GHD (formerly Conestoga-Rovers & Associates) began providing environmental consulting services at the Site in November 2010. Groundwater monitoring was conducted on a semiannual schedule with annual reporting. The biosparge system has not operated since 2011 when wildfires damaged some of the system's surface equipment, but its effectiveness had diminished prior to that time.

As noted above, the groundwater flow direction at the Site has changed over time due to intermittent pumping from the Goff irrigation wells. Prior to installation of the Goff wells, the groundwater flow direction remained

consistently toward the northeast. Since the Goff wells began pumping in 2001, the groundwater flow direction gradually shifted from northeast to southeast. Continued pumping of the Goff wells through 2012 and 2013 lowered the water table and caused numerous monitoring wells to be dry during monitoring events. Information obtained from the New Mexico Office of State Engineer (NMOSE) website in 2014 indicated that Goff changed their permitted groundwater usage locations (i.e., points of diversion, a.k.a. "PODs") from wells located to the east (WW-3 and WW-4) to wells located further south (WW-1 and WW-2).

A soil vapor extraction (SVE) pilot test was conducted in August 2013 using five wells located in the west plume. Well MW-H, which was dry at the time, was selected as the extraction well due to high TPH levels in influent vapors. Vacuum communication was established in all observation wells (MW-T, MW-10, BW-2 and MW-I) during the six-hour test period. The observation wells were located at distances ranging from 47 feet (MW-T) to 88 feet (MW-I) from the extraction well (MW-H). The test results indicated that SVE would be an effective remediation method for residual hydrocarbons in soil if the induced vacuum remains below a specified limit and groundwater depths remain at low levels.

In April 2015, GHD conducted a Fit-for-Service evaluation on the former biosparge air compressors and associated air receivers. The evaluation revealed the equipment could potentially be functional after appropriate repairs (i.e., replacement of oil, belts, pressure safety valve, etc.). However, preliminary cost comparisons indicated new compressors would be less expensive than repairing the existing ones. The remnants of the biosparge system were removed in 2018.

Recovering water levels caused fewer wells to be dry in October 2015 relative to the prior year (October 2014) event, and no wells were dry during the following event of March 2016. However, declining water levels resumed in the subsequent months leading up to the October 2016 monitoring event, resulting in water levels falling an average of 8.45 feet and causing 11 wells to be dry or with insufficient water for sampling. The falling water levels were apparently due to resumed pumping of the Goff irrigation wells.

Arcadis began providing environmental consulting services at the site in 2019.

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, and total xylenes (BTEX) are listed below.

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

Note: mg/L = milligrams per liter

MONITORING WELL ABANDONMENT

Monitoring wells MW-C and MW-O, which were frequently dry beginning in 2011, were plugged and abandoned on July 19, 2017. These wells were previously replaced by deeper wells MW-C-R and MW-O-R in June 2016.

Appendix B

Field Methodology



FIELD METHODOLOGY

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 submitted by Arcadis under chain-of-custody (COC) protocol to Pace Analytical for analysis of dissolved BTEX by EPA Method 8021B, and TPH in the gasoline range (GRO) and diesel range (DRO) by EPA Method 8015B.

Appendix C

Cumulative Summary of Groundwater Gauging Data

Appendix C
 Cumulative Potentiometric Elevation Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 South 1/4 of the southeast 1/4 of Section 1, Township 17 South, Range 36 East
 Lea County, New Mexico



Well	TOC elev ¹	Well Diameter (inches)	Screen Interval (bgs ²)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Corrected Groundwater Elevation (ft above MSL ³)	Depth to LNAPL (ft below TOC)	Thickness of LNAPL (ft)				
BW-1	3816.14	4	25'-125'	6/16/2005	--	86.75	3729.39	--	--				
				7/27/2005	--	92.32	3723.82	--	--				
				9/21/2005	--	90.41	3725.73	--	--				
				12/9/2005	--	88.38	3727.76	--	--				
				5/9/2007	--	--	NM	--	--	--	--		
				6/13/2008	--	94.25	3721.89	--	--				
				9/17/2008	--	97.51	3718.63	--	--				
				1/26/2009	--	91.08	3725.06	--	--				
				7/9/2009	--	98.63	3717.31	--	--				
				1/25/2010	--	95.08	3721.06	--	--				
				7/6/2010	--	100.81	3715.33	--	--				
				1/25/2011	--	98.03	3718.11	--	--				
				7/11/2011	--	107.50	3708.64	--	--				
				10/15/2012	--	110.31	3705.83	--	--				
				1/21/2013	--	102.92	3713.22	--	--				
				7/22/2013	--	109.41	3706.73	--	--				
				3/4/2014	--	100.75	3715.39	--	--				
				10/15/2014	--	109.21	3706.93	--	--				
				3/20/2015	--	99.83	3716.31	--	--				
				10/12/2015	--	106.81	3709.33	--	--				
				3/14/2016	--	101.45	3714.69	--	--				
				10/3/2016	--	110.06	3708.08	--	--				
				3/13/2017	--	103.06	3711.14	--	--				
				9/11/2017	--	114.04	3702.10	--	--				
				3/12/2018	--	105.72	3710.42	--	--				
				9/10/2018	--	117.34	3698.80	--	--				
				1/17/2019	--	107.45	3708.69	--	--				
				11/20/2019	126.40	113.78	3702.36	--	--				
				4/13/2020	119.00	107.20	3708.94	--	--				
				11/10/2020	118.91	115.48	3700.68	--	--				
				8/11/2021	118.89	112.88	3703.26	--	--				
				12/2/2021	118.83	114.42	3701.72	--	--				
				6/14/2022	118.87	115.94	3700.20	--	--				
				11/16/2022	118.83	116.54	3699.60	--	--				
				7/28/2023	118.93	116.72	3699.42	--	--				
				11/8/2023	118.77	--	--	--	--				
				9/2/2025	118.78	DRY	--	--	--				
				11/12/2025	118.78	115.43	3700.71	--	--				
				BW-2	3816.57	4	25'-125'	6/16/2005	--	86.38	3730.19	--	--
								7/27/2005	--	90.70	3725.87	--	--
9/21/2005	--	89.99	3726.58					--	--				
12/9/2005	--	88.21	3728.36					--	--				
5/9/2007	--	--	NM					--	--	--	--		
6/13/2008	--	95.16	3721.41					--	--				
9/17/2008	--	98.92	3719.65					--	--				
1/26/2009	--	91.13	3725.44					--	--				
7/9/2009	--	98.47	3718.10					--	--				
7/6/2010	--	100.10	3716.47					--	--				
1/27/2011	--	97.76	3718.81					--	--				
7/11/2011	--	107.91	3708.66					--	--				
10/15/2012	--	109.20	3707.37					--	--				
1/21/2013	--	102.53	3714.04					--	--				
7/22/2013	--	108.42	3708.15					--	--				
3/4/2014	--	100.51	3716.06					--	--				
10/15/2014	--	108.39	3708.18					--	--				
3/16/2015	--	99.65	3716.92					--	--				
10/12/2015	--	106.23	3710.34					--	--				
3/14/2016	--	101.13	3715.44					--	--				
10/3/2016	--	109.72	3706.85					--	--				
3/13/2017	--	102.65	3713.92					--	--				
9/11/2017	--	112.91	3703.66					--	--				
3/12/2018	--	105.72	3710.85					--	--				
9/10/2018	--	116.12	3700.45					--	--				
1/17/2019	--	107.08	3709.49					--	--				
11/20/2019	127.91	113.02	3703.55					--	--				
4/13/2020	122.30	108.77	3708.80					--	--				
11/11/2020	123.16	114.59	3701.98					--	--				
8/11/2021	122.32	111.96	3704.61					--	--				
12/2/2021	122.25	114.53	3702.04					--	--				
6/14/2022	122.36	115.18	3701.39					--	--				
11/16/2022	122.24	115.69	3700.88					--	--				
7/28/2023	122.36	116.01	3700.56					--	--				
11/8/2023	124.08	119.88	3699.69					--	--				
9/2/2025	124.08	120.04	3698.53					--	--				
11/12/2025	124.08	115.02	3701.55					--	--				

Appendix C
 Cumulative Potentiometric Elevation Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 South 1/4 of the southeast 1/4 of Section 1, Township 17 South, Range 36 East
 Lea County, New Mexico



Well	TOC elev ¹	Well Diameter (inches)	Screen Interval (bgs ²)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Corrected Groundwater Elevation (ft above MSL ³)	Depth to LNAPL (ft below TOC)	Thickness of LNAPL (ft)
BW-3	3815.82	4	25'-125'	6/16/2005	123.09	87.39	3728.43	--	--
				7/27/2005	--	92.72	3723.10	--	--
				9/22/2005	--	91.07	3724.75	--	--
				12/9/2005	--	88.46	3727.36	--	--
				5/9/2007	--	--	--	--	--
				9/17/2008	--	98.57	3717.25	--	--
				1/26/2009	--	92.44	3723.38	--	--
				7/9/2009	--	100.44	3715.38	--	--
				7/6/2010	--	101.96	3713.86	--	--
				1/25/2011	--	--	NM	--	--
				7/11/2011	--	108.64	3707.18	--	--
				10/15/2012	--	111.87	3703.95	--	--
				1/21/2013	--	103.38	3712.44	--	--
				7/22/2013	--	110.71	3705.11	--	--
				3/4/2014	--	101.10	3714.72	--	--
				10/15/2014	--	110.22	3705.60	--	--
				3/16/2015	--	100.18	3715.64	--	--
				10/12/2015	--	102.88	3712.94	--	--
				3/14/2016	--	102.10	3713.72	--	--
				10/3/2016	--	112.00	3703.82	--	--
				3/13/2017	--	103.60	3712.22	--	--
				9/11/2017	--	115.30	3698.92	--	--
				3/2/2018	--	106.43	3703.94	--	--
				9/10/2018	--	119.40	3698.42	--	--
				1/17/2019	--	107.97	3707.85	--	--
				11/20/2019	120.22	Dry	--	--	--
				4/13/2020	120.60	107.78	3708.04	--	--
				11/11/2020	120.61	116.95	3698.87	--	--
				8/11/2021	120.55	113.79	3702.03	--	--
				12/2/2021	119.21	116.78	3699.04	--	--
				6/14/2022	120.52	117.46	3698.36	--	--
				11/16/2022	120.43	117.76	3698.06	--	--
				7/28/2023	120.56	117.95	3697.87	--	--
11/8/2023	120.43	Dry	--	--	--				
9/2/2025	120.53	Dry	--	--	--				
11/12/2025	120.53	116.9	3698.92	--	--				
MW-A	3816.04	4	65'-105'	6/16/2005	100.51	86.75	3728.29	--	--
				7/25/2005	--	--	--	--	--
				9/19/2005	--	90.41	3725.63	--	--
				12/5/2005	--	88.38	3727.66	--	--
				5/9/2007	--	--	NM	--	--
				7/1/2008	--	--	Well destroyed	--	--
				6/16/2005	108.11	87.15	3728.94	--	--
				7/25/2005	--	92.55	3723.54	--	--
				9/19/2005	--	90.82	3725.27	--	--
				12/5/2005	--	88.73	3727.36	--	--
MW-B	3816.09	4	65'-105'	5/9/2007	--	91.78	3724.31	--	--
				10/2/2007	--	92.94	3723.15	--	--
				6/13/2008	--	95.05	3721.04	--	--
				9/15/2008	--	98.39	3717.70	--	--
				1/28/2009	--	91.36	3724.73	--	--
				7/9/2009	--	99.76	3716.33	--	--
				1/25/2010	107.65	95.21	3720.88	--	--
				7/6/2010	--	101.50	3714.59	--	--
				1/27/2011	--	98.36	3717.73	--	--
				7/11/2011	--	--	NM	--	--
				10/15/2012	--	--	NM	--	--
				1/21/2013	--	103.00	3713.09	--	--
				7/22/2013	--	--	NM	--	--
				3/4/2014	--	100.78	3715.31	--	--
				10/15/2014	--	--	NM	--	--
				3/16/2015	--	100.02	3716.07	--	--
				10/12/2015	--	107.35	3708.74	--	--
				3/14/2016	--	101.95	3714.14	--	--
				10/3/2016	--	--	NM	--	--
				3/13/2017	--	103.20	3712.89	--	--
				9/11/2017	--	114.04	3702.05	--	--
				3/12/2018	--	105.75	3710.34	--	--
				9/10/2018	--	--	NM	--	--
				1/17/2019	--	--	NM	--	--
				11/20/2019	110.92	Dry	--	--	--
				4/13/2020	107.50	107.34	3708.75	--	--
				11/9/2020	--	Dry	--	--	--
				8/11/2021	107.49	Dry	--	--	--
				12/2/2021	107.41	Dry	--	--	--
				6/14/2022	107.45	Dry	--	--	--
				11/16/2022	107.41	Dry	--	--	--
				7/28/2023	107.48	Dry	--	--	--
				11/8/2023	107.47	Dry	--	--	--
9/2/2025	107.47	DRY	--	--	--				
11/12/2025	107.47	DRY	--	--	--				

Appendix C
 Cumulative Potentiometric Elevation Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 South 1/2 of the southeast 1/4 of Section 1, Township 17 South, Range 36 East
 Lea County, New Mexico



Well	TOC elev ¹	Well Diameter (inches)	Screen Interval (bgs ²)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Corrected Groundwater Elevation (ft above MSL ³)	Depth to LNAPL (ft below TOC)	Thickness of LNAPL (ft)				
MW-C	3817.04	4	65'-105'	6/15/2005	108.05	87.83	3729.21	--	--				
				7/25/2005	--	92.53	3724.51	--	--				
				9/19/2005	--	91.54	3725.50	--	--				
				12/5/2005	--	89.50	3727.54	--	--				
				5/9/2007	--	92.56	3724.48	--	--				
				10/2/2007	--	93.66	3723.38	--	--				
				6/13/2008	--	95.21	3721.83	--	--				
				9/15/2008	--	98.75	3718.29	--	--				
				1/28/2009	--	92.10	3724.94	--	--				
				7/9/2009	--	99.78	3717.26	--	--				
				1/25/2010	106.35	96.09	3720.95	--	--				
				7/6/2010	--	101.78	3715.26	--	--				
				1/27/2011	--	98.92	3718.12	--	--				
				7/11/2011			NM						
				10/15/2012			NM						
				1/21/2013	--	103.93	3713.11	--	--				
				7/22/2013			NM						
				3/4/2014	--	101.92	3715.12	--	--				
				10/15/2014			NM						
				3/16/2015	--	100.85	3716.19	--	--				
				10/12/2015			NM						
				3/14/2016	--	102.46	3714.58	--	--				
				10/3/2016			Plugged and Abandon						
				MW-CR	3817.99	4	65'-105'	10/3/2016	--	111.13	3706.86	--	--
								3/13/2017	--	103.80	3714.19	--	--
								9/11/2017	--	114.65	3703.34	--	--
3/12/2018	--	106.55	3711.44					--	--				
9/10/2018	--	118.01	3699.98					--	--				
1/17/2019		108.17	3709.82					--	--				
1/12/2019	136.40	114.44	3703.55					--	--				
4/13/2020	128.30	108.00	3709.99					--	--				
8/11/2021	128.82	114.18	3703.81					--	--				
12/2/2021	128.79	116.19	3701.80					--	--				
6/14/2022	128.41	116.50	3701.49					--	--				
11/16/2022	128.72	117.48	3700.51					--	--				
7/28/2023	128.84	117.37	3700.62					--	--				
11/8/2023	128.69	121.73	3696.26					--	--				
9/2/2025	128.69	121.97	3696.02					--	--				
11/12/2025	128.69	116.07	3701.92					--	--				
MW-D	3816.08	4	65'-105'	3/2/2005	107.92	82.68	3733.40	--	--				
				9/19/2005	--	90.48	3725.60	--	--				
				12/5/2005	--	88.44	3727.64	--	--				
				5/9/2007	--	91.49	3724.59	--	--				
				9/27/2007	--	92.62	3723.48	--	--				
				6/13/2008	--	94.43	3721.85	--	--				
				9/15/2008	--	97.49	3718.59	--	--				
				1/26/2009	--	91.08	3725.00	--	--				
				7/9/2009	--	98.82	3717.26	--	--				
				1/25/2010	106.90	95.40	3720.68	--	--				
				7/6/2010	--	100.57	3715.51	--	--				
				1/25/2011	--	97.68	3718.40	--	--				
				7/11/2011			NM						
				10/15/2012			NM						
				1/21/2013	--	102.71	3713.37	--	--				
				7/22/2013			NM						
				3/4/2014	--	101.00	3715.08	--	--				
				10/15/2014			NM						
				3/16/2015	--	98.80	3716.28	--	--				
				10/12/2015	--	105.99	3710.09	--	--				
				3/14/2016	--	101.63	3714.45	--	--				
				10/3/2016			NM						
				3/13/2017	--	103.15	3712.93	--	--				
				9/11/2017			NM						
				3/12/2018	--	105.96	3710.12	--	--				
				9/10/2018			NM						
				1/17/2019			NM						
				11/20/2019	112.44	Dry	--	--	--				
				4/13/2020	106.95	Dry	--	--	--				
				8/11/2021	106.95	Dry	--	--	--				
				12/2/2021	106.88	Dry	--	--	--				
				6/13/2022	106.84	Dry	--	--	--				
				11/16/2022	106.89	Dry	--	--	--				
7/28/2023	106.99	Dry	--	--	--								
11/8/2023	106.88	Dry	--	--	--								
9/2/2025	106.88	DRY	--	--	--								
11/12/2025	106.88	DRY	--	--	--								

Appendix C
 Cumulative Potentiometric Elevation Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 South 1/4 of the southeast 1/4 of Section 1, Township 17 South, Range 36 East
 Lea County, New Mexico



Well	TOC elev ¹	Well Diameter (inches)	Screen Interval (bgs ²)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Corrected Groundwater Elevation (ft above MSL ²)	Depth to LNAPL (ft below TOC)	Thickness of LNAPL (ft)
MW-D2	3815.93	4	62'-242'	5/9/2007	204.00	91.63	3724.30	--	--
				9/26/2007	--	92.79	3723.14	--	--
				6/13/2008	--	94.93	3721.00	--	--
				9/15/2008	--	97.77	3718.16	--	--
				1/26/2009	--	91.12	3724.81	--	--
				7/9/2009	--	99.30	3716.63	--	--
				1/25/2010	--	95.27	3720.66	--	--
				7/6/2010	--	100.93	3715.00	--	--
				1/26/2011	--	97.76	3716.17	--	--
				7/11/2011	--	108.10	3706.83	--	--
				10/15/2012	--	110.30	3705.63	--	--
				1/21/2013	--	102.80	3713.13	--	--
				7/22/2013	--	110.01	3705.92	--	--
				3/4/2014	--	101.18	3714.75	--	--
				10/15/2014	--	108.69	3707.24	--	--
				3/16/2015	--	99.96	3715.97	--	--
				10/12/2015	--	106.27	3709.66	--	--
				3/14/2016	--	102.10	3713.83	--	--
				10/3/2016	--	109.72	3706.21	--	--
				3/13/2017	--	103.51	3712.42	--	--
				9/11/2017	--	113.95	3701.98	--	--
				3/12/2018	--	106.52	3709.41	--	--
				9/18/2018	--	--	NM	--	--
				1/17/2019	--	107.48	3708.45	--	--
				11/20/2019	--	113.50	3702.43	--	--
				4/13/2020	--	107.48	3708.45	--	--
				8/11/2021	202.69	114.70	3701.23	--	--
				12/2/2021	224.22	115.77	3700.16	--	--
				6/13/2022	202.69	115.33	3700.60	--	--
				11/16/2022	202	117.17	3698.76	--	--
7/28/2023	224.58	117.39	3698.54	--	--				
11/8/2023	--	121.53	3694.4	--	--				
9/2/2025	--	121.26	3694.67	--	--				
11/12/2025	--	115.33	3700.6	--	--				
MW-E	3816.31	4	65'-105'	9/19/2005	107.99	90.39	3725.92	--	--
				12/5/2005	--	88.40	3727.91	--	--
				5/9/2007	--	91.47	3723.84	--	--
				9/27/2007	--	92.60	3723.71	--	--
				7/1/2008	--	95.54	3720.77	--	--
				9/15/2008	--	97.21	3719.10	--	--
				1/26/2009	--	91.11	3725.20	--	--
				7/9/2009	--	98.81	3717.50	--	--
				1/25/2010	107.01	95.20	3721.11	--	--
				7/6/2010	--	100.37	3715.94	--	--
				1/26/2011	--	97.50	3718.81	--	--
				7/11/2011	--	--	NM	--	--
				10/15/2012	--	--	NM	--	--
				1/21/2013	--	102.52	3713.79	--	--
				7/22/2013	--	--	NM	--	--
				3/4/2014	--	101.16	3715.15	--	--
				10/15/2014	--	--	NM	--	--
				3/16/2015	--	99.84	3716.47	--	--
				10/12/2015	--	105.48	3710.83	--	--
				3/14/2016	--	101.89	3714.42	--	--
				10/3/2016	--	--	NM	--	--
				3/13/2017	--	103.30	3713.01	--	--
				9/11/2017	--	--	NM	--	--
				3/12/2018	--	106.04	3710.27	--	--
				9/10/2018	--	--	NM	--	--
				1/17/2019	--	--	NM	--	--
				11/20/2019	111.82	Dry	--	--	--
				4/13/2020	107.03	Dry	--	--	--
				8/11/2021	107.01	Dry	--	--	--
				12/2/2021	106.95	Dry	--	--	--
6/13/2022	106.84	Dry	--	--	--				
11/16/2022	106.96	Dry	--	--	--				
7/28/2023	107.05	Dry	--	--	--				
11/8/2023	107.15	Dry	--	--	--				
9/2/2025	107.15	DRY	--	--	--				
11/12/2025	107.15	DRY	--	--	--				

Appendix C
 Cumulative Potentiometric Elevation Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 South 1/4 of the southeast 1/4 of Section 1, Township 17 South, Range 36 East
 Lea County, New Mexico



Well	TOC elev ¹	Well Diameter (inches)	Screen Interval (bgs ²)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Corrected Groundwater Elevation (ft above MSL ²)	Depth to LNAPL (ft below TOC)	Thickness of LNAPL (ft)				
MW-F	3816.69	4	65'-105'	9/19/2005	108.09	89.86	3726.83	--	--				
				12/5/2005	--	89.09	3723.60	--	--				
				5/9/2007	--	91.21	3725.48	--	--				
				9/27/2007	--	92.26	3724.43	--	--				
				7/1/2008	--	93.93	3722.76	--	--				
				9/15/2008	--	96.49	3720.20	--	--				
				1/26/2009	--	91.10	3725.59	--	--				
				7/9/2009	--	98.00	3718.69	--	--				
				1/25/2010	106.70	94.89	3721.80	--	--				
				7/6/2010	--	99.50	3717.19	--	--				
				1/25/2011	--	97.20	3719.49	--	--				
				7/11/2011	--	106.29	3710.40	--	--				
				10/15/2012	--	--	NM	--	--				
				1/21/2013	--	102.16	3714.53	--	--				
				7/22/2013	--	--	NM	--	--				
				3/4/2014	--	101.02	3715.67	--	--				
				10/15/2014	--	--	NM	--	--				
				3/16/2015	--	99.81	3716.88	--	--				
				10/12/2015	--	104.79	3711.90	--	--				
				3/14/2016	--	101.55	3715.14	--	--				
				10/3/2016	--	--	NM	--	--				
				3/13/2017	--	103.00	3713.69	--	--				
				9/11/2017	--	--	NM	--	--				
				3/12/2018	--	105.74	3710.95	--	--				
				9/10/2018	--	--	NM	--	--				
				1/17/2019	--	--	NM	--	--				
				11/20/2019	112.11	Dry	--	--	--				
				4/13/2020	106.68	106.64	--	--	--				
				8/11/2021	106.65	Dry	--	--	--				
				12/2/2021	106.47	Dry	--	--	--				
				6/13/2022	106.60	Dry	--	--	--				
				11/16/2022	106.61	Dry	--	--	--				
				7/28/2023	106.72	Dry	--	--	--				
				11/8/2023	106.55	Dry	--	--	--				
				9/2/2025	106.55	DRY	--	--	--				
				11/12/2025	106.55	DRY	--	--	--				
				MW-G	3818.23	4	65'-105'	9/19/2005	108.05	89.48	3728.77	--	--
								12/5/2005	--	88.18	3730.05	--	--
								5/9/2007	--	91.19	3727.04	--	--
								10/1/2007	--	92.08	3726.15	--	--
7/1/2008	--	95.54	3722.69					--	--				
9/15/2008	--	95.70	3722.53					--	--				
1/26/2009	--	91.48	3726.75					--	--				
7/9/2009	--	96.72	3721.51					--	--				
1/25/2010	106.55	95.01	3723.22					--	--				
7/6/2010	--	98.50	3719.73					--	--				
1/25/2011	--	97.35	3720.88					--	--				
7/11/2011	--	103.60	3714.63					--	--				
10/15/2012	--	--	NM					--	--				
1/21/2013	--	102.14	3716.09					--	--				
7/22/2013	--	--	NM					--	--				
3/4/2014	--	101.10	3717.13					--	--				
10/15/2014	--	--	NM					--	--				
3/16/2015	--	100.21	3718.02					--	--				
10/15/2015	--	104.32	3713.91					--	--				
3/14/2016	--	101.15	3717.08					--	--				
10/3/2016	--	--	NM					--	--				
3/13/2017	--	102.70	3715.53					--	--				
9/11/2017	--	--	NM					--	--				
3/12/2018	--	4/14/1900	3713.12					--	--				
9/10/2018	--	--	NM					--	--				
1/17/2019	--	--	NM					--	--				
11/20/2019	109.68	Dry	--					--	--				
4/13/2020	106.53	Dry	--					--	--				
8/11/2021	106.39	Dry	--					--	--				
12/2/2021	106.46	Dry	--					--	--				
6/13/2022	106.42	Dry	--					--	--				
11/16/2022	106.40	Dry	--					--	--				
7/28/2023	106.51	Dry	--					--	--				
11/8/2023	106.53	Dry	--					--	--				
9/2/2025	106.53	DRY	--					--	--				
11/12/2025	106.53	DRY	--					--	--				

Appendix C
 Cumulative Potentiometric Elevation Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 South 1/2 of the southeast 1/4 of Section 1, Township 17 South, Range 36 East
 Lea County, New Mexico



Well	TOC elev ¹	Well Diameter (inches)	Screen Interval (bgs ²)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Corrected Groundwater Elevation (ft above MSL ³)	Depth to LNAPL (ft below TOC)	Thickness of LNAPL (ft)
MW-H	3816.74	4	65'-105'	6/15/2005	108.10	86.46	3730.28	--	--
				7/25/2005	--	91.05	3725.69	--	--
				9/19/2005	--	90.15	3726.59	--	--
				12/5/2005	--	88.30	3728.44	--	--
				5/9/2007	--	91.30	3725.44	--	--
				10/2/2007	--	92.37	3724.37	--	--
				6/13/2008	--	93.94	3722.80	--	--
				9/15/2008	--	97.28	3718.46	--	--
				1/28/2009	--	91.14	3725.60	--	--
				7/9/2009	--	98.30	3718.44	--	--
				1/25/2010	105.53	94.91	3721.83	--	--
				7/6/2010	--	101.28	3715.46	--	--
				1/27/2011	--	97.87	3718.87	--	--
				7/11/2011	--	--	NM	--	--
				10/15/2012	--	--	NM	--	--
				1/21/2013	--	102.59	3714.15	--	--
				7/22/2013	--	--	NM	--	--
				3/4/2014	--	100.53	3716.21	--	--
				10/15/2014	--	--	NM	--	--
				3/16/2015	--	99.77	3716.97	--	--
				10/12/2015	--	--	NM	--	--
				3/14/2016	--	101.22	3715.52	--	--
				10/3/2016	--	--	NM	--	--
				3/13/2017	--	102.65	3714.09	--	--
				9/11/2017	--	--	NM	--	--
				3/12/2018	--	4/13/1900	3711.77	--	--
				9/10/2018	--	--	NM	--	--
				1/17/2019	--	--	NM	--	--
				11/20/2019	111.05	Dry	--	--	--
				4/13/2020	105.68	Dry	--	--	--
				11/8/2020	--	Dry	--	--	--
				8/11/2021	105.53	Dry	--	--	--
12/2/2021	105.54	Dry	--	--	--				
6/14/2022	105.45	Dry	--	--	--				
11/16/2022	105.46	Dry	--	--	--				
7/28/2023	105.87	Dry	--	--	--				
11/8/2023	105.50	Dry	--	--	--				
9/2/2025	105.5	DRY	--	--	--				
11/12/2025	105.50	DRY	--	--	--				
MW-I	3816.94	4	65'-105'	6/15/2005	108.07	85.90	3731.04	--	--
				7/25/2005	--	89.94	3727.00	--	--
				9/19/2005	--	89.50	3727.44	--	--
				12/5/2005	--	87.88	3729.06	--	--
				5/9/2007	--	90.83	3726.11	--	--
				10/1/2007	--	91.81	3725.12	--	--
				6/13/2008	--	93.03	3723.91	--	--
				9/15/2008	--	96.38	3720.56	--	--
				1/26/2009	--	90.78	3726.16	--	--
				7/9/2009	--	97.19	3719.75	--	--
				1/25/2010	103.79	94.52	3722.42	--	--
				7/6/2010	--	99.29	3717.65	--	--
				1/27/2011	--	97.39	3716.55	--	--
				7/11/2011	--	106.76	3710.18	--	--
				10/15/2012	--	--	NM	--	--
				1/21/2013	--	102.14	3714.80	--	--
				7/22/2013	--	--	NM	--	--
				3/4/2014	--	100.26	3716.68	--	--
				10/15/2014	--	--	NM	--	--
				3/16/2015	--	99.44	3717.50	--	--
				10/12/2015	--	105.52	3711.42	--	--
				3/14/2016	--	100.71	3716.23	--	--
				10/3/2016	--	--	NM	--	--
				3/13/2017	--	102.30	3714.64	--	--
				9/11/2017	--	--	NM	--	--
				3/12/2018	--	104.80	3712.14	--	--
				9/10/2018	--	--	NM	--	--
				1/17/2019	--	--	NM	--	--
				11/20/2019	111.11	Dry	--	--	--
				4/13/2020	106.61	106.42	3710.52	--	--
				8/11/2021	106.64	Dry	--	--	--
				12/2/2021	106.68	Dry	--	--	--
6/14/2022	106.86	106.10	3710.84	--	--				
11/16/2022	106.66	Dry	--	--	--				
7/28/2023	106.63	Dry	--	--	--				
11/8/2023	108.78	Dry	--	--	--				
9/2/2025	108.78	DRY	--	--	--				
11/12/2025	106.68	DRY	--	--	--				
MW-J	3817.66	4	65'-105'	9/19/2005	108.05	87.24	3730.42	--	--
				12/5/2005	--	86.23	3731.43	--	--
				5/9/2007	--	89.07	3728.59	--	--
				10/1/2007	--	89.86	3727.80	--	--
				6/13/2008	--	90.51	3727.15	--	--
				9/15/2008	--	93.44	3724.22	--	--
				1/26/2009	--	89.58	3728.08	--	--
				7/9/2009	--	93.95	3723.71	--	--
				1/25/2010	105.97	93.03	3724.63	--	--
				7/6/2010	--	96.05	3721.61	--	--
				1/25/2011	--	95.59	3722.07	--	--
				7/11/2011	--	100.22	3717.44	--	--
				10/15/2012	--	103.82	3713.84	--	--
				1/21/2013	--	100.13	3717.53	--	--
				7/22/2013	--	103.40	3714.26	--	--
				3/4/2014	--	98.82	3718.84	--	--
				10/15/2014	--	104.29	3713.37	--	--
				3/16/2015	--	98.21	3714.45	--	--
				10/12/2015	--	102.61	3715.05	--	--
				3/14/2016	--	98.85	3718.81	--	--
				10/3/2016	--	105.01	3712.65	--	--
				3/13/2017	--	100.45	3717.21	--	--
				9/11/2017	--	--	NM	--	--
				3/12/2018	--	102.68	3714.98	--	--
				9/10/2018	--	--	NM	--	--
				1/17/2019	--	104.87	3712.79	--	--
				11/20/2019	108.65	Dry	--	--	--
				4/13/2020	105.90	104.50	3713.16	--	--
				8/11/2021	105.39	Dry	--	--	--
				12/2/2021	105.82	Dry	--	--	--
				6/14/2022	106.80	Dry	--	--	--
				11/16/2022	105.39	Dry	--	--	--
7/28/2023	105.83	Dry	--	--	--				
11/8/2023	106.72	Dry	--	--	--				
9/2/2025	105.72	DRY	--	--	--				
11/12/2025	105.72	DRY	--	--	--				

Appendix C
 Cumulative Potentiometric Elevation Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 South 1/4 of the southeast 1/4 of Section 1, Township 17 South, Range 36 East
 Lea County, New Mexico



Well	TOC elev ¹	Well Diameter (inches)	Screen Interval (bgs ²)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Corrected Groundwater Elevation (ft above MSL ³)	Depth to LNAPL (ft below TOC)	Thickness of LNAPL (ft)		
MW-L	3818.35	4	65'-105'	9/19/2005	108.07	86.95	3731.40	--	--		
				12/5/2005	--	87.80	3730.55	--	--		
				5/9/2007	--	90.70	3727.65	--	--		
				10/1/2007	--	91.54	3726.81	--	--		
				6/13/2008	--	92.29	3726.06	--	--		
				9/15/2008	--	95.36	3722.99	--	--		
				1/26/2009	--	91.03	3727.32	--	--		
				7/9/2009	--	95.76	3722.59	--	--		
				1/25/2010	--	107.20	94.57	3723.78	--	--	
				7/6/2010	--	--	98.03	3720.32	--	--	
				1/27/2011	--	--	97.60	3720.75	--	--	
				7/11/2011	--	--	102.58	3715.77	--	--	
				10/15/2012	--	--	106.09	3712.26	--	--	
				1/21/2013	--	--	101.90	3716.45	--	--	
				7/22/2013	--	--	105.75	3712.60	--	--	
				3/4/2014	--	--	100.96	3717.39	--	--	
				10/15/2014	--	--	106.35	3712.00	--	--	
				3/16/2015	--	--	99.73	3716.62	--	--	
				10/12/2015	--	--	104.44	3713.91	--	--	
				3/14/2016	--	--	100.46	3717.89	--	--	
				10/3/2016	--	--	107.00	3711.35	--	--	
				3/13/2017	--	--	102.05	3716.30	--	--	
				9/1/2017	--	--	--	NM	--	--	
				3/12/2018	--	--	104.41	3713.94	--	--	
				9/10/2018	--	--	--	NM	--	--	
				1/17/2019	--	--	106.54	3711.81	--	--	
				11/20/2019	--	--	115.66	Dry	--	--	
				4/13/2020	--	--	107.20	106.15	3712.20	--	--
				8/11/2021	--	--	107.22	Dry	--	--	
				12/2/2021	--	--	107.15	Dry	--	--	
				6/14/2022	--	--	107.22	Dry	--	--	
				11/16/2022	--	--	107.19	Dry	--	--	
7/28/2023	--	--	107.25	Dry	--	--					
11/8/2023	--	--	107.18	Dry	--	--					
9/2/2025	--	--	107.18	DRY	--	--					
11/12/2025	--	--	107.18	DRY	--	--					
MW-M	3817.88	4	65'-105'	9/19/2005	108.04	86.95	3730.83	--	--		
				12/5/2005	--	86.06	3731.82	--	--		
				5/9/2007	--	88.89	3728.99	--	--		
				10/1/2007	--	89.63	3728.25	--	--		
				6/13/2008	--	90.18	3727.70	--	--		
				9/15/2008	--	92.97	3724.91	--	--		
				1/26/2009	--	89.49	3728.39	--	--		
				7/9/2009	--	93.50	3724.38	--	--		
				1/25/2010	--	--	92.89	3724.99	--	--	
				7/6/2010	--	--	95.53	3722.35	--	--	
				1/25/2011	--	--	95.35	3722.53	--	--	
				7/11/2011	--	--	99.53	3718.35	--	--	
				10/15/2012	--	--	103.15	3714.73	--	--	
				1/21/2013	--	--	99.90	3717.98	--	--	
				7/22/2013	--	--	102.89	3714.99	--	--	
				3/4/2014	--	--	98.75	3719.13	--	--	
				10/15/2014	--	--	103.77	3714.11	--	--	
				3/16/2015	--	--	98.17	3719.71	--	--	
				10/12/2015	--	--	102.10	3715.78	--	--	
				3/14/2016	--	--	98.65	3719.23	--	--	
				10/3/2016	--	--	104.35	3713.53	--	--	
				3/13/2017	--	--	100.30	3717.58	--	--	
				9/1/2017	--	--	106.30	3711.68	--	--	
				3/12/2018	--	--	102.44	3715.44	--	--	
				9/10/2018	--	--	--	NM	--	--	
				1/17/2019	--	--	104.66	3713.22	--	--	
				11/20/2019	--	--	110.44	Dry	--	--	
				4/13/2020	--	--	108.10	104.28	3713.60	--	--
				8/11/2021	--	--	108.11	108.00	3709.88	--	--
				12/2/2021	--	--	108.13	Dry	--	--	
				6/14/2022	--	--	108.13	Dry	--	--	
				11/16/2022	--	--	108.09	Dry	--	--	
7/28/2023	--	--	108.09	Dry	--	--					
11/8/2023	--	--	109.98	Dry	--	--					
9/2/2025	--	--	108.16	DRY	--	--					
11/12/2025	--	--	108.20	DRY	--	--					

Appendix C
 Cumulative Potentiometric Elevation Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 South 1/4 of the southeast 1/4 of Section 1, Township 17 South, Range 36 East
 Lea County, New Mexico



Well	TOC elev ¹	Well Diameter (inches)	Screen Interval (bgs ²)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Corrected Groundwater Elevation (ft above MSL ²)	Depth to LNAPL (ft below TOC)	Thickness of LNAPL (ft)
MW-N	3817.7	4	65'-105'	6/16/2005	108.08	86.25	3731.45	--	--
				7/25/2005	--	89.85	3727.85	--	--
				9/19/2005	--	89.73	3727.97	--	--
				12/5/2005	--	88.19	3729.51	--	--
				5/9/2007	--	91.17	3726.53	--	--
				10/2/2007	--	92.12	3725.58	--	--
				6/13/2008	--	93.14	3724.56	--	--
				9/15/2008	--	96.44	3721.26	--	--
				1/28/2009	--	91.24	3726.46	--	--
				7/9/2009	--	97.16	3720.54	--	--
				1/25/2010	108.67	94.94	3722.76	--	--
				7/6/2010	--	99.07	3718.63	--	--
				1/26/2011	--	97.22	3720.48	--	--
				7/11/2011	--	104.40	3713.30	--	--
				10/15/2012	--	107.82	3709.88	--	--
				1/21/2013	--	102.50	3715.20	--	--
				7/22/2013	--	107.27	3710.43	--	--
				3/4/2014	--	100.80	3716.90	--	--
				10/15/2014	--	107.64	3710.06	--	--
				3/16/2015	--	99.91	3717.79	--	--
				10/12/2015	--	105.57	3712.13	--	--
				3/14/2016	--	101.02	3716.68	--	--
				10/3/2016	--		NM	--	--
				3/13/2017	--	102.60	3715.10	--	--
				9/11/2017	--		NM	--	--
				3/12/2018	--	105.02	3712.68	--	--
				3/12/2018	--	105.02	3712.68	--	--
				9/10/2018	--		NM	--	--
				1/17/2019	--	107.09	3710.61	--	--
				1/12/2019	--	122.22	Dry	--	--
				4/13/2020	108.87	106.73	3710.97	--	--
				8/11/2021	108.64	Dry	--	--	--
				12/2/2021	72.21	Dry	--	--	--
6/14/2022	108.58	Dry	--	--	--				
11/16/2022	108.55	Dry	--	--	--				
7/28/2023	108.63	Dry	--	--	--				
11/9/2023	108.52	Dry	--	--	--				
9/2/2025	108.52	DRY	--	--	--				
11/12/2025	108.52	DRY	--	--	--				
MW-O	3814.74	4	65'-105'	7/25/2005	113.05	96.58	3718.16	--	--
				9/19/2005	--	93.71	3721.03	--	--
				12/5/2005	--	90.80	3723.94	--	--
				5/9/2007	--	93.97	3720.77	--	--
				10/2/2007	--	95.44	3719.30	--	--
				6/13/2008	--	92.82	3721.92	--	--
				9/15/2008	--	102.30	3712.44	--	--
				1/26/2009	--	92.41	3722.33	--	--
				7/9/2009	--	103.69	3711.05	--	--
				1/25/2010	112.47	97.04	3717.70	--	--
				7/6/2010	--	104.52	3710.22	--	--
				1/27/2011	--	100.46	3714.28	--	--
				7/11/2011	--		NM	--	--
				10/15/2012	--		NM	--	--
				1/21/2013	--	105.35	3709.39	--	--
				7/22/2013	--		NM	--	--
				3/4/2014	--	102.89	3711.85	--	--
				10/15/2014	--		NM	--	--
				3/16/2015	--	101.66	3713.08	--	--
				1/9/2/2015	--	111.03	3703.71	--	--
				3/14/2016	--	104.10	3710.64	--	--
				10/3/2016	--		NM	--	--
				3/13/2017	--		NM	--	--
9/11/2017	--		NM	--	--				
3/12/2018	--		NM	--	--				
9/10/2018	--		NM	--	--				
plugged									

Appendix C
 Cumulative Potentiometric Elevation Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 South 1/4 of the southeast 1/4 of Section 1, Township 17 South, Range 36 East
 Lea County, New Mexico



Well	TOC elev ¹	Well Diameter (inches)	Screen Interval (bgs ²)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Corrected Groundwater Elevation (ft above MSL ³)	Depth to LNAPL (ft below TOC)	Thickness of LNAPL (ft)
MW-O-R	3815.90	4	65'-105'	10/3/2016	--	115.51	3700.39	--	--
				3/13/2017	--	105.40	3710.50	--	--
				9/11/2017	--	121.25	3694.65	--	--
				3/12/2018	--	108.73	3707.17	--	--
				9/10/2018	--	124.91	3690.99	--	--
				1/17/2019	--	109.83	3706.07	--	--
				11/20/2019	135.45	117.39	3698.51	--	--
				4/13/2020	128.07	110.10	3705.80	--	--
				11/10/2020	128.17	121.03	3694.87	--	--
				8/11/2021	128.12	118.71	3697.19	--	--
				12/2/2021	128.11	120.99	3694.91	--	--
				6/13/2022	129.12	121.30	3694.60	--	--
				11/16/2022	128.08	121.76	3694.14	--	--
				7/28/2023	128.19	121.57	3694.33	--	--
				11/8/2023	128.02	127.92	3687.98	--	--
				9/2/2025	128.02	127.07	3688.83	--	--
				11/12/2025	128.02	118.01	3697.89	--	--
				MW-P	3814.24	4	65'-105'	6/15/2005	113.05
7/25/2005	--	96.83	3717.41					--	--
9/19/2005	--	92.73	3721.51					--	--
12/5/2005	--	89.84	3724.40					--	--
5/9/2007	--	93.07	3721.17					--	--
9/27/2007	--	94.58	3719.68					--	--
6/13/2008	--	98.30	3715.94					--	--
9/15/2008	--	101.73	3712.51					--	--
1/26/2009	--	91.62	3722.62					--	--
7/9/2009	--	103.99	3710.25					--	--
1/25/2010	112.90	96.05	3718.19					--	--
7/6/2010	--	104.93	3709.31					--	--
1/27/2011	--	99.60	3714.64					--	--
7/11/2011	--	111.72	3702.52					--	--
10/15/2012	--		NM					--	--
1/21/2013	--	103.90	3710.34					--	--
7/22/2013	--	112.72	3701.52					--	--
3/4/2014	--	101.45	3712.79					--	--
10/15/2014	--	112.19	3702.05					--	--
3/16/2015	--	109.93	3713.31					--	--
10/12/2015	--	109.91	3704.33					--	--
3/14/2016	--	103.66	3710.58					--	--
10/3/2016	--	112.75	3701.49					--	--
3/13/2017	--	104.91	3709.33					--	--
9/11/2017	--		NM					--	--
3/12/2018	--	108.43	3705.81					--	--
9/19/2018	--		NM					--	--
1/17/2019	--	109.00	3705.24					--	--
11/20/2019	114.5	Dry	--					--	--
4/13/2020	113.12	109.10	3705.14					--	--
11/9/2020	--	Dry	--					--	--
8/11/2021	113	112.79	3701.45					--	--
12/2/2021	112.97	Dry	--					--	--
6/13/2022	112.92	Dry	--					--	--
11/16/2022	116.26	Dry	--					--	--
7/28/2023	113.02	Dry	--					--	--
11/8/2023	112.91	Dry	--					--	--
9/2/2025	112.91	DRY	--					--	--
11/12/2025	113.00	DRY	--	--	--				
MW-Q	3814.23	4	55'-105'	7/25/2005	108.07	96.81	3717.42	--	--
				9/19/2005	--	90.00	3724.23	--	--
				12/5/2005	--	87.53	3726.70	--	--
				5/9/2007	--	90.43	3723.80	--	--
				9/27/2007	--	92.23	3722.00	--	--
				6/13/2008	--	98.61	3715.62	--	--
				9/15/2008	--	98.08	3716.15	--	--
				1/26/2009	--	90.52	3723.71	--	--
				7/9/2009	--	103.51	3710.72	--	--
				1/25/2010	108.41	94.13	3720.10	--	--
				7/6/2010	--	101.92	3712.31	--	--
				1/27/2011	--	97.60	3716.63	--	--
				7/11/2011	--		NM	--	--
				10/15/2012	--		NM	--	--
				1/21/2013	--	100.64	3713.59	--	--
				7/22/2013	--	107.82	3706.41	--	--
				3/4/2014	--	99.02	3715.21	--	--
				10/15/2014	--	107.90	3708.33	--	--
				3/16/2015	--	99.72	3714.51	--	--
				10/12/2015	--	105.95	3708.28	--	--
				3/14/2016	--	104.60	3709.63	--	--
				10/3/2016	--		NM	--	--
				3/13/2017	--	105.70	3708.53	--	--
				9/11/2017	--	107.94	3706.29	--	--
				3/12/2018	--	107.80	3706.43	--	--
				9/10/2018	--		NM	--	--
				1/17/2019	--	107.06	3707.17	--	--
				11/20/2019	114.59	Dry	--	--	--
				4/13/2020	108.55	105.20	3709.03	--	--
				8/11/2021	108.47	Dry	--	--	--
				12/2/2021	108.43	Dry	--	--	--
				6/13/2022	117.23	Dry	--	--	--
				11/16/2022	108.41	Dry	--	--	--
				7/28/2023	108.44	Dry	--	--	--
				11/8/2023	108.08	Dry	--	--	--
				9/2/2025	108.08	DRY	45902.00	--	--
				11/12/2025	108.08	DRY	45973.00	--	--

Appendix C
 Cumulative Potentiometric Elevation Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 South 1/2 of the southeast 1/4 of Section 1, Township 17 South, Range 36 East
 Lea County, New Mexico



Well	TOC elev ¹	Well Diameter (inches)	Screen Interval (bgs ¹)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Corrected Groundwater Elevation (ft above MSL ²)	Depth to LNAPL (ft below TOC)	Thickness of LNAPL (ft)
MW-R	3810.89	4	65'-105'	9/18/2005	152.93	91.19	3718.70	--	--
				12/5/2005	--	87.71	3723.18	--	--
				5/9/2007	--	90.83	3720.06	--	--
				9/27/2007	--	92.83	3718.06	--	--
				6/13/2008	--	98.18	3712.71	--	--
				9/15/2008	--	100.76	3710.13	--	--
				1/26/2009	--	88.57	3722.32	--	--
				7/9/2009	--	105.25	3705.64	--	--
				1/25/2010	152.29	93.89	3717.01	--	--
				7/6/2010	--	103.95	3708.94	--	--
				1/26/2011	--	97.58	3713.31	--	--
				7/11/2011	--	108.64	3702.25	--	--
				10/15/2012	--	114.39	3696.50	--	--
				1/21/2013	--	101.10	3709.79	--	--
				7/22/2013	--	111.79	3699.10	--	--
				3/4/2014	--	99.49	3711.40	--	--
				10/15/2014	--	109.57	3701.32	--	--
				3/16/2015	--	98.83	3712.06	--	--
				10/12/2015	--	107.52	3703.37	--	--
				3/14/2016	--	102.61	3708.28	--	--
				10/3/2016	--	113.15	3697.74	--	--
				3/13/2017	--	103.80	3707.29	--	--
				9/11/2017	--	121.59	3689.39	--	--
				3/12/2018	--	107.80	3703.09	--	--
				9/10/2018	--	125.00	3685.89	--	--
				1/17/2019	--	106.82	3704.07	--	--
				11/20/2019	141.35	113.96	3696.93	--	--
				4/13/2020	152.64	108.13	3702.76	--	--
				8/11/2021	152.44	116.41	3694.48	--	--
				12/2/2021	152.31	119.78	3691.19	--	--
6/13/2022	152.45	119.46	3691.43	--	--				
11/16/2022	152.29	118.23	3692.66	--	--				
7/28/2023	152.48	121.69	3689.20	--	--				
11/8/2023	152.88	126.64	3684.25	--	--				
9/2/2025	152.88	127.07	3683.82	--	--				
11/12/2025	152.88	114.77	3696.12	--	--				
MW-S	3816.52	4	20'-120'	5/9/2007	122.73	87.07	3723.45	--	--
				10/1/2007	--	87.85	3728.67	--	--
				6/13/2008	--	88.58	3727.94	--	--
				9/15/2008	--	91.27	3725.25	--	--
				1/26/2009	--	87.74	3728.78	--	--
				7/9/2009	--	91.86	3724.66	--	--
				1/25/2010	122.77	91.11	3725.41	--	--
				7/6/2010	--	93.92	3722.60	--	--
				1/25/2011	--	93.60	3722.92	--	--
				7/11/2011	--	98.00	3718.52	--	--
				10/15/2012	--	101.41	3715.11	--	--
				1/21/2013	--	97.91	3718.61	--	--
				7/22/2013	--	100.96	3715.56	--	--
				3/4/2014	--	96.75	3719.77	--	--
				10/15/2014	--	102.00	3714.52	--	--
				3/16/2015	--	96.29	3723.23	--	--
				10/12/2015	--	100.54	3715.98	--	--
				3/14/2016	--	97.03	3719.49	--	--
				10/3/2016	--	102.92	3713.60	--	--
				3/13/2017	--	98.60	3717.92	--	--
				9/11/2017	--	104.90	3711.62	--	--
				3/12/2018	--	100.72	3715.80	--	--
				9/10/2018	--	107.40	3709.12	--	--
				1/17/2019	--	102.82	3713.70	--	--
				11/20/2019	129.7	106.92	3709.60	--	--
				4/13/2020	122.67	102.50	3714.02	--	--
				8/11/2021	122.81	105.93	3710.59	--	--
				12/2/2021	122.61	107.58	3708.94	--	--
				6/14/2022	122.84	108.53	3707.99	--	--
				11/16/2022	122.71	109.11	3707.41	--	--
7/28/2023	122.62	109.77	3706.75	--	--				
11/8/2023	122.68	112.08	3704.44	--	--				
9/2/2025	122.68	112.77	3703.75	--	--				
11/12/2025	122.68	110.45	3706.07	--	--				
MW-T	3816.71	4	20'-120'	5/9/2007	--	N/A ²	--	--	--
				7/7/2008	--	94.43	3722.28	--	--
				9/15/2008	--	96.81	3719.90	--	--
				1/26/2009	122.17	92.39	3723.32	--	--
				7/9/2009	--	97.92	3718.79	--	--
				7/6/2010	--	99.58	3717.13	--	--
				1/27/2011	--	97.69	3719.02	--	--
				7/11/2011	--	105.15	3711.56	--	--
				10/15/2012	--	105.43	3711.28	--	--
				1/21/2013	--	102.20	3714.51	--	--
				7/22/2013	--	107.70	3709.01	--	--
				3/4/2014	--	100.24	3716.47	--	--
				10/15/2014	--	107.84	3708.87	--	--
				3/16/2015	--	99.45	3717.26	--	--
				10/12/2015	--	105.79	3710.92	--	--
				3/14/2016	--	100.86	3715.85	--	--
				10/3/2016	--	109.18	3707.53	--	--
				3/13/2017	--	102.40	3714.31	--	--
				9/11/2017	--	112.12	3704.59	--	--
				3/12/2018	--	104.98	3711.73	--	--
				9/10/2018	--	115.31	3701.40	--	--
				1/17/2019	--	106.80	3709.91	--	--
				11/20/2019	128.81	112.62	3704.09	--	--
				4/13/2020	122.25	106.45	3710.26	--	--
				8/11/2021	122.22	111.34	3705.37	--	--
				12/2/2021	122.20	113.91	3702.80	--	--
				6/14/2022	122.28	114.62	3702.09	--	--
				11/16/2022	122.17	115.01	3701.70	--	--
				7/28/2023	122.30	115.39	3701.32	--	--
				11/8/2023	122.08	119.05	3697.66	--	--
9/2/2025	122.08	119.45	3697.26	--	--				
11/12/2025	122.08	114.88	3702.03	--	--				

Appendix C
 Cumulative Potentiometric Elevation Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 South 1/2 of the southeast 1/4 of Section 1, Township 17 South, Range 36 East
 Lea County, New Mexico



Well	TOC elev ¹	Well Diameter (inches)	Screen Interval (bgs ³)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Corrected Groundwater Elevation (ft above MSL ²)	Depth to LNAPL (ft below TOC)	Thickness of LNAPL (ft)	
MW-U	3814.94	4	80'-120'	5/9/2007	123.10	91.76	3723.18	--	--	
				9/27/2007	--	93.09	3721.85	--	--	
				6/13/2008	--	96.34	3718.60	--	--	
				9/15/2008	--	99.07	3715.87	--	--	
				1/26/2009	--	91.19	3723.75	--	--	
				7/9/2009	--	101.27	3713.67	--	--	
				1/25/2010	--	95.12	3719.82	--	--	
				7/6/2010	--	102.33	3712.61	--	--	
				1/25/2011	--	98.38	3716.56	--	--	
				7/11/2011	--	109.63	3705.31	--	--	
				10/15/2012	--	112.01	3702.93	--	--	
				1/21/2013	--	102.60	3712.34	--	--	
				7/22/2013	--	110.61	3704.33	--	--	
				3/4/2014	--	100.45	3714.49	--	--	
				10/15/2014	--	109.89	3705.05	--	--	
				3/16/2015	--	100.04	3714.90	--	--	
				10/12/2015	--	107.66	3707.28	--	--	
				3/14/2016	--	102.65	3712.29	--	--	
				10/3/2016	--	112.40	3702.54	--	--	
				3/13/2017	--	103.81	3711.13	--	--	
				9/11/2017	--		NM	--	--	
				3/12/2018	--	106.88	3708.06	--	--	
				9/10/2018	--		NM	--	--	
				1/17/2019	--	107.73	3707.21	--	--	
				11/20/2019	--	124.41	3700.24	--	--	
				4/13/2020	--	117.46	3707.64	--	--	
				8/11/2021	--	117.33	3702.38	--	--	
				12/2/2021	--	117.37	Dry	--	--	
				6/13/2022	--		Lid Damage.	--	--	
				11/16/2022	--	109.93	Dry	--	--	
				7/28/2023	--	117.65	Dry	--	--	
				11/8/2023	--	117.57	Dry	--	--	
9/2/2025	--	117.57	DRY	--	--					
11/12/2025	--	117.87	115.55	3699.39	--	--				
MW-V	3815.04	4	80'-120'	5/9/2007	122.79	92.17	3722.87	--	--	
				9/27/2007	--	93.48	3721.56	--	--	
				6/13/2008	--	96.14	3718.90	--	--	
				9/15/2008	--	99.61	3715.43	--	--	
				1/26/2009	--	91.31	3723.73	--	--	
				7/9/2009	--	101.25	3713.79	--	--	
				1/25/2010	--	95.45	3719.59	--	--	
				7/6/2010	--	102.80	3712.24	--	--	
				1/25/2011	--	98.75	3716.29	--	--	
				7/11/2011	--	109.80	3705.24	--	--	
				10/15/2012	--	113.00	3702.04	--	--	
				1/21/2013	--	103.40	3711.64	--	--	
				7/22/2013	--	111.58	3703.46	--	--	
				3/4/2014	--	100.92	3714.12	--	--	
				10/15/2014	--	110.80	3704.24	--	--	
				3/16/2015	--	100.20	3714.84	--	--	
				10/12/2015	--	108.37	3705.67	--	--	
				3/14/2016	--	102.49	3711.55	--	--	
				10/3/2016	--	113.02	3702.02	--	--	
				3/13/2017	--	103.80	3711.24	--	--	
				9/11/2017	--	117.97	3697.07	--	--	
				3/12/2018	--	106.87	3708.17	--	--	
				9/10/2018	--	121.30	3693.74	--	--	
				1/17/2019	--	108.12	3706.92	--	--	
				11/20/2019	--	130.6	115.35	3699.69	--	--
				4/13/2020	--	123.15	107.93	3707.11	--	--
				8/11/2021	--	122.90	114.06	3700.98	--	--
				12/2/2021	--	122.89	117.98	3697.06	--	--
				6/13/2022	--	122.89	118.86	3696.18	--	--
				11/16/2022	--	122.82	118.71	3696.33	--	--
				7/28/2023	--	122.95	119.24	3695.80	--	--
				11/8/2023	--	122.80	Dry	--	--	
9/2/2025	--	122.80	DRY	--	--					
11/12/2025	--	122.80	116.18	3698.86	--	--				
MW-W	3815.09	4	80'-120'	5/9/2007	122.05	92.76	3722.33	--	--	
				9/27/2007	--	94.06	3721.03	--	--	
				6/13/2008	--	96.37	3718.72	--	--	
				9/15/2008	--	100.23	3714.86	--	--	
				1/26/2009	--	91.72	3723.37	--	--	
				7/9/2009	--	101.58	3713.51	--	--	
				1/25/2010	--	95.38	3719.11	--	--	
				7/6/2010	--	103.41	3711.68	--	--	
				1/26/2011	--	99.24	3715.85	--	--	
				7/11/2011	--	110.25	3704.84	--	--	
				10/15/2012	--	114.13	3700.96	--	--	
				1/21/2013	--	104.11	3710.98	--	--	
				7/22/2013	--	112.89	3702.20	--	--	
				3/4/2014	--	101.65	3713.44	--	--	
				10/15/2014	--	111.77	3703.32	--	--	
				3/16/2015	--	100.59	3714.50	--	--	
				10/12/2015	--	109.08	3706.01	--	--	
				3/14/2016	--	102.75	3712.34	--	--	
				10/3/2016	--	113.76	3701.33	--	--	
				3/13/2017	--	104.40	3710.69	--	--	
				9/11/2017	--	118.61	3696.48	--	--	
				3/12/2018	--	107.33	3707.76	--	--	
				9/10/2018	--		NM	--	--	
				1/17/2019	--	108.71	3706.38	--	--	
				11/20/2019	--	113.77	Dry	--	--	
				4/13/2020	--	122.18	108.71	3706.38	--	--
				8/11/2021	--		Well Destroyed	--	--	

Notes:
¹ TOC - Top of Casing
² MSL - Mean Sea Level
³ bgs - below ground surface
 Professional Survey conducted by West Company of Midland, Inc. in March 2013 and January 2015.

Appendix D

Cumulative Summary of Groundwater Analytical Results

Appendix D
 Cumulative Groundwater Analytical Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 Lea County, New Mexico



Sample I.D. No.	Date	NMWQCC Other Standards for Domestic Water Supply ²												
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Mn	Fe	Nitrate
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
		0.005	1	0.7	0.62	--	--	--	--	--	--	--	--	
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
		<0.005	<0.005	<0.005	<0.005									
	6/16/2005	<0.001	<0.001	<0.001	<0.001									
	7/27/2005	<0.001	<0.001	<0.001	<0.001									
	9/21/2005	<0.001	<0.001	<0.001	<0.001									
	12/9/2005	0.184	0.24	0.0458	0.172									
	7/2/2008	0.0652	0.0018	0.0007	0.0018	0.027	0.077							
	9/18/2008	0.0022	0.0014	0.0007 J	0.0015 J	<0.02	0.076 J							
	2/11/2009	0.0004	0.0002 J	0.0002 J	<0.0006	<0.02	0.031							
	7/14/2009	<0.0002	<0.0002	0.0003 J	<0.0006	0.035 J	0.13							
	1/26/2010	<0.0002	0.0002 J	<0.0002	<0.0006	<0.02	0.073 J							
	7/7/2010	<0.0002	0.0003 J	<0.0002	<0.0006	<0.02	0.070 J							
	1/25/2011	<0.001	<0.0010	<0.0010	<0.0030	<0.0500	<0.050							
	7/13/2011	<0.001	<0.0020	<0.0010	<0.0010	<1.5	<1.5							
	10/16/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50							
	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50							
	7/23/2013	<0.00182	<0.00200	<0.00123	<0.00100	<1.44	<1.44							
	3/4/2014	0.239	<0.00200	<0.00100	0.00644	<1.34	<1.34							
	10/16/2014	0.00113	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48						
	3/20/2015	0.381	0.00251	<0.00100	0.00805	<1.50	<1.50	<1.50						
	10/15/2015	0.0625	<0.00200	<0.00100	0.00581	<1.41	<1.41	<1.41						
	10/15/2015	0.0506	<0.00200	<0.00100	0.00425	<1.40	<1.40	<1.40						
	3/17/2016	0.35	0.00253	0.00315	0.0123	<2.34	<2.34	<2.34						
	10/5/2016	0.13	0.00347	<0.00200	0.0138	<1.50	<1.50	<1.50						
	3/14/2017	1.25	<0.0500	<0.0500	<0.0500	<1.50	<1.50	<1.50						
	9/13/2017	0.0364	<0.00200	<0.00200	<0.00400	<1.50	<1.50	<1.50						
	1/16/2018	0.2060	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	0.0248	36.20	295	2.80	3.04	
	9/11/2018	0.0437	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<0.0011	49.20	224	0.10	0.47	
	1/16/2019	0.00724	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<1.10	49.60	236		0.944	
	11/22/2019	<0.00100	<0.00100	<0.00100	<0.00200	<0.10	<0.50	<0.50						
	4/15/2020	0.41	0.0011	<0.00021	0.011	2.1	0.16 J	0.39						
	11/10/2020	0.68	0.0038 J	<0.00021	<0.0087	--	--	--						
	8/12/2021	0.693	0.00283	0.000420 J	<0.0390	1.63	0.0721 J	--						
	12/2/2021	0.000346 J	<0.000412	<0.000160	0.00253	--	--	--						
	6/14/2022	0.000245 J	<0.000412	<0.000160	<0.000510	0.0631 J	0.0815 J	--						
	11/17/2022	0.681	0.0081	0.0156 B	0.064	0.064	0.174 B	--						
	7/26/2023	0.0693	<0.00412	<0.00160	<0.00510	0.847 J	0.174 B	--						
	11/9/2023				Dry									
	9/3/2025				Dry									
	11/13/2025	0.0426	<0.000412	<0.000160	0.00963	--	--	--						
	6/16/2005	0.0039	0.0026	<0.001	0.001									
	6/27/2005	<0.001	<0.001	<0.001	<0.001									
	9/21/2005	<0.001	<0.001	<0.001	<0.001									
	12/9/2005	0.076	0.117	0.0272	0.0981									
	7/2/2008	0.0699	0.0025	0.0009	0.0022	0.043	0.11							
	9/18/2008	0.0016	0.0011	0.0003 J	0.0009 J	<0.02	<0.033							
	2/11/2009	0.0002 J	<0.0002	<0.0002	<0.0006	<0.02	<0.031							
	7/16/2009	0.018	0.0002 J	0.0019	0.0009 J	0.087	0.64							
	7/13/2010	0.13	0.038	0.0061	0.018	0.37	0.13							
	1/27/2011	0.005	0.0028	<0.0010	<0.0030	<0.0500	0.025 J							
	7/14/2011	0.00139	<0.0020	<0.0010	<0.0010	<1.5	<1.5							
	7/14/2011	0.001	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50						
	10/17/2012	0.00695	0.00613	<0.00160	<0.00100	<1.50	<1.50	<1.50						
	1/23/2013	0.2502	0.0128	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	7/24/2013	0.00289	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
	3/5/2014	0.03470	0.00420	<0.00100	<0.00100	<1.34	<1.34	<1.34						
	10/17/2014	0.00786	0.00451	<0.00100	<0.00100	<1.48	<1.48	<1.48						
	10/11/2014	0.00667	0.00391	<0.00100	<0.00100	<1.48	<1.48	<1.48						
	3/26/2015	0.00276	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	3/26/2015	0.00293	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	10/14/2015	0.0107	0.00510	<0.00100	<0.00100	<1.40	<1.40	<1.40						
	10/14/2015	0.0136	0.00473	<0.00100	<0.00100	<1.41	<1.41	<1.41						
	3/17/2016	0.0960	0.0266	<0.00200	0.00364	<2.35	<2.35	<2.35						
	10/5/2016	0.0512	0.0188	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	3/14/2017	0.00938	0.00241	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	9/12/2017	0.0414	0.00365	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	3/15/2018	0.0022	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
	9/11/2018	0.0214	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
	1/17/2019	0.7840	0.07960	0.00727	0.02060	<1.50	<1.50	<1.50						
	11/22/2019	0.0730	0.00150	<0.00150	<0.00150	<0.10	<0.48	<0.48						
	9/15/2020	1.9	0.19	0.042	0.051	9.9	0.10 J	0.32						
	11/11/2020	0.16	0.014	0.00036 J	0.026	--	--	--						
	8/12/2021	5.47	0.811	0.0460	0.329	15.2	--	0.106						
	1/2/2021	0.860	0.180	0.00782	0.0854	--	--	--						
	6/14/2022	0.0122	0.0238	0.99	3.86	73.0	0.0824 J	--						
	11/17/2022	1.64	0.0408 B	0.0118 B	0.0681	--	--	--						
	7/26/2023	0.720	0.0340	<0.00160	0.0443	2.75	0.324	--						
	11/9/2023	0.483	0.0484	<0.000800	0.0378	--	--	--						
	9/3/2025	1.29	0.0525	0.0052	0.0831	4.33	--	--						
	11/13/2025	2.00	0.119	0.0130	0.0758 B	--	--	--						

Appendix D
 Cumulative Groundwater Analytical Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 Lea County, New Mexico



Sample ID, No.	Date	NMWQCC Other Standards for Domestic Water Supply ²												
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Mn	Fe	Nitrate
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
		0.005	1	0.7	0.62	--	--	--	--	--	--	--	--	
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
		4.25	0.11	<0.1	<0.1									
	6/16/2005	<0.001	<0.001	<0.001	<0.001									
	7/27/2005	<0.001	<0.001	<0.001	<0.001									
	9/22/2005	0.0568	0.0769	0.0182	0.0724									
	12/9/2005	0.0073	0.0024	0.001	0.0023	0.035	0.095							
	9/18/2008	0.0029	0.0017	0.0004 J	0.0012 J	<0.02	<0.03							
	2/11/2009	0.0003 J	0.0002 J	<0.0002	<0.0006	<0.02	<0.03							
	7/16/2009	0.012	<0.0002	0.0016	0.0007 J	0.063	0.13							
	7/14/2011	0.0151	0.0074	0.00156	<0.00100	<1.5	<1.5							
	10/17/2012	0.0215	0.00969	<0.00100	<0.00100	<1.50	<1.50							
	1/23/2013	0.00283	0.00313	<0.00100	<0.00100	<1.50	<1.50							
	7/24/2013	0.209	0.0797	<0.00640	0.0177	<1.44	<1.44							
	3/5/2014	1.500	0.4420	0.0489	0.1610	3.710	<1.34							
	10/17/2014	0.026	0.0094	<0.00100	0.0021	<1.48	<1.48							
	3/20/2015	0.073	0.0246	<0.00100	0.00597	<1.50	<1.50	<1.50						
	3/20/2015	0.071	0.0239	<0.00100	0.00613	<1.50	<1.50	<1.50						
	10/15/2015	0.206	0.0752	0.00361	0.0177	<1.41	<1.41	<1.41						
	3/17/2016	0.028	0.00591	<0.00200	<0.00200	<2.34	<2.34	<2.34						
	10/5/2016	0.105	0.0335	<0.00200	0.0122	<1.50	<1.50	<1.50						
	3/14/2017	0.0282	0.00889	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	9/13/2017	0.387	0.0113	<0.00200	0.0193	<1.50	<1.50	<1.50	<0.0011	61.20	202	0.60	0.08	
	3/13/2018	0.08150	0.00708	<0.0020	<0.0020	<1.50	<1.50	<1.50				0.00	1.21	
	9/12/2018			Dry										
	1/16/2019	3.980	1.21 D	0.0322	0.109	2.81	<1.50	2.81	<1.10	64.3	288		<0.100	
	4/14/2020	2.2		0.0391	0.0288	9.1	0.091 J	<0.15						
	11/11/2020	0.88	0.035	0.0065 J	0.045	--	--	--						
	8/12/2021	5.79	0.266	0.0700	0.237	15.8	0.293	--						
	12/2/2021	1.16	0.189	0.0131	0.0841 B	--	--	--						
	6/14/2022	0.0287	0.0116 J	1.22	0.083	9.89	0.203	--						
	11/17/2022	<0.00019	<0.000412	0.000695 B	0.00150 J	--	--	--						
	7/26/2023	1.80	0.0830	0.0122	0.0924	8.74	1.87	--						
	7/26/2023	1.51	0.0810	0.0123	0.0928	8.58	1.97	--						
	11/9/2023			Dry										
	9/3/2025			Dry										
	11/3/2025	<0.000190	<0.000412	<0.000160	<0.000510	--	--	--						
	6/16/2005	0.0348	0.0034	<0.001	<0.001									
	7/26/2005													
	9/20/2005													
	12/8/2005	0.0206	0.0887	0.0159	0.0858									
	7/1/2008													
	6/16/2005	0.713	0.0266	<0.02	<0.02									
	7/26/2005	0.546	0.917	0.0902	0.485									
	9/20/2005	0.312	0.454	0.0344	0.236									
	12/8/2005	0.103	0.172	<0.02	0.115									
	5/17/2007	0.086	0.0076	0.0005	0.003	0.3	0.088							
	10/2/2007	0.068	0.003	0.0003	0.0009			1.3						
	6/30/2008	0.67	0.025	0.0028	0.02	1.7	0.067**							
	9/17/2008	0.110	0.0041 J	0.0019 J	0.0061 J	0.34	<0.032							
	2/3/2009	0.041	0.0019	0.0004 J	0.0014 J	0.095	<0.056							
	7/15/2009	0.034	<0.0002	0.0013	<0.0006	0.14	0.09 J							
	1/27/2010	0.048	0.0032	<0.0002	0.0016 J	0.26	0.11							
	7/12/2010	0.077	0.0029	<0.0002	0.0016 J	0.26	0.063 J							
	1/27/2011	0.36	0.0096	<0.0010	0.0064	0.914	0.073							
	7/13/2011													
	10/15/2012													
	1/23/2013	2.41	<0.0500	<0.0250	<0.0250	4.97	<1.50	4.97						
	7/23/2013													
	3/5/2014	0.348	<0.00200	<0.00100	0.00273	4.51	<1.34	4.51						
	10/16/2014													
	3/20/2015	4.07	<0.040	<0.0200	0.0568	8.01	<1.50	8.01						
	10/12/2015													
	3/16/2016	4.82	<0.00150	<0.00200	<0.00200	5.27	<2.34	5.27						
	10/5/2016													
	3/15/2017	0.125	0.00243	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	9/12/2017													
	3/13/2018	2.05	<0.100	<0.100	<0.100	5.50	3.02	8.52						
	4/14/2020													
	11/11/2020													
	8/12/2021													
	12/2/2021													
	6/14/2022													
	11/16/2022													
	7/26/2023													
	11/9/2023													
	9/3/2025													
	11/13/2025													

Appendix D
 Cumulative Groundwater Analytical Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 Lea County, New Mexico



Sample ID No.	Date	NMWQCC Other Standards for Domestic Water Supply ²												
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Mn	Fe	Nitrate
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
		0.005	1	0.7	0.62	--	--	--	--	--	--	--	--	
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
		<0.005	<0.005	<0.005	<0.005	<0.02	<0.028	<0.096						
	6/15/2005	<0.005	<0.005	<0.005	<0.005	<0.02	<0.028	<0.096						
	5/16/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028	<0.096						
	9/27/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028	<0.096						
	7/2/2008	0.013	0.0036	0.0007	0.0008	0.039	0.044							
	9/17/2008	0.0074	0.0042	0.0005 J	0.0025 J	0.039 J	0.031							
	2/11/2009	0.0004 J	0.0002 J	<0.0002	<0.0006	<0.02	<0.031							
	7/14/2009	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.079 J							
	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.063 J							
	7/7/2010	0.0002 J	0.0003 J	<0.0002	<0.0006	<0.02	0.11							
	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050							
	7/13/2011				Insufficient Water									
	10/15/2012				Dry									
	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	7/23/2013				Dry									
	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
	10/16/2014				Dry									
	3/17/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	10/13/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40						
	3/15/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
	10/5/2016				Dry									
	3/16/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	3/16/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	9/12/2017				Dry									
	3/16/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
	11/20/2019				Dry									
	4/13/2020				Insufficient Water									
	8/11/2021				Dry									
	12/2/2021				Dry									
	6/13/2022				Dry									
	11/16/2022				Dry									
	7/26/2023				Dry									
	11/9/2023				Dry									
	9/3/2025				Dry									
	11/13/2025				Dry									
	6/15/2005	<0.005	<0.005	<0.005	<0.005	<0.02	<0.028	<0.096						
	5/16/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028	<0.096						
	10/1/2007	<0.002	<0.002	<0.002	<0.006	<0.02	<0.028	<0.096						
	7/2/2008	0.0081	0.0025	0.0006	0.0006	0.026	<0.029							
	9/17/2008	0.024	0.013	0.001	0.0057	0.11	<0.031							
	2/11/2009	0.0012	0.0005 J	0.0003 J	0.0009 J	<0.02	<0.031							
	7/15/2009	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.11							
	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.054 J							
	7/7/2010	0.0002 J	0.0003 J	<0.0002	<0.0006	<0.02	0.073 J							
	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050							
	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5							
	10/15/2012				Dry									
	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	7/23/2013				Dry									
	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
	10/16/2014				Dry									
	3/17/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	10/13/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40						
	3/15/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.35	<2.35	<2.35						
	10/5/2016				Dry									
	3/16/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	9/12/2017				Dry									
	3/16/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
	3/16/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
	11/20/2019				Dry									
	4/13/2020				Dry									
	8/11/2021				Dry									
	12/2/2021				Dry									
	6/13/2022				Dry									
	11/16/2022				Dry									
	7/26/2023				Dry									
	11/9/2023				Dry									
	9/3/2025				Dry									
	11/13/2025				Dry									

Appendix D
 Cumulative Groundwater Analytical Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 Lea County, New Mexico



Sample ID No.	Date	NMWQCC Other Standards for Domestic Water Supply ²												
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Mn	Fe	Nitrate
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
		0.005	1	0.7	0.62	--	--	--	--	--	--	--	--	--
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		<0.005	<0.005	<0.005	<0.005	<0.02	<0.028	<0.096						
	12/6/2005	<0.005	<0.005	<0.005	<0.005	<0.02	<0.028	<0.096						
	5/15/2007	0.0015	<0.002	<0.002	<0.006	<0.02	<0.028	<0.096						
	10/1/2007	0.0005	<0.002	<0.002	<0.006	<0.02	<0.028	<0.096						
	6/30/2008	0.038	0.0073	0.0014	0.0014	0.093	0.28							
	9/16/2008	0.0012	0.0008 J	0.0005 J	0.0011 J	<0.02	0.093 J							
	2/4/2009	0.0078	0.0022	0.0007 J	0.0019 J	0.032 J	<0.031							
	7/13/2009	<0.0002	<0.0002	<0.0002	<0.0006	0.035 J	0.11							
	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.056 J							
	7/7/2010	<0.0002	0.0002 J	<0.0002	<0.0006	<0.02	0.062 J							
	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050							
	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5							
	10/15/2012					Insufficient Water								
	1/22/2013					Insufficient Water								
	7/23/2013	<0.0010	<0.0020	<0.0010	<0.0010	1.44	1.44	1.44						
	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
	10/16/2014					Insufficient Water								
	3/17/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	10/13/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40						
	3/16/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.35	<2.35	<2.35						
	10/5/2016					Insufficient Water								
	3/16/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	9/12/2017					Dry								
	3/14/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
	1/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	4/14/2020	<0.00018	<0.00020	<0.00021	<0.00037	<0.023	<0.046	<0.26						
	8/11/2021					Dry								
	12/2/2021					Dry								
	6/14/2022					Dry								
	11/16/2022					Dry								
	7/26/2023					Dry								
	11/9/2023					Dry								
	9/3/2025					Dry								
	11/13/2025					Dry								
	6/15/2005	<0.005	<0.005	<0.005	<0.005									
	5/15/2007	<0.002	<0.002	<0.002	<0.006	<0.02	0.038	<0.093						
	10/1/2007	<0.002	<0.002	<0.002	<0.006	<0.02	0.038	<0.093						
	7/1/2008	0.018	0.0031	0.001	0.0025	0.063	0.089							
	9/16/2008	0.0019	0.0012	<0.0006	<0.0015	<0.02	0.13							
	2/4/2009	0.011	0.003	0.0009 J	0.0024 J	0.041 J	0.042 J							
	7/14/2009	0.0003 J	<0.0002	0.0002 J	<0.0006	0.033 J	0.079 J							
	1/27/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.037 J							
	7/12/2010	<0.0002	0.0003 J	<0.0002	<0.0006	<0.02	0.051 J							
	1/27/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050							
	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5							
	10/15/2012					Insufficient Water								
	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
	10/16/2014					Dry								
	3/17/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	10/13/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40						
	3/15/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.35	<2.35	<2.35						
	10/5/2016					Insufficient Water								
	3/16/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	9/12/2017					Dry								
	3/14/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
	1/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	4/14/2020	<0.00018	<0.00020	<0.00021	<0.00037	<0.023	<0.046	0.24 J						
	8/11/2021					Dry								
	12/2/2021					Dry								
	6/14/2022					Dry								
	11/16/2022					Dry								
	7/26/2023					Dry								
	11/9/2023					Dry								
	9/3/2025					Dry								
	11/13/2025					Dry								

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Sample ID No.	Date	NMWQCC Other Standards for Domestic Water Supply ²												
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Mn	Fe	Nitrate
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
		0.005	1	0.7	0.62	--	--	--	--	--	--	--	--	
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L						
		<0.005	<0.005	<0.005	<0.005									
	6/15/2005	<0.005	<0.005	<0.005	<0.005									
	5/15/2007	<0.002	<0.002	<0.002	<0.002	<0.02	<0.028							
	10/1/2007	<0.002	<0.002	<0.002	<0.002									
	6/30/2008	0.042	0.004	0.0011	0.0032	0.11	0.034**							
	9/16/2008	0.0023	0.0013	0.0006 J	0.0014 J	0.022	0.13							
	2/4/2009	0.013	0.0031 J	0.001 J	0.0025 J	0.053	0.036 J							
	7/15/2009	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.071 J							
	1/25/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.25							
	7/6/2010	0.0003 J	0.0003 J	<0.0002	<0.0006	<0.02	0.1							
	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.050	<0.050							
	7/13/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50						
	10/16/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.44	<1.44	<1.44						
	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
	10/16/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48						
	3/19/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	10/13/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
	3/15/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.35	<2.35	<2.35						
	3/15/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.35	<2.35	<2.35						
	10/5/2016	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	3/16/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	9/12/2017				Insufficient Water									
	3/14/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
	1/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	4/15/2020	<0.00018	<0.00020	<0.00021	<0.00037	<0.023	<0.045	<0.15						
	8/11/2021				Insufficient Water									
	12/2/2021				Dry									
	6/14/2022				Dry									
	11/16/2022				Dry									
	7/26/2023				Dry									
	11/9/2023				Dry									
	9/3/2025				Dry									
	11/13/2025				Dry									
	6/15/2005	<0.001	<0.001	<0.001	<0.001									
	7/26/2005	0.0059	<0.005	<0.005	<0.005									
	9/21/2005	0.0076	<0.001	<0.001	<0.001									
	12/6/2005	<0.001	<0.001	<0.001	<0.001			<0.095						
	5/17/2007	0.0013	0.0007	0.0002	<0.006	0.032	0.067							
	10/2/2007	<0.002	<0.002	<0.002	<0.006									
	6/30/2008	0.011	0.0031	0.0008	0.0009	0.056	0.05							
	9/17/2008	0.0014	0.0011	0.0007 J	0.0016 J	<0.02	0.073							
	2/5/2009	0.0051	0.0025	0.0006 J	0.0014 J	0.031 J	0.034 J							
	7/13/2009	<0.0002	<0.0002	<0.0002	<0.0006	0.079	0.32							
	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.041 J							
	7/8/2010	<0.0002	<0.0003 J	<0.0002	<0.0006	<0.02	0.062 J							
	1/26/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	<0.050						
	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50						
	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50						
	10/15/2012				Dry									
	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00351	<1.50	<1.50	<1.50						
	7/23/2013				Dry									
	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
	10/16/2014				Dry									
	3/19/2015	0.00295	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	10/13/2015	<0.0010	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
	3/16/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
	10/5/2016				Dry									
	3/14/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	9/12/2017				Dry									
	3/14/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50						
	1/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	4/14/2020	<0.00018	<0.00020	<0.00021	<0.00037	<0.023	<0.049	<0.28						
	8/11/2021				Dry									
	12/2/2021				Dry									
	6/14/2022				Dry									
	11/16/2022				Dry									
	7/26/2023				Dry									
	11/9/2023				Dry									
	9/3/2025				Dry									
	11/13/2025				Dry									

Appendix D
 Cumulative Groundwater Analytical Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 Lea County, New Mexico



Sample I.D. No.	Date	NMWQCC Other Standards for Domestic Water Supply ²												
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Mn	Fe	Nitrate
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
		0.005	1	0.7	0.62	--	--	--	--	--	--	--	--	
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
		<0.00350	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
	7/25/2005	<0.00350	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
	9/21/2005	<0.01020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
	12/8/2005	<0.00450	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
	5/14/2007	<0.00720	<0.002	<0.002	<0.002	0.043	0.13	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	
	10/2/2007	<0.00120	0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
	6/30/2008	<0.04000	0.01	<0.005	0.011	0.15	0.280**	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	
	9/16/2008	<0.00020	<0.0002	<0.0002	<0.0006	<0.02	<0.031	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	
	2/2/2009	<0.00020	0.0012	0.0005 J	0.0011 J	<0.02	0.063 J	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	
	7/13/2009	<0.00020	<0.0002	0.0003 J	<0.0006	0.1	0.36	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	
	1/26/2010	<0.00020	<0.0002	<0.0002	<0.0006	<0.02	<0.031	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	
	7/8/2010	<0.00020	<0.0003 J	<0.0002	<0.0006	<0.02	0.053 J	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	
	1/27/2011	<0.00100	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	
	7/13/2011													
	10/15/2012													
	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	
	7/23/2013													
	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	
	10/16/2014													
	3/19/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	
	10/12/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41	<1.41	<1.41	<1.41	<1.41	<1.41	
	3/17/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34	<2.34	<2.34	<2.34	<2.34	<2.34	
	3/17/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34	<2.34	<2.34	<2.34	<2.34	<2.34	
	10/4/2016	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	
	3/14/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	
	9/12/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	
	3/13/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	
	1/15/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<1.10	49.20	250.00	<1.50	1.13	
	11/22/2019	<0.00100	<0.00100	<0.00100	<0.00200	<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	4/16/2020	<0.00018	<0.00020	<0.00021	<0.00037	<0.023	<0.046	0.32	<0.023	<0.046	0.32	<0.023	<0.046	
	11/10/2020	<0.00018	<0.00020	<0.00021	<0.00037	--	--	--	--	--	--	--	--	
	9/12/2021	<0.000190	<0.000412	<0.000160	<0.000510	<0.0314	<0.0222	--	<0.0314	<0.0222	--	<0.0314	<0.0222	
	12/2/2021	<0.000190	<0.000412	<0.000160	<0.000510	--	--	--	--	--	--	--	--	
	6/13/2022	<0.000190	<0.000412	<0.000160	<0.000510	<0.0314	0.0548 J J3	--	<0.0314	0.0548 J J3	--	<0.0314	0.0548 J J3	
	11/17/2022	<0.000190	0.000452 B J	0.000322 B J	<0.000510	--	--	--	--	--	--	--	--	
	7/27/2023	<0.000190	<0.000412	<0.000160	<0.000510	<0.0314	0.0486 J	--	<0.0314	0.0486 J	--	<0.0314	0.0486 J	
	11/9/2023				Insufficient Water									
	9/4/2025	<0.000190	<0.000412	<0.000160	<0.000510	<0.0594	0.110		<0.0594	0.110		<0.0594	0.110	
	11/3/2025	<0.000190	<0.000412	<0.000160	<0.000510	--	--		--	--		--	--	
	6/15/2005	<1.92000	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
	7/25/2005	<0.17900	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
	9/19/2005	<0.00100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
	12/8/2005	<0.00100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
	5/14/2007	<0.00200	<0.002	<0.002	<0.002	<0.02	0.028	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
	9/27/2007	<0.00200	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
	6/17/2008	<0.00200	0.003	<0.002	<0.002	<0.006	<0.037	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
	9/16/2008	<0.00020	<0.0002	<0.0002	<0.0006	<0.02	<0.031	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
	2/2/2009	<0.00020	0.0033	0.0005 J	0.0011 J	<0.02	0.049 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
	7/13/2009	<0.00110	<0.0002	0.0003 J	<0.0006	0.31	4.7	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
	1/27/2010	<0.00020	<0.0002	<0.0002	<0.0006	<0.02	<0.031	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
	7/12/2010	<0.00020	0.0004 J	<0.0002	<0.0006	0.024 J	0.074 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
	1/27/2011	<0.00100	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
	7/14/2011	<0.00100	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	
	10/15/2012													
	1/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	
	7/23/2013													
	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	
	10/16/2014													
	3/19/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	
	10/13/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40	
	10/13/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41	<1.41	<1.41	<1.41	<1.41	<1.41	
	3/16/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34	<2.34	<2.34	<2.34	<2.34	<2.34	
	10/5/2016													
	3/15/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	
	9/12/2017													
	3/13/2018	<0.00200	<0.0020	<0.0020	<0.0020	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	
	1/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	
	1/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50	
	4/16/2020	<0.00018	<0.00020	<0.00021	<0.00037	<0.023	<0.046	<0.15	<0.023	<0.046				

Appendix D
 Cumulative Groundwater Analytical Data
 Chevron Environmental Remediation Company
 Lovington Paddock Remediation Site
 Lea County, New Mexico



Sample ID, No.	Date	NMWQCC Other Standards for Domestic Water Supply ²												
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Mn	Fe	Nitrate
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
		0.005	1	0.7	0.62	--	--	--	--	--	--	--	--	--
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		<0.0100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	7/25/2005	<0.0100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	9/21/2005	<0.0100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	12/6/2005	<0.0100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	5/14/2007	<0.00200	<0.002	<0.002	<0.006	<0.02	<0.028							
	9/27/2007	<0.0020	<0.002	<0.002	<0.006	<0.02	<0.028							
	6/17/2008	<0.00500	0.005	<0.003	0.005	<0.043	<0.062							
	9/15/2008	<0.00020	<0.0002	<0.0002	<0.0006	<0.02	<0.031							
	2/2/2009	<0.00020	0.0021	0.0003 J	0.0007 J	<0.02	0.048 J							
	7/14/2009	<0.00020	<0.0002	0.0003 J	<0.0006	0.16	0.68							
	1/26/2010	<0.00020	<0.0002	<0.0002	<0.0006	<0.02	0.031 J							
	7/12/2010	<0.00020	0.0004 J	<0.0002	<0.0006	0.046 J	0.420 J							
	1/27/2011	<0.0100	<0.0010	<0.0010	<0.0030	<0.0500	<0.050							
	7/13/2011													
	10/15/2012													
	1/22/2013	<0.0100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	7/23/2013													
	3/4/2014	<0.0100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
	10/16/2014													
	3/19/2015	<0.0100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	3/19/2015	<0.0100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	10/15/2015	<0.0100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
	3/16/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.35	<2.35	<2.35						
	3/16/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.35	<2.35	<2.35						
	10/5/2016													
	3/15/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	9/12/2017													
	3/13/2018													
	1/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	4/16/2020	<0.00018	<0.00020	<0.00021	<0.00037	<0.023	<0.044	0.23 J						
	8/11/2021													
	12/2/2021													
	6/13/2022													
	11/16/2022													
	7/26/2023													
	11/9/2023													
	9/3/2025													
	11/13/2025													
	8/12/2005	<0.001	<0.001	<0.001	<0.001									
	9/19/2005	<0.001	<0.001	<0.001	<0.001									
	12/8/2005	<0.001	<0.001	<0.001	<0.001									
	5/14/2007	<0.002	<0.002	<0.002	<0.006	<0.02	0.028							
	9/27/2007	<0.002	<0.002	<0.002	<0.006									
	6/17/2008	<0.002	<0.002	<0.002	<0.006	<0.061	<0.110							
	9/15/2008	<0.00020	<0.0002	<0.0002	<0.0006	<0.02	<0.039							
	2/2/2009	0.0002 J	0.0005 J	0.0008 J	0.0016 J	0.028 J	0.074 J							
	7/14/2009	<0.0002	<0.0002	<0.0002	<0.0006	0.049 J	0.13							
	1/27/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.041 J							
	7/8/2010	<0.0002	0.0004 J	<0.0002	<0.0006	<0.02	0.076 J							
	1/26/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.050	<0.050	<0.050						
	7/13/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50						
	10/17/2012	<0.0100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	1/23/2013	<0.0100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	7/23/2013	<0.0100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
	3/4/2014	<0.0100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
	10/16/2014	<0.0100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48						
	3/19/2015	<0.0100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	10/14/2015	<0.0100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40						
	3/17/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
	10/4/2016	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	3/15/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	9/12/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	3/13/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	9/12/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	9/12/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	1/15/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	11/21/2019	<0.0100	<0.00100	<0.00100	<0.00100	<0.10	<0.48	<0.48						
	4/16/2020	<0.00018	<0.00020	<0.00021	<0.00037	<0.023	<0.046	0.30						
	11/10/2020	<0.00018	<0.00020	<0.00021	<0.00037	--	--	--						
	8/12/2021	<0.000190	<0.000412	<0.000160	<0.000510	<0.0314	<0.0222	--						
	12/2/2021	<0.000190	<0.000412	<0.000160	<0.000510	--	--	--						
	6/13/2022	<0.000190	<0.000412	<0.000160	<0.000510	<0.0314	0.0305 J J3	--						
	11/17/2022	<0.000190	<0.000412	0.000326 B J	<0.000510	--	--	--						
	7/27/2023	<0.000190	<0.000412	<0.000160	<0.000510	0.0338 J	<0.0247	--						
	11/9/2023	0.000442 J	<0.000412	<0.000160	<0.000510	--	--	--						
	9/4/2025	<0.000190	<0.000412	<0.000160	<0.000510	<0.0594	<0.0605	--						
	11/13/2025	<0.000190	<0.000412	<0.000160	<0.000510	--	--	--						

Appendix D
 Cumulative Groundwater Analytical Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 Lea County, New Mexico



Sample ID No.	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Mn	Fe	Nitrate
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
NMWQCC Other Standards for Domestic Water Supply²														
		0.005	1	0.7	0.62	--	--	--	--	--	--	--	--	--
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L						
MW-S	7/27/2006	<0.0005	<0.0007	<0.0008	<0.0008	0.028	0.053							
	5/14/2007	<0.002	<0.002	<0.002	<0.006	<0.02	0.39							
	10/1/2007	<0.002	<0.002	<0.002	<0.006									
	6/30/2008	0.039	0.0032	0.0005	0.0021	0.11	<0.043							
	9/16/2008	0.004	0.0018	0.0008	0.0019	J	0.029	0.35						
	2/4/2009	0.022	<0.0048	0.0011	0.0031	0.072	0.044	J						
	7/15/2009	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.050	J						
	1/25/2010	<0.0002	<0.0002	<0.0002	<0.0006	0.023	J	0.18						
	7/6/2010	0.0003	J	0.0002	<0.0002	<0.02	0.074	J						
	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050							
	7/13/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.5	<1.5							
	10/16/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50							
	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50							
	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.42	<1.42							
	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34							
	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
	10/16/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48						
	3/19/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	10/15/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
	3/16/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
	10/5/2016	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	10/5/2016	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	3/15/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	9/12/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	9/12/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	1/14/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<0.0011	78.50	171	0.70	0.10	
	9/11/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<0.0011	71.20	178	0.50	0.00	
	1/15/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<1.10	79.60	171.00			2.57
	11/22/2019	<0.00100	<0.00100	<0.00100	<0.00200	<0.10	<0.50	<0.50						
	4/14/2020	0.00048	J	<0.00020	<0.00021	<0.00037	<0.023	<0.048	<0.15					
	6/12/2021	<0.000190	<0.000412	<0.000160	<0.000160	<0.00010	<0.0222	--						
	6/14/2022	<0.000190	<0.000412	<0.000160	<0.000160	<0.00010	<0.0314	0.0575	J					
7/27/2023	<0.000190	<0.000412	<0.000160	<0.000160	<0.00010	<0.0314	<0.0247	--						
11/9/2023														
9/4/2025	<0.000190	<0.000412	<0.000160	<0.000160	<0.00010	<0.0594	<0.0605	--						
11/13/2025														
MW-T	7/27/2006	<0.36000	0.12	0.037	0.15	1.3	0.86							
	9/18/2008	<0.00490	0.0028	0.0008	0.002	J	0.027	0.11						
	2/11/2009	0.0004	J	0.0003	J	<0.0006	<0.02	0.033	J					
	7/16/2009	0.0071	<0.0002	0.0013	0.0030	J	0.044	0.13						
	7/13/2010	0.84	0.18	0.026	0.055	2.4	0.070	J						
	1/27/2011	12.0	1.5	0.2	0.61	22.6	0.41							
	7/13/2011	4.49	0.448	0.0208	0.0576	8.17	<1.5	<0.093						
	10/17/2012	12.8	<0.200	0.260	0.418	15.5	<1.50	15.5						
	1/23/2013	10.8	<0.100	0.104	0.195	12.2	<1.50	12.2						
	7/24/2013	13.1	0.168	0.284	0.519	21.3	<1.43	21.3						
	3/5/2014	3.95	0.0311	0.09950	0.17700	12.3	<1.34	12.3						
	10/17/2014	12.3	<0.100	0.17000	0.35100	15.3	<1.48	15.3						
	3/26/2015	13.4	<0.100	0.234	0.480	16.4	<1.50	16.4						
	10/15/2015	14.9	0.1570	0.34000	0.6590	15.4	<1.41	15.4						
	3/17/2016	11.5	0.0970	0.189	0.316	15.4	<1.41	15.4						
	10/5/2016	9.54	0.0170	0.181	0.329	12.1	<1.50	12.1						
	3/14/2017	11.7	<0.200	0.613	0.670	1.98	<1.50	1.98						
	9/12/2017	2.23	0.2980	<0.0456	0.735	2.18	<1.50	<1.50						
	3/15/2018	9.42	<0.400	<0.400	<0.400	18.80	<1.50	18.80	0.234	0.578	365	0.20	0.14	
	9/11/2018	12.2	0.0670	0.242	0.330	15.30	<1.50	15.30	0.0072	23.900	340	0.00	0.08	
	1/16/2019	11.4	0.1690	0.129	0.217	5.92	<1.50	5.92	<1.10	4.65	375.00			<0.100
	11/22/2019	7.60	0.0770	0.130	0.018	11.00	<0.50	11.00						
	4/14/2020	8.0	0.080	0.21	0.014	34	0.13	J						
	4/14/2020	7.9	0.076	0.20	0.014	32	0.11	J						
	11/11/2020	11		0.36	0.27	--	--	--						
	11/11/2020	10		0.12	0.38	0.28	--	--						
	8/12/2021	8.28	0.325	0.222	0.199	22.9	0.189	--						
	12/2/2021	9.96	<0.0824	0.105	0.297	J	--	--						
	6/14/2022	0.936	0.0561	0.0058	0.0492	4.33	--	--						
	11/17/2022	10.5	0.159	B	0.512	--	--	--						
	11/17/2022	10.9	0.172	--	0.392	--	--	--						
	7/26/2023	6.93	Q	0.319	Q	31.4	0.322	--						
11/9/2023	10.7	0.774	0.188	0.883	--	--	--							
11/9/2023	10.6	0.813	0.194	0.876	--	--	--							
9/3/2025	9.78	0.0626	0.447	1.07	28.9	0.254	--							
9/3/2025	9.52	0.0649	0.433	1.04	28.3	0.243	--							
11/13/2025	7.28	0.347	0.298	0.780	--	--	--							
11/13/2025	7.26	0.318	0.288	0.789	--	--	--							

Appendix D
 Cumulative Groundwater Analytical Data
 Chevron Environmental Management Company
 Lovington Paddock Remediation Site
 Lea County, New Mexico

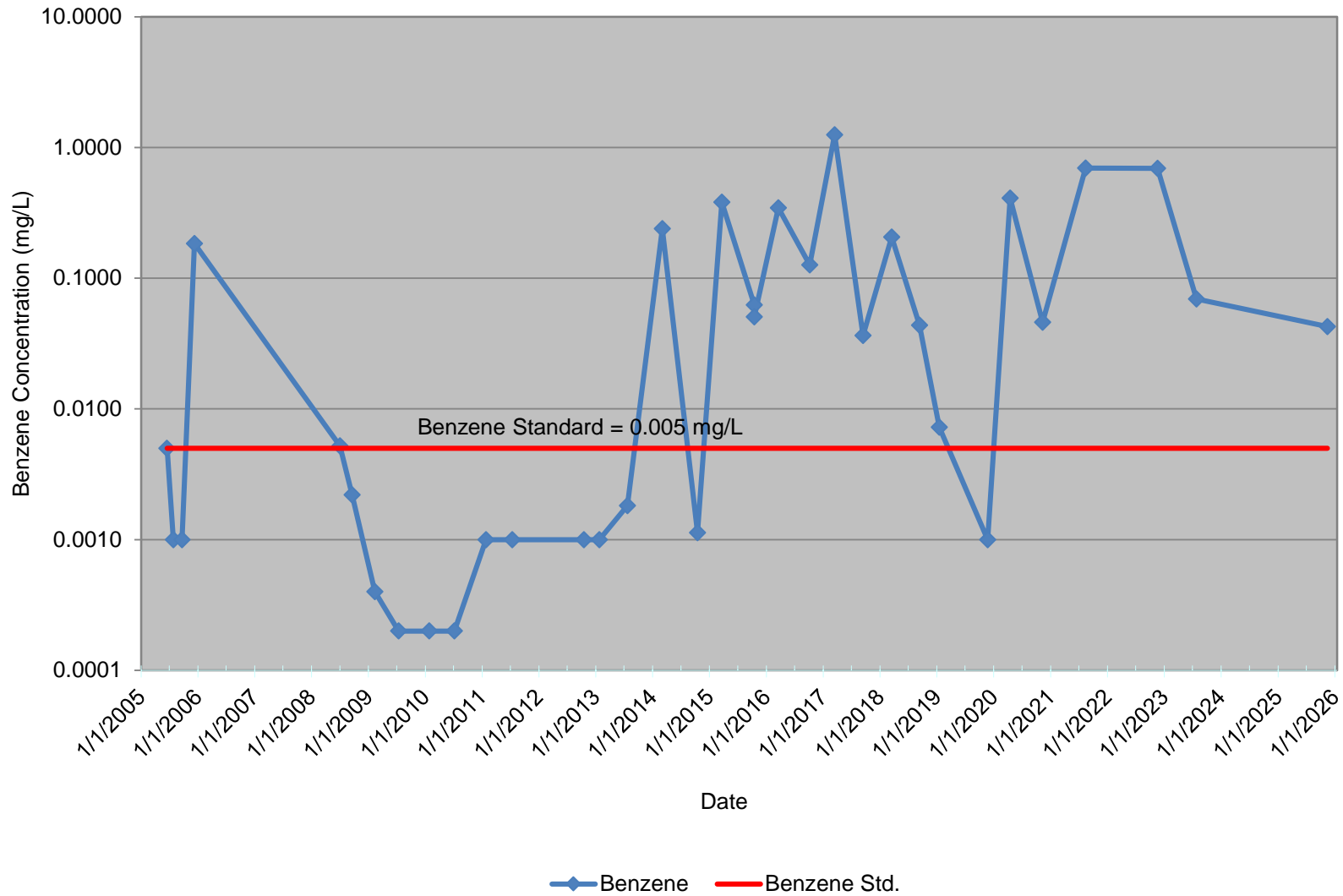


Sample ID No.	Date	NMWQCC Other Standards for Domestic Water Supply ²												
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO	TPH-DRO	Total TPH	Methane	Sulfate	Alkalinity	Mn	Fe	Nitrate
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
		0.005	1	0.7	0.62	--	--	--	--	--	--	--	--	--
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		<0.005	0.009	<0.008	<0.008	0.027	0.180*							
	4/24/2007	<0.005	0.009	<0.008	<0.008	0.027	0.180*							
	5/16/2007	<0.0002	<0.0002	<0.0002	<0.0006	0.027	0.18							
	9/27/2007	<0.002	<0.002	<0.002	<0.006									
	6/30/2008	0.004	0.0018	0.0009	0.0019	0.028	0.057**							
	9/17/2008	<0.0002	0.0003 J	0.0002 J	<0.0006	0.025 J	<0.032							
	2/3/2009	<0.0002	0.0021	0.0006 J	0.0013 J	<0.02	0.060 J							
	7/14/2009	<0.0002	<0.0002	<0.0002	<0.0006	0.034 J	0.1							
	1/26/2010	<0.0002	<0.0002	<0.0002	<0.0006	<0.02	0.049 J							
	7/7/2010	<0.0002	0.0003 J	<0.0002	<0.0006	<0.02	0.070 J							
	1/25/2011	<0.0010	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	<0.0500						
	7/14/2011	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50						
	10/16/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	7/23/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.42	<1.42	<1.42						
	3/4/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
	10/16/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48						
	3/19/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	10/14/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.40	<1.40	<1.40						
	3/16/2016	<0.00200	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
	10/6/2016	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	3/15/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	3/15/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	9/12/2017													
	3/15/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	11/7/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	4/16/2020	<0.0018	<0.0020	<0.0021	<0.0037	<0.46	<0.045	0.34						
	8/12/2021	<0.000190	<0.000412	<0.000160	<0.000510	<0.0314	<0.0222	--						
	6/13/2022													
	11/16/2022													
	7/26/2023													
	11/9/2023													
	9/3/2025													
	11/13/2025	<0.000190	<0.000412	<0.000160	<0.000510	--	--	--						
	4/24/2007	<0.00500	<0.007	<0.008	<0.008	0.028*	0.310*							
	5/16/2008	<0.00100	<0.0002	<0.0002	<0.0006	0.028	0.31							
	9/27/2007	<0.00200	<0.002	<0.002	<0.006									
	6/30/2008	<0.01100	0.0027	0.0012	0.0025	0.044	0.093**							
	9/16/2008	<0.00450	<0.0002	<0.0002	<0.0006	0.023 J	0.064 J							
	2/2/2009	<0.00020	0.0078	0.0003 J	0.0007 J	0.023 J	0.066 J							
	7/13/2009	<0.0020	<0.0002	<0.0002	<0.0006	0.027 J	0.14							
	1/26/2010	<0.00020	<0.0002	<0.0002	<0.0006	<0.02	0.062 J							
	7/7/2010	<0.00020	0.0002 J	<0.0002	<0.0006	<0.02	0.070 J							
	1/25/2011	<0.00100	<0.0010	<0.0010	<0.0030	<0.0500	<0.050	<0.094						
	7/14/2011	<0.00100	<0.0020	<0.0010	<0.0010	<1.50	<1.50	<1.50						
	10/16/2012	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	1/22/2013	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50	<1.50						
	7/24/2013	<0.01050	<0.00200	<0.00100	<0.00100	<1.45	<1.45	<1.45						
	3/5/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
	3/5/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.34	<1.34	<1.34						
	10/17/2014	<0.00100	<0.00200	<0.00100	<0.00100	<1.48	<1.48	<1.48						
	3/16/2015													
	10/14/2015	<0.00100	<0.00200	<0.00100	<0.00100	<1.41	<1.41	<1.41						
	3/16/2016	<0.31400	<0.00150	<0.00200	<0.00200	<2.34	<2.34	<2.34						
	10/6/2016	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	3/15/2017	<0.03390	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	9/12/2017	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50						
	3/15/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<0.0011	17.20	366	0.00	0.00	
	9/12/2018	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	0.00175	31.60	255	0.00	0.00	
	1/15/2019	<0.00200	<0.00200	<0.00200	<0.00200	<1.50	<1.50	<1.50	<1.10	38.00	262			1.48
	1/22/2019	<0.00100	<0.00100	<0.00100	<0.00200	<0.10	<0.49	<0.49						
	4/15/2020	<0.00018	<0.00020	<0.00021	<0.00037	<0.46	<0.047	<0.16						
	8/12/2021	<0.000190	<0.000412	<0.000160	<0.000510	<0.0314	<0.0222	--						
	12/2/2021	<0.000190	<0.000412	<0.000160	<0.000510	--	--	--						
	6/13/2022	0.00246	<0.000412	<0.000160	<0.000510	0.0348 J	0.0650 J J3	--						
	11/17/2022	<0.00190	<0.000412	0.000311 J	<0.000510	--	--	--						
	7/27/2023	<0.000190	0.000426 J	0.000288 J	0.00257	0.117	0.0352 J	--						
	11/9/2023													
	9/3/2025													
	11/13/2025	<0.000190	<0.000412	<0.000160	<0.000510	--	--	--						

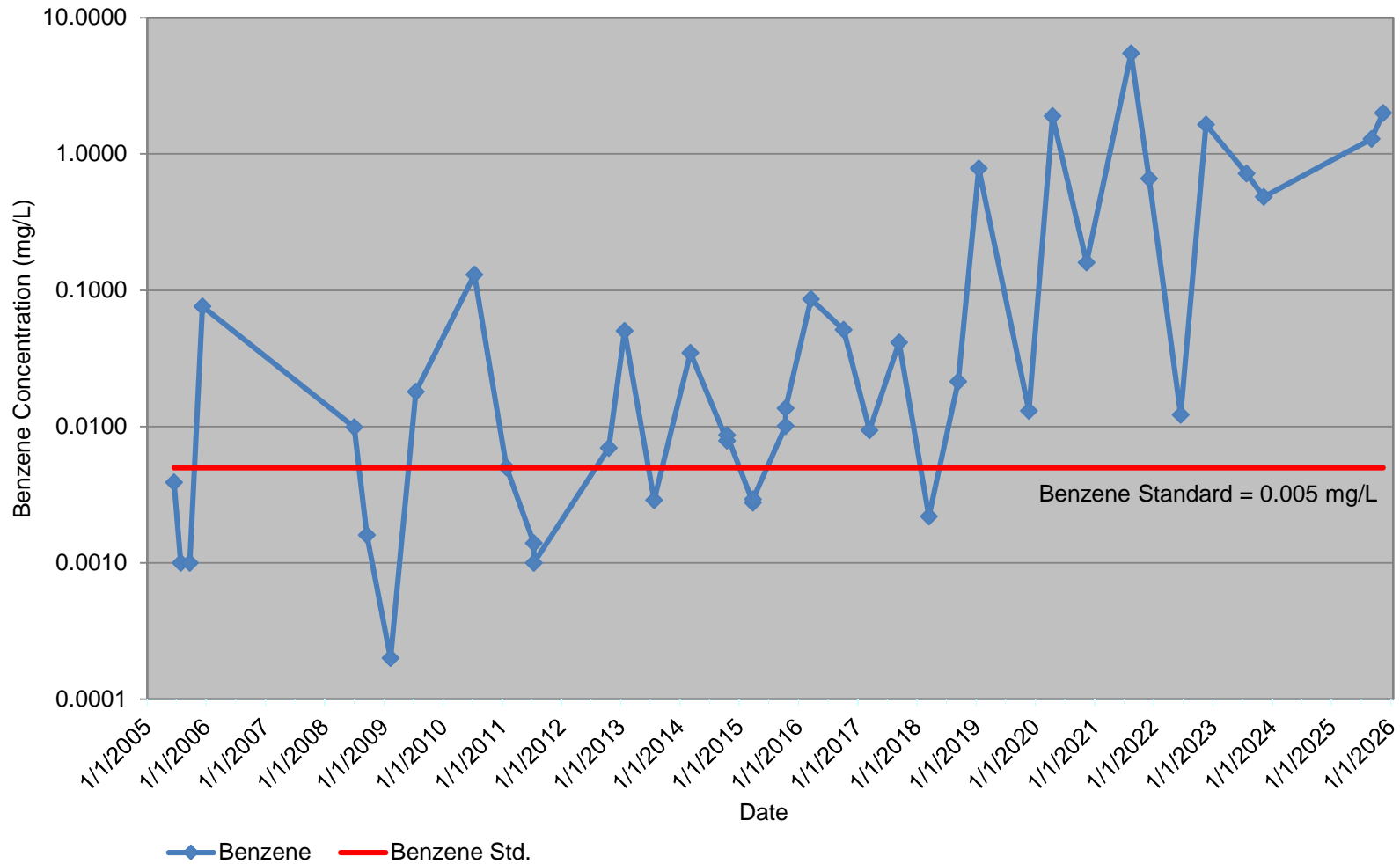
Appendix E

Charts of Benzene Concentration Trends

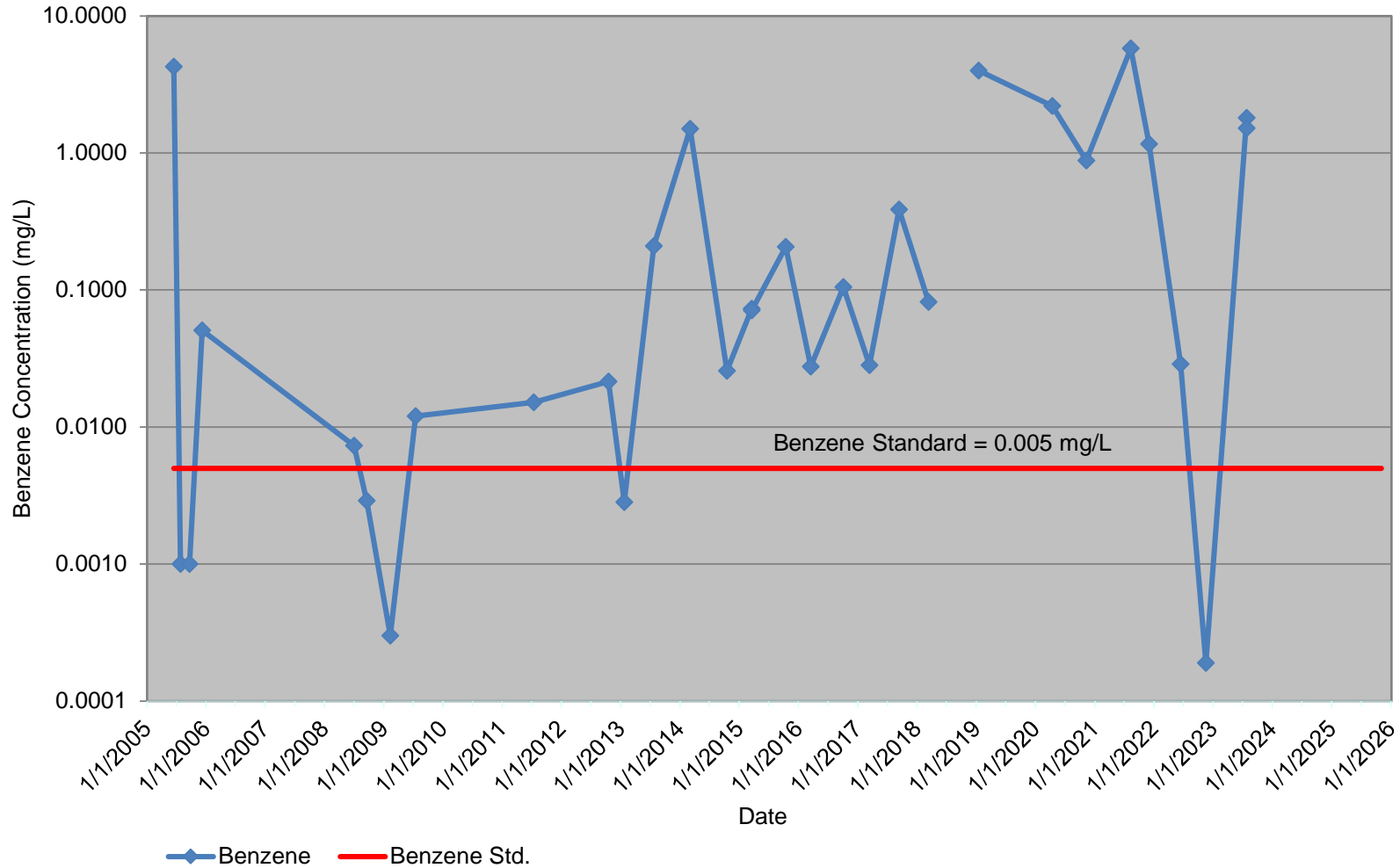
Chevron Environmental Management Company
Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
BW-1



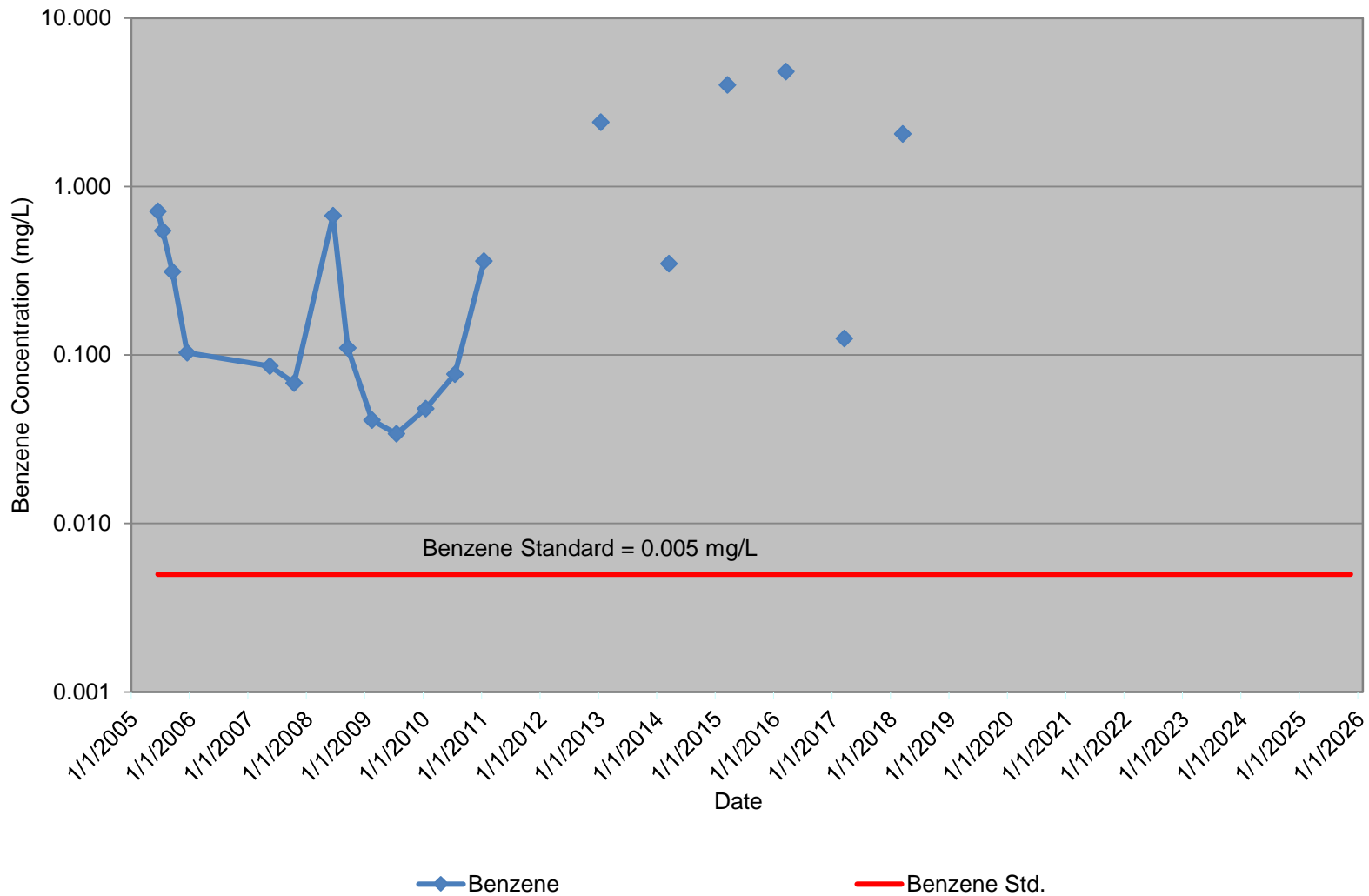
Chevron Environmental Management Company
Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
BW-2



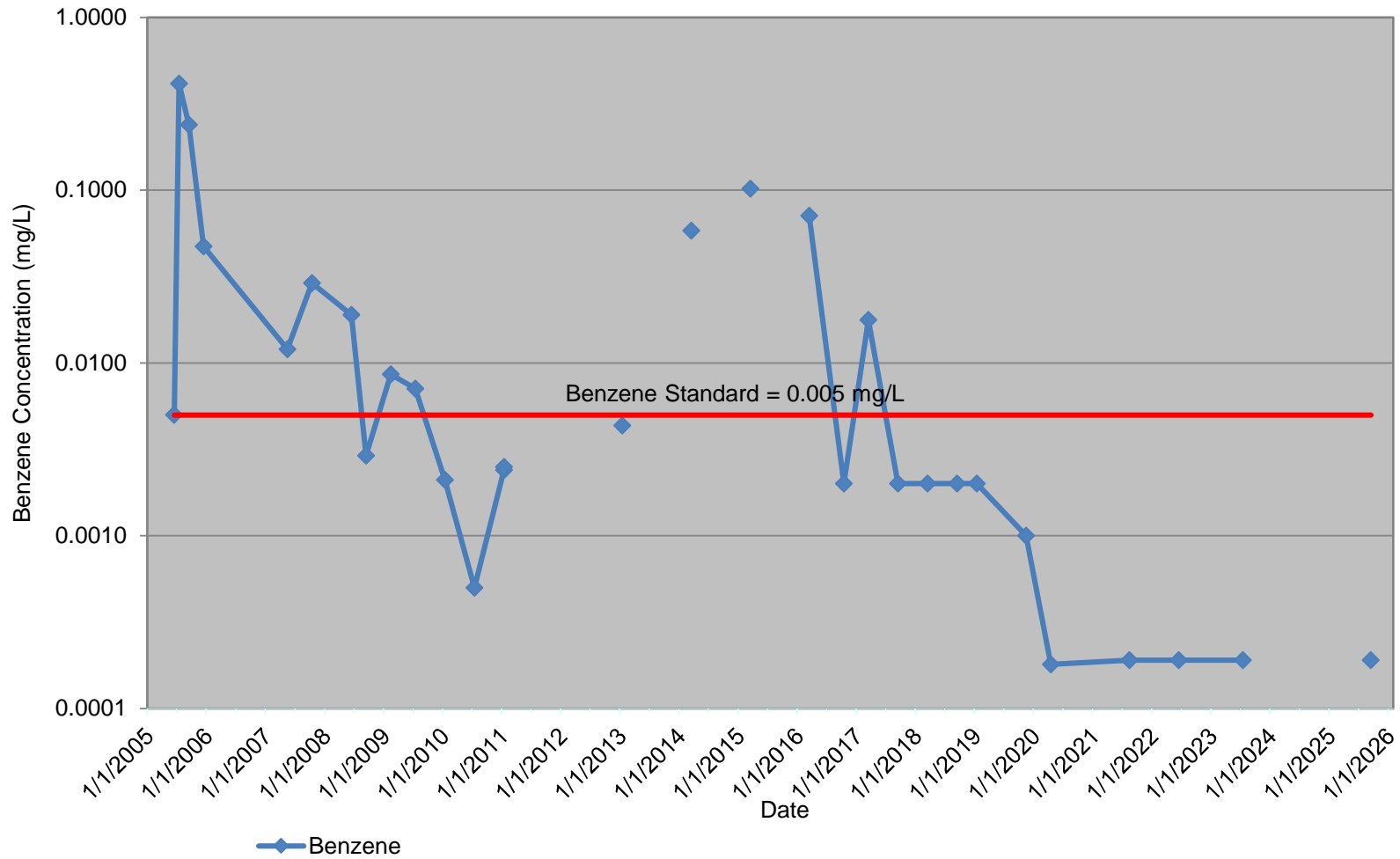
Chevron Environmental Management Company
Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
BW-3



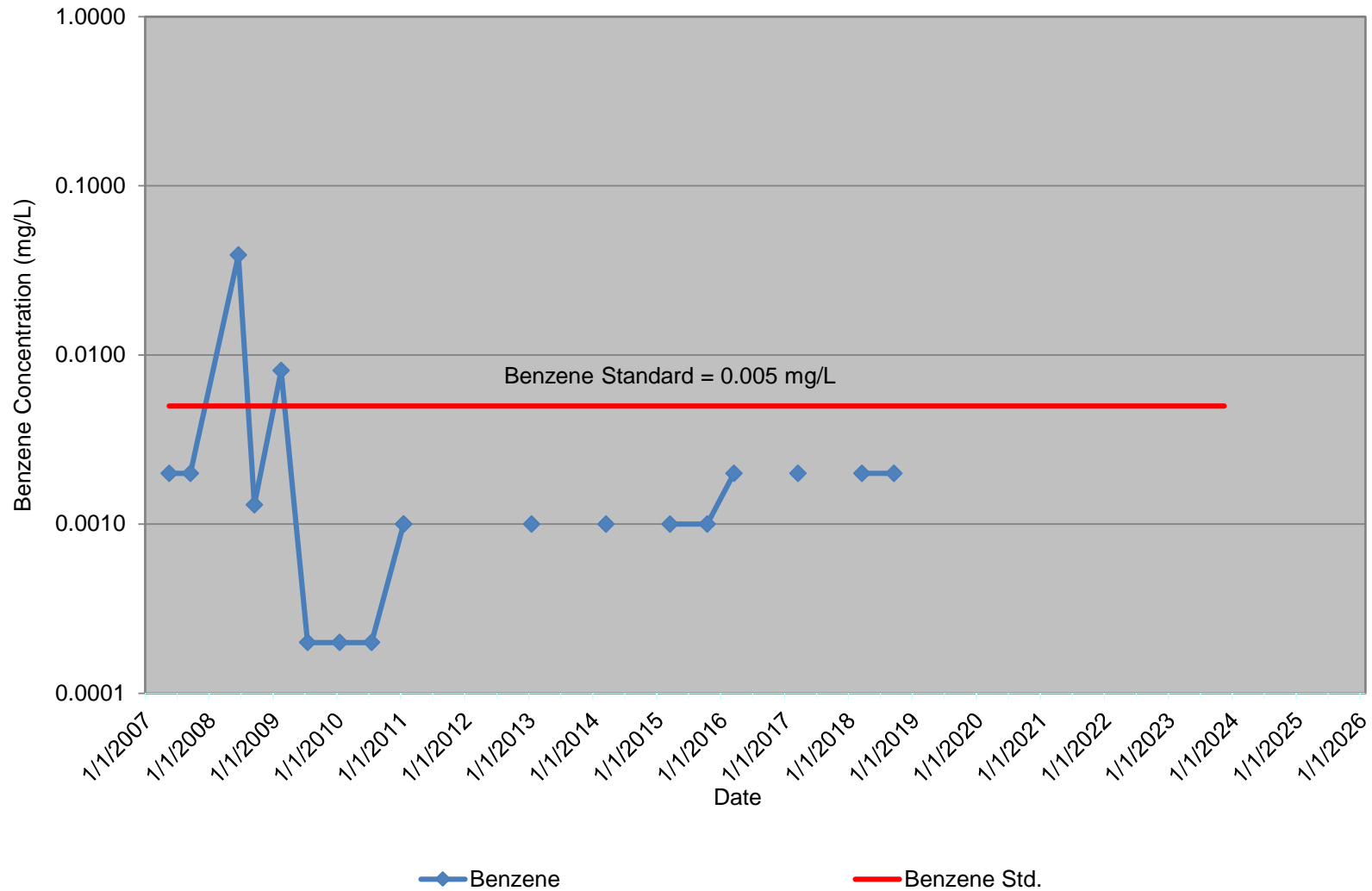
Chevron Environmental Management Company
Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
MW-B



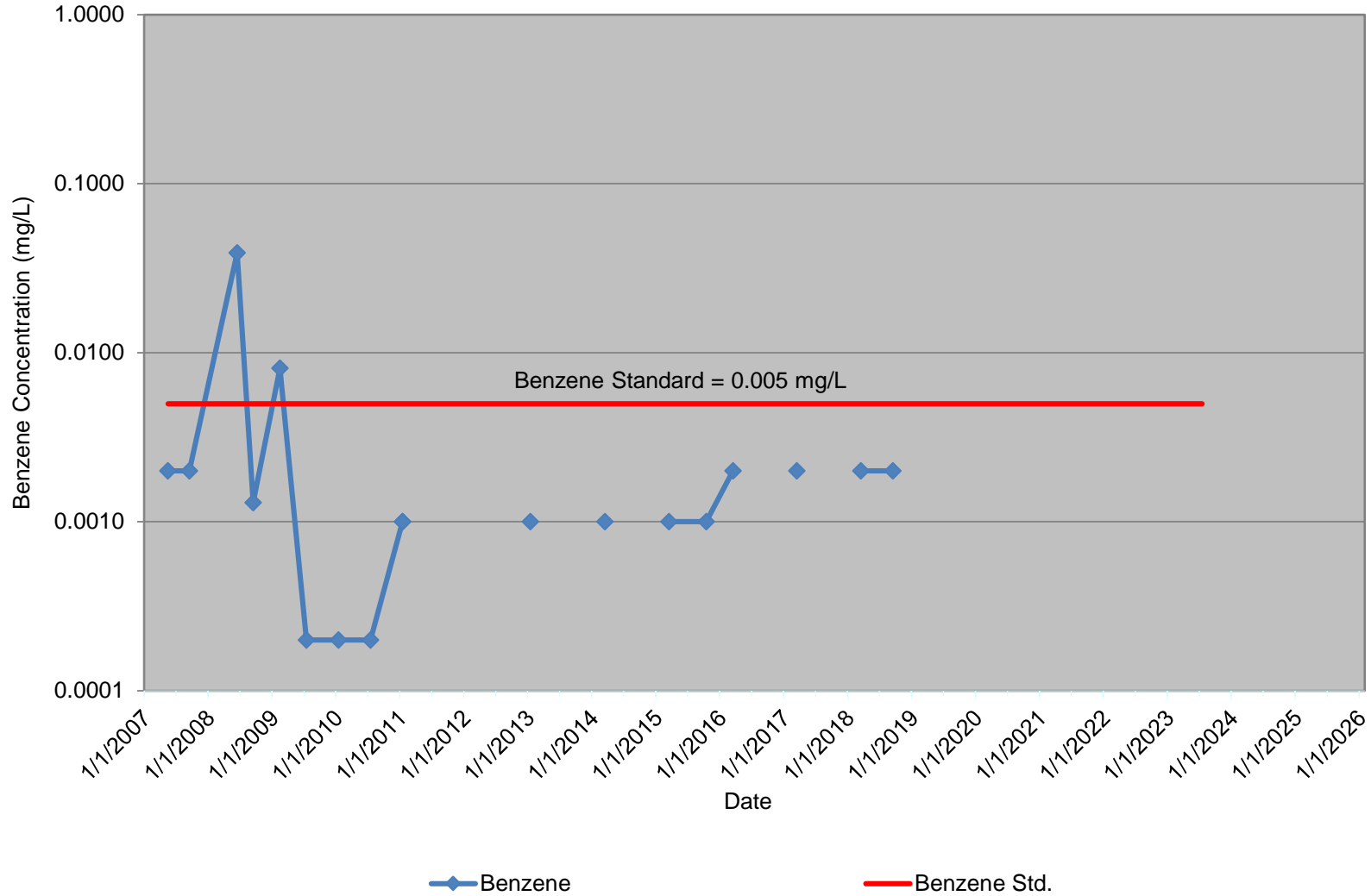
Chevron Environmental Management Company
Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
MW-C and MW-C-R



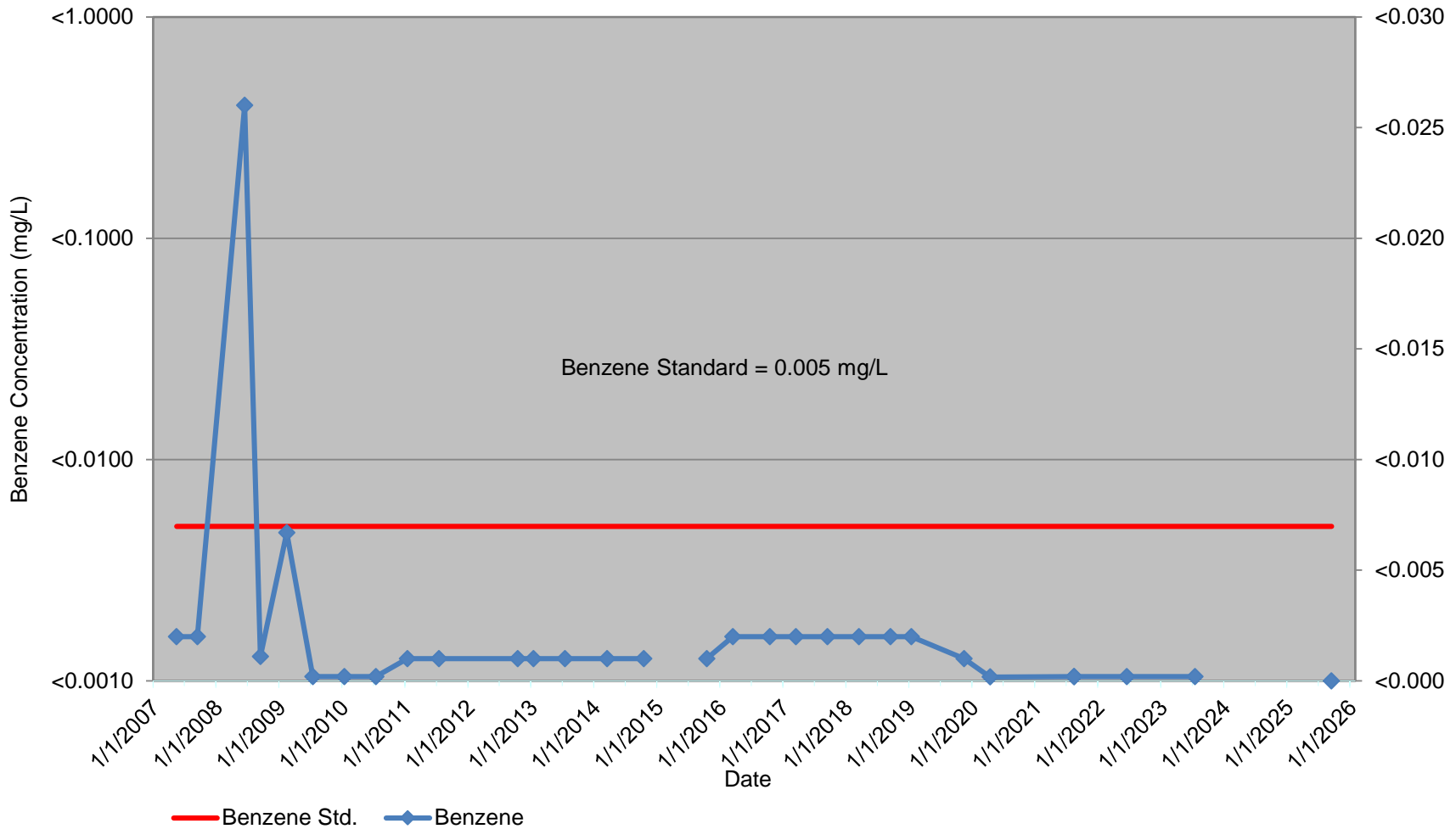
Chevron Environmental Management Company
Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
MW-D



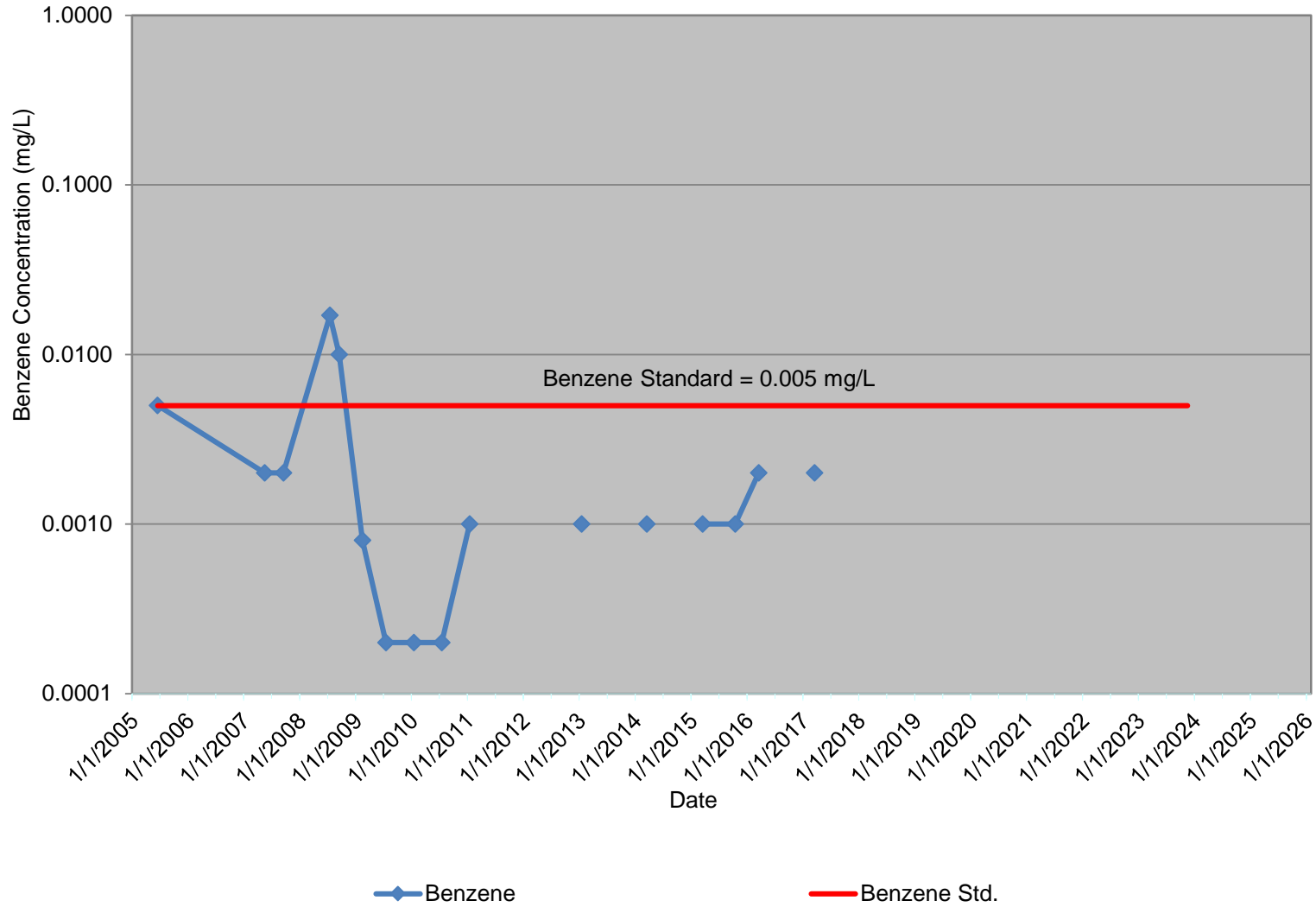
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Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
MW-D



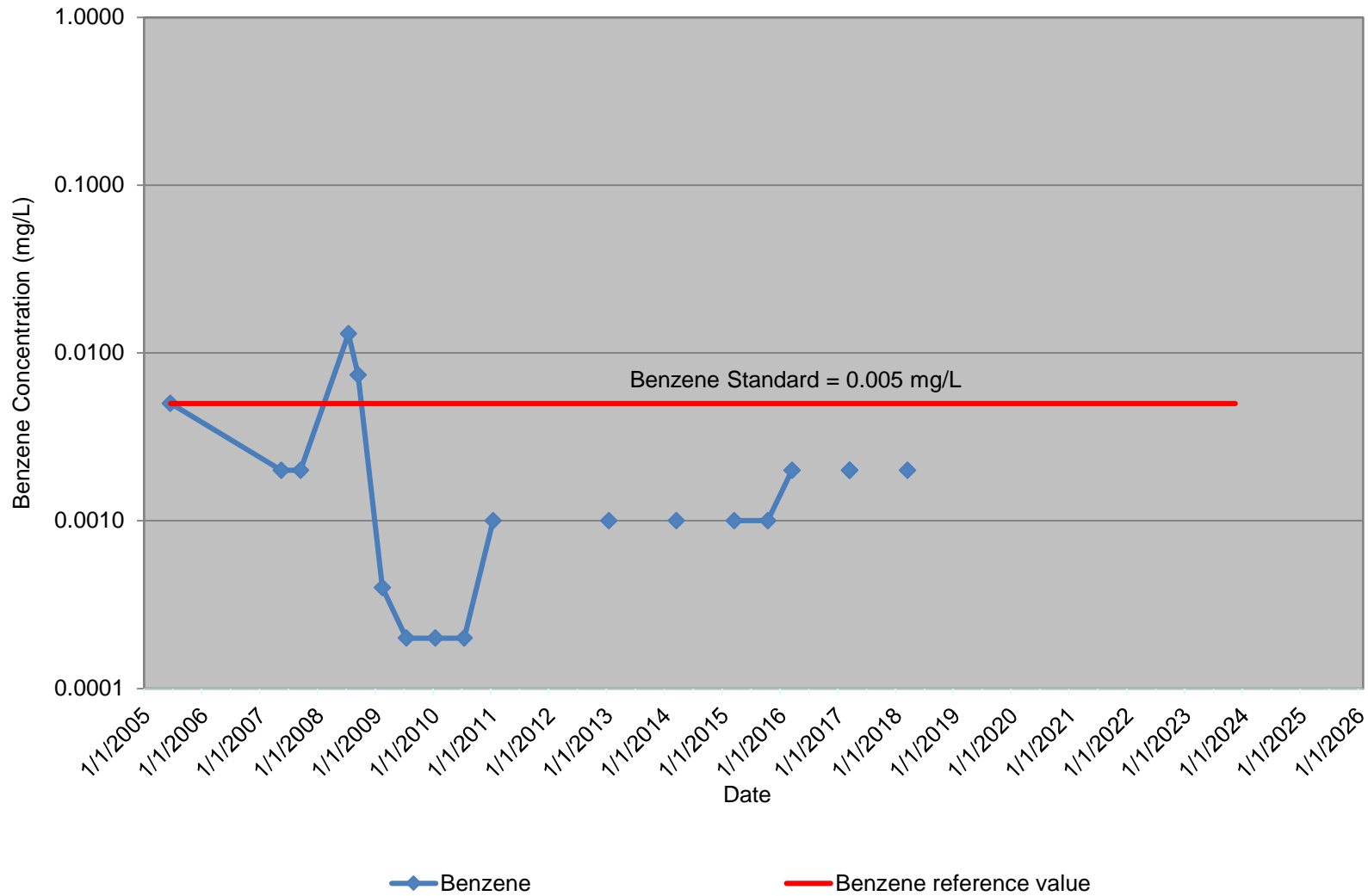
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Lovington Paddock Groundwater Remediation Site
Benzene in Groundwater
Lea County, NM
MW-D2



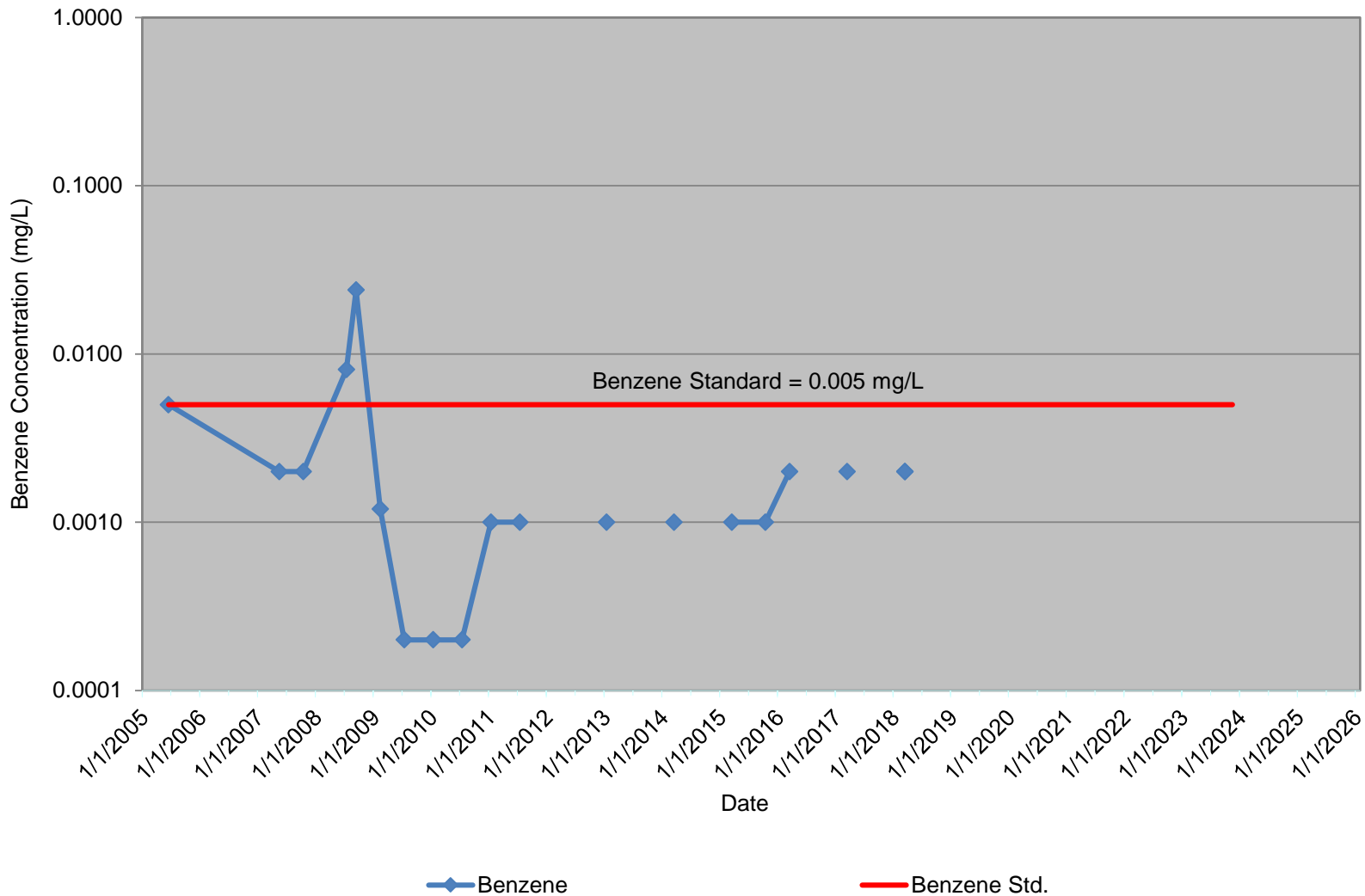
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Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
MW-E



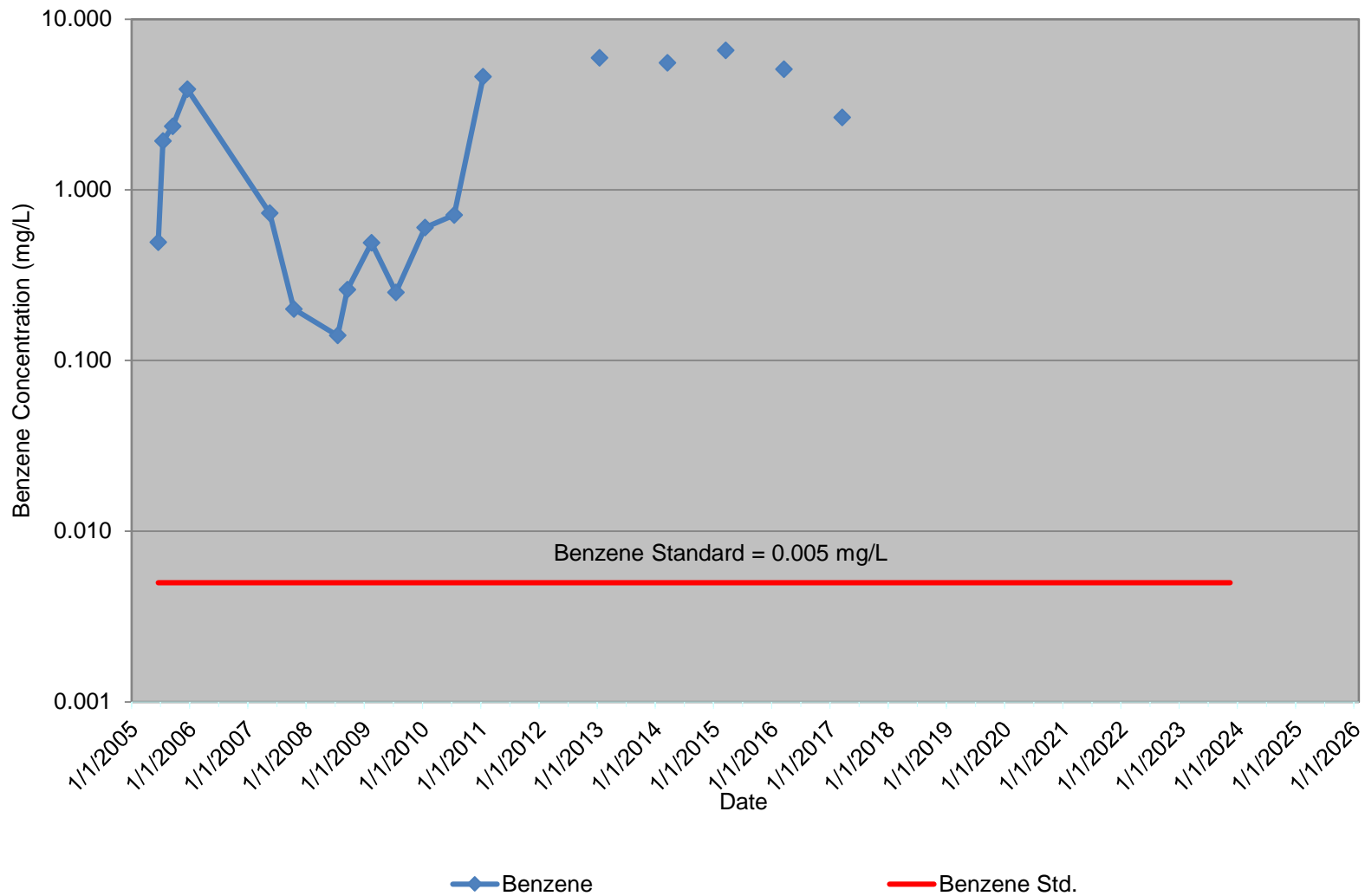
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Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
MW-F



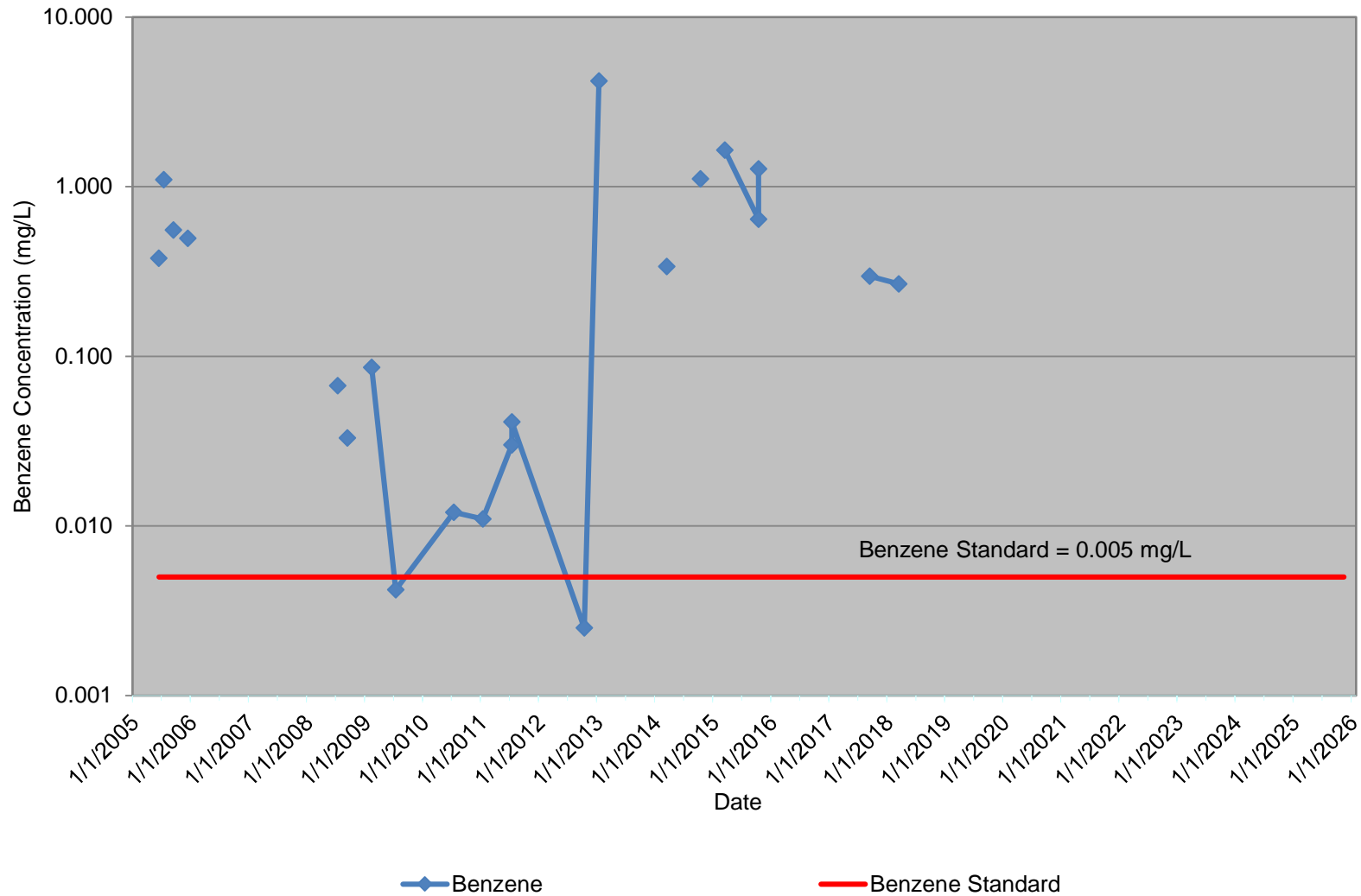
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Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
MW-G



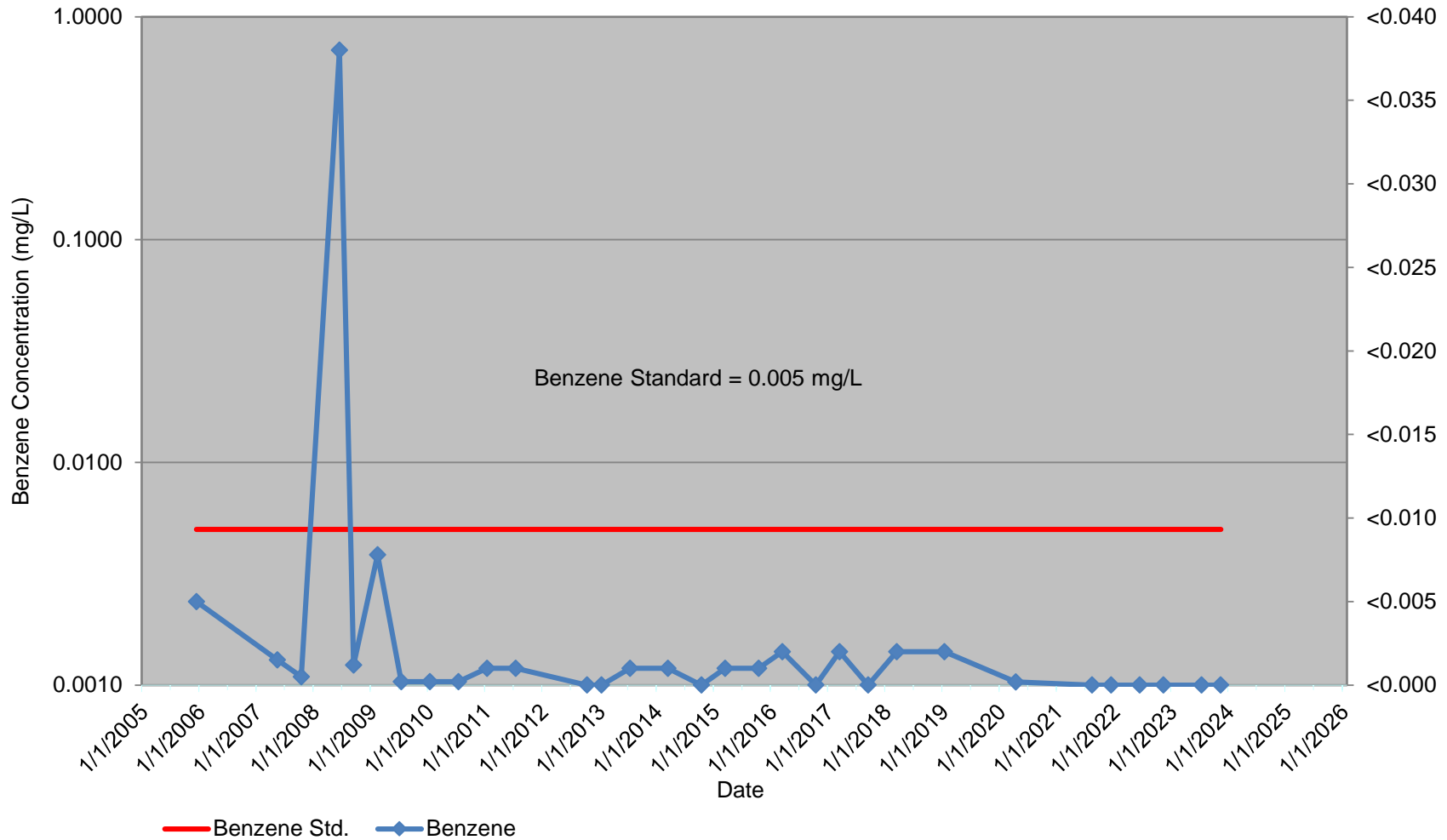
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Lovington Paddock Groundwater Remediation Site
Benzene in Groundwater
Lea County, NM
MW-H



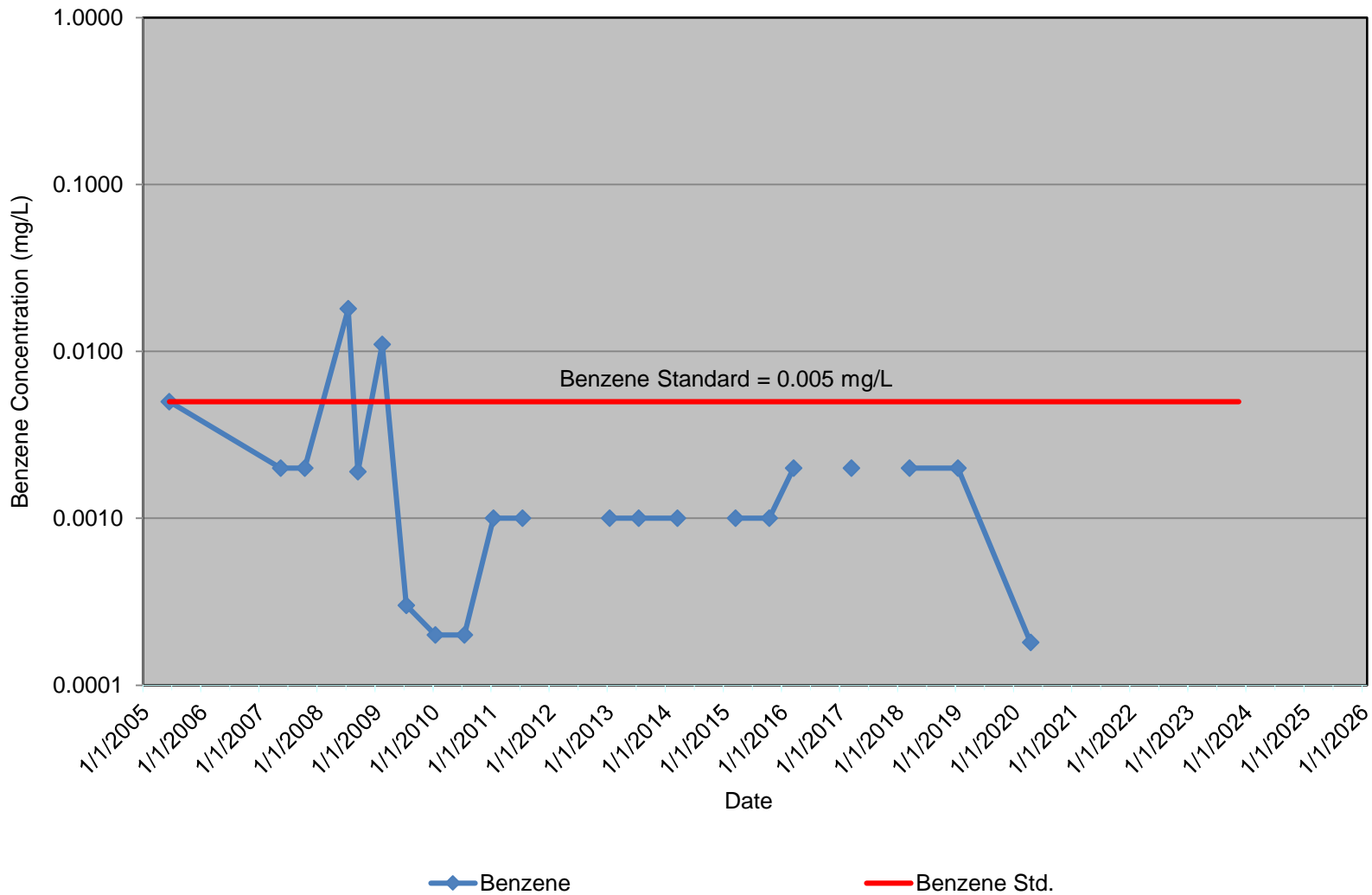
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Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
MW-I



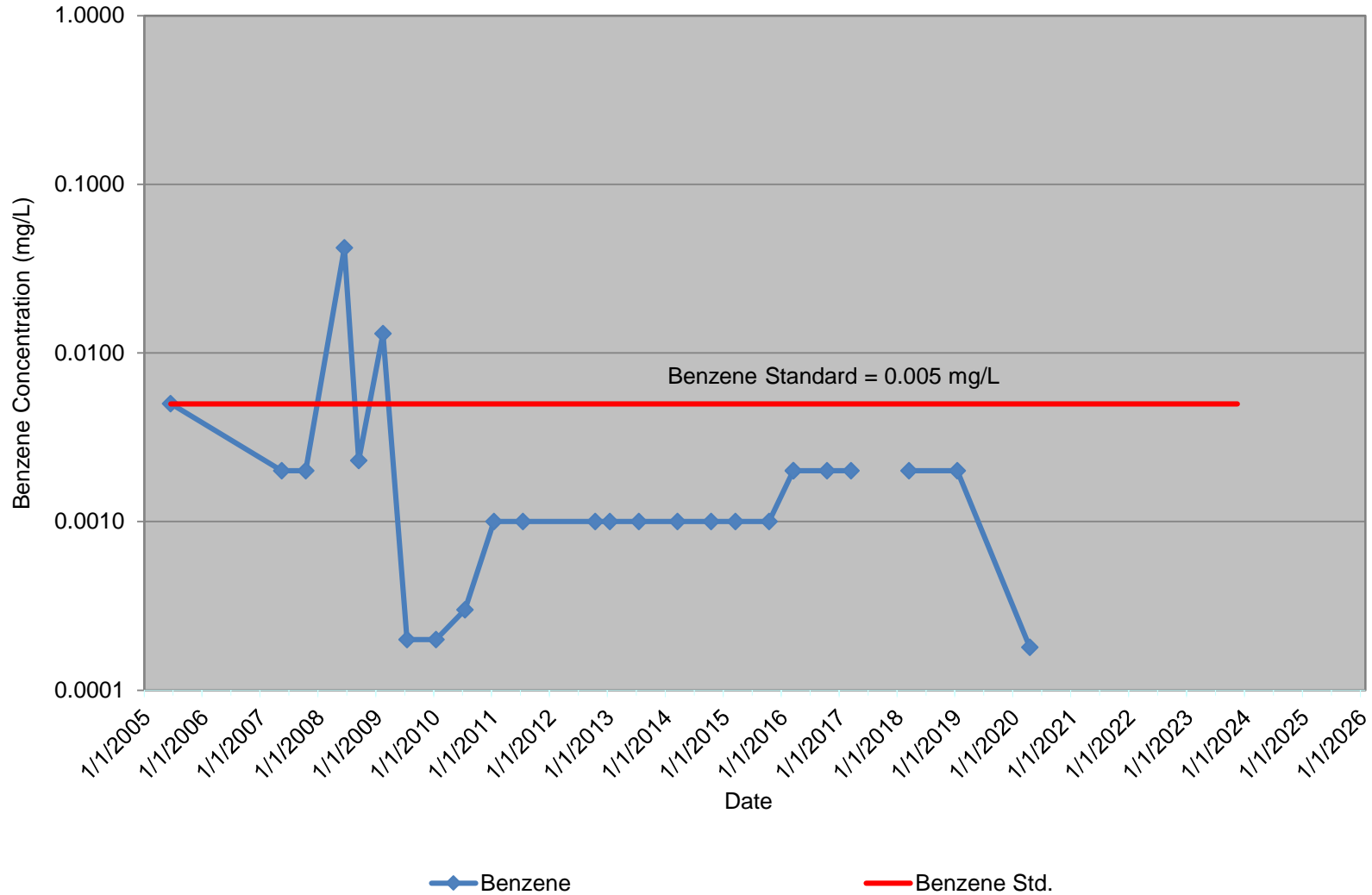
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Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
MW-J



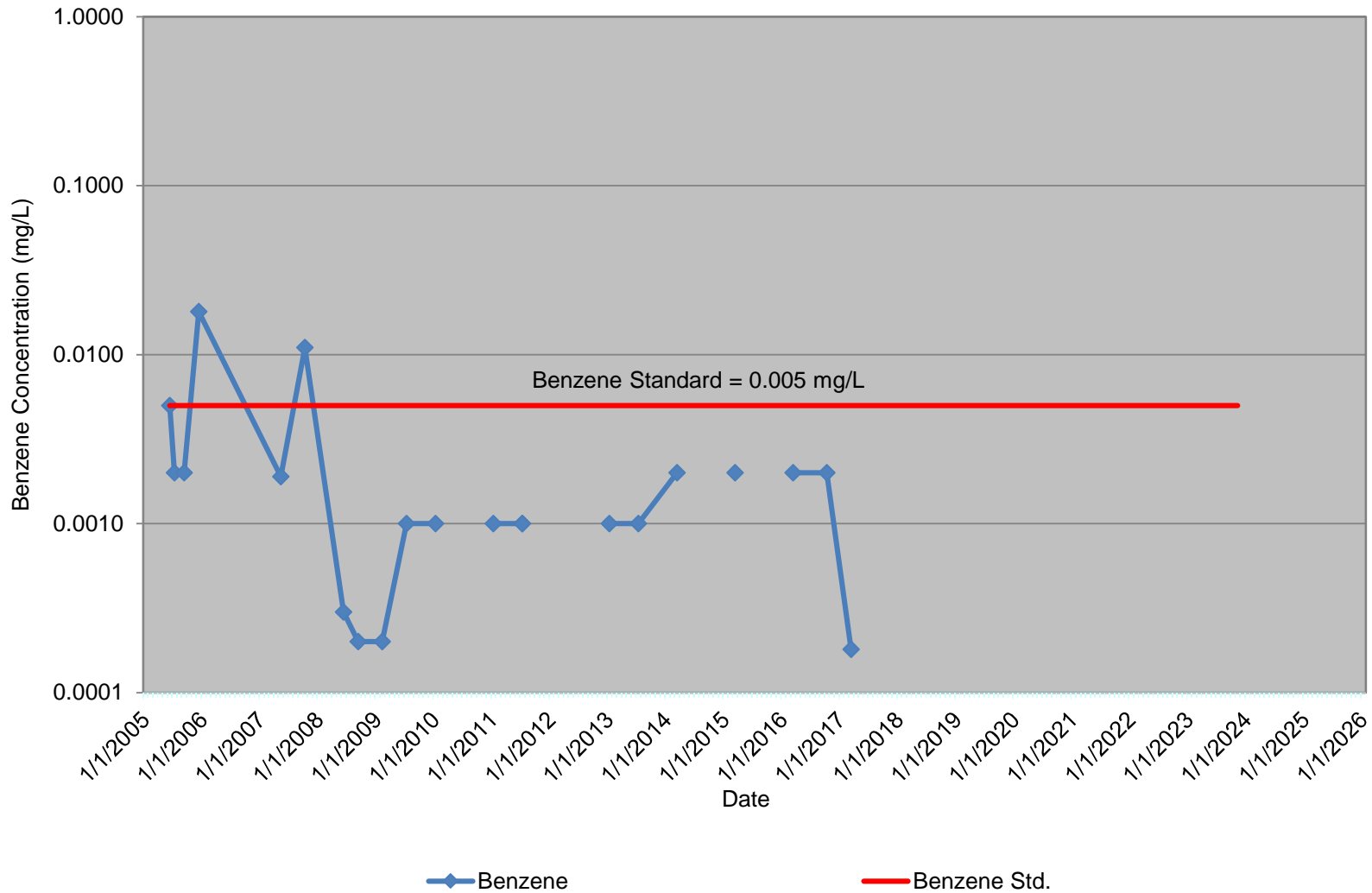
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Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
MW-L



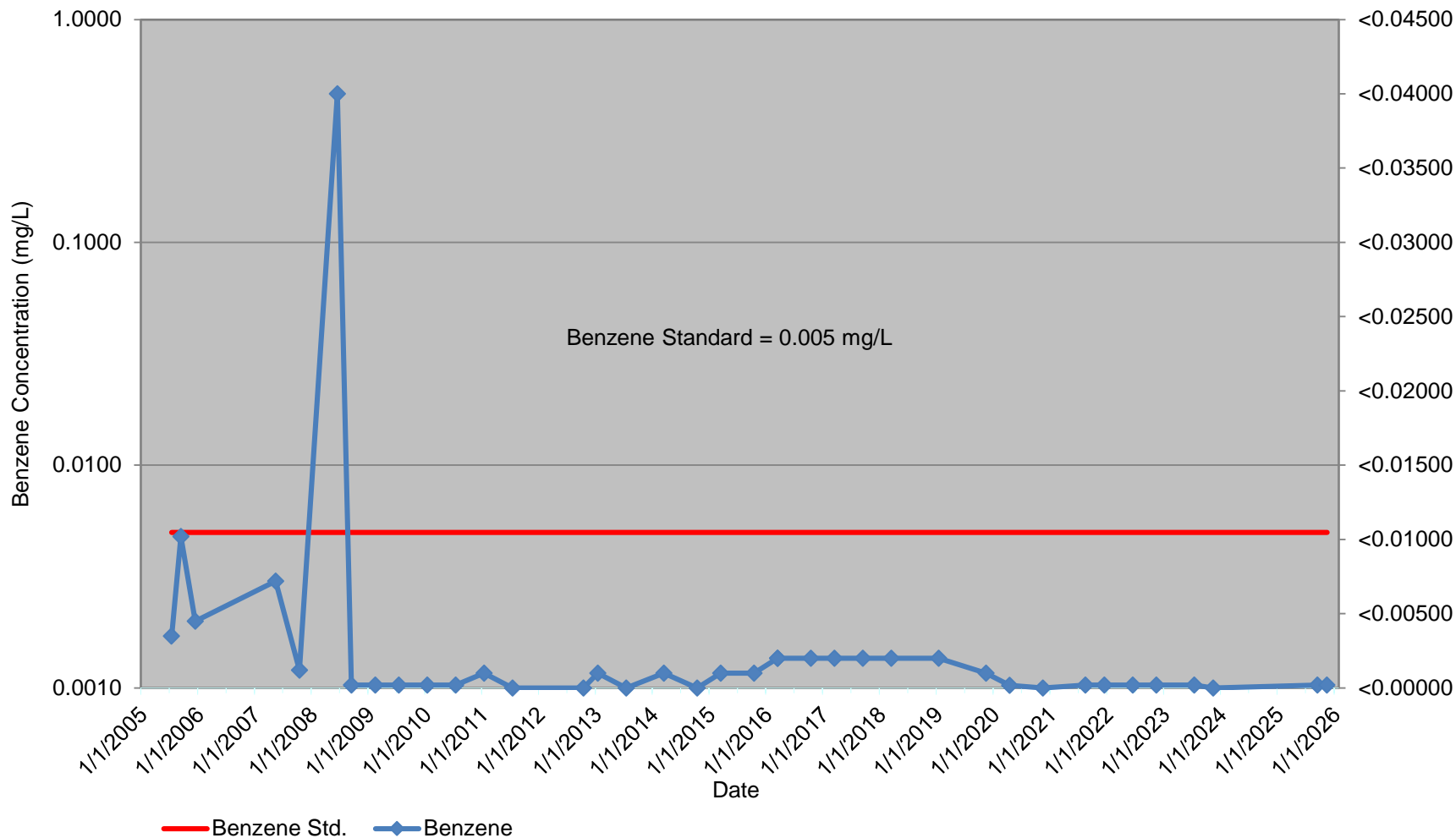
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Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
MW-M



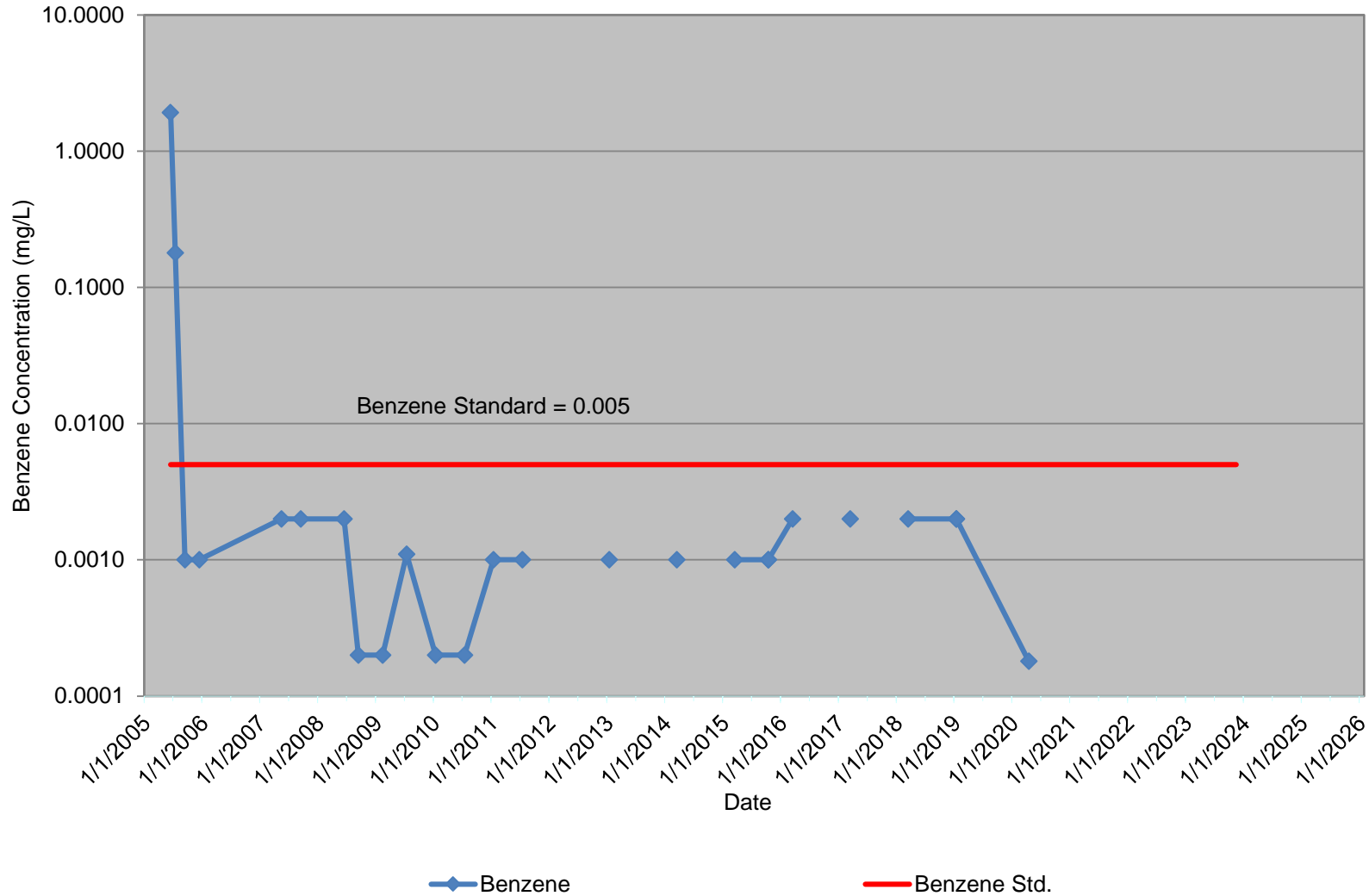
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Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
MW-N



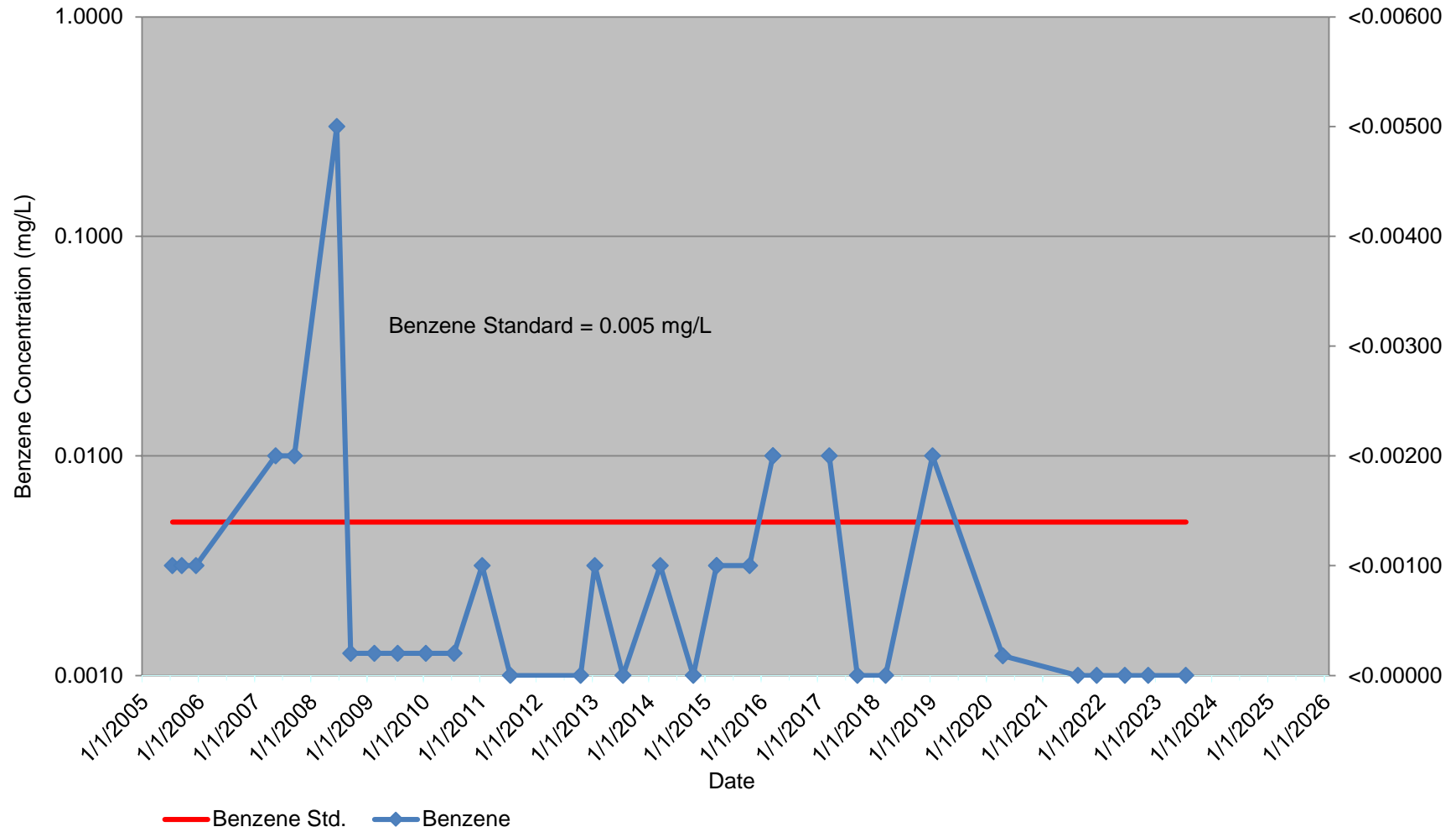
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Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
MW-O and MW-O-R



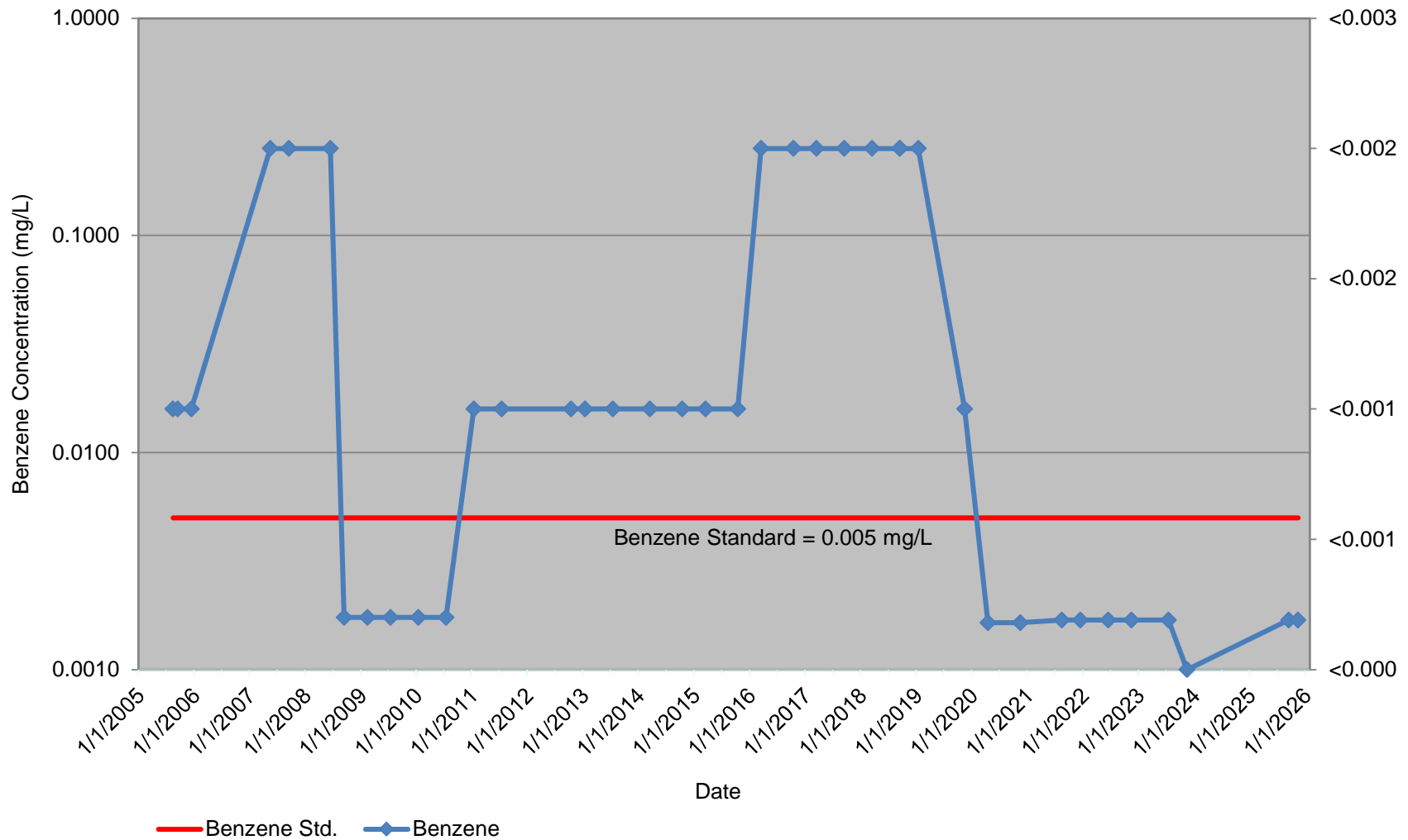
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Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
MW-P



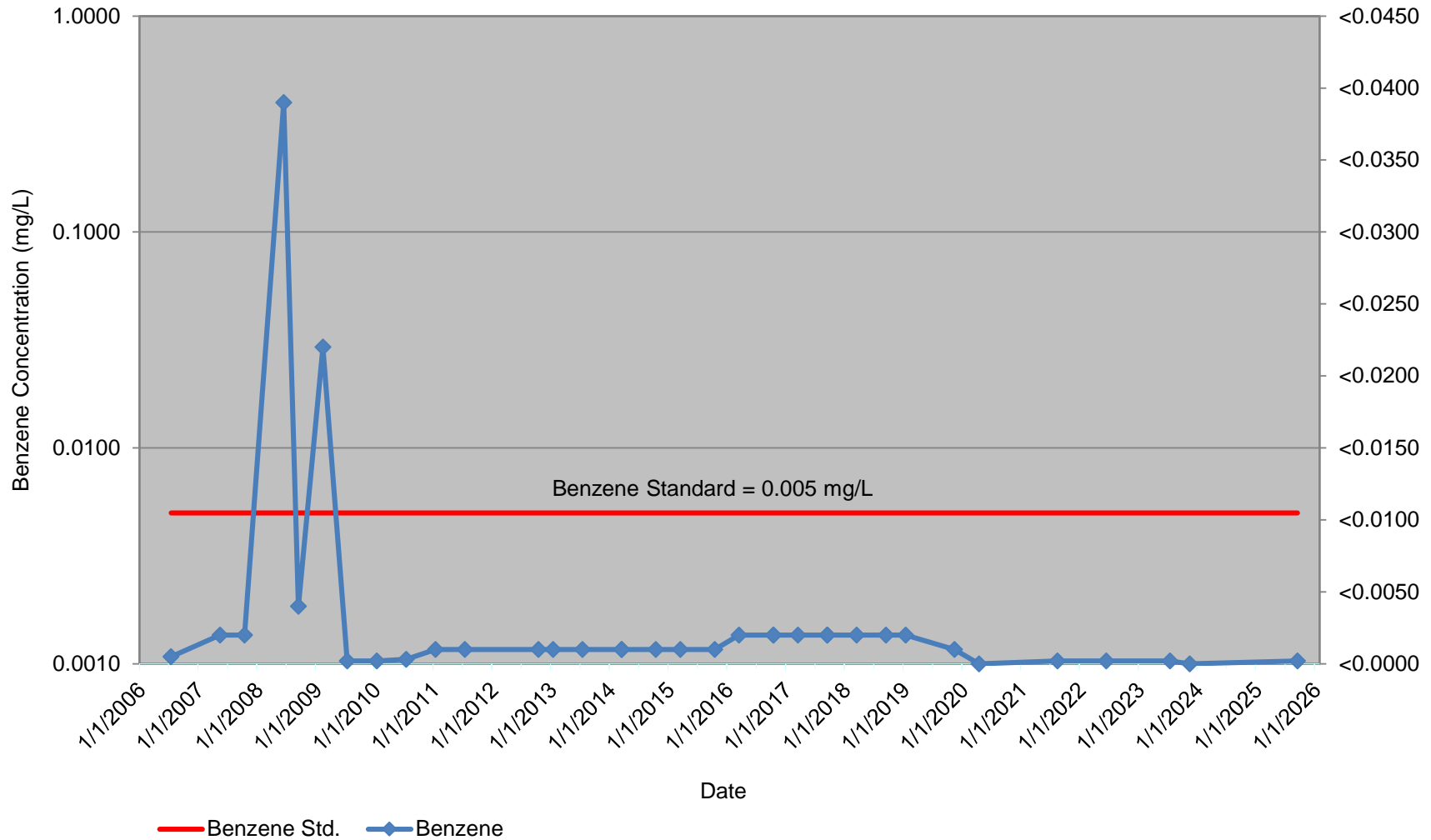
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Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
MW-Q



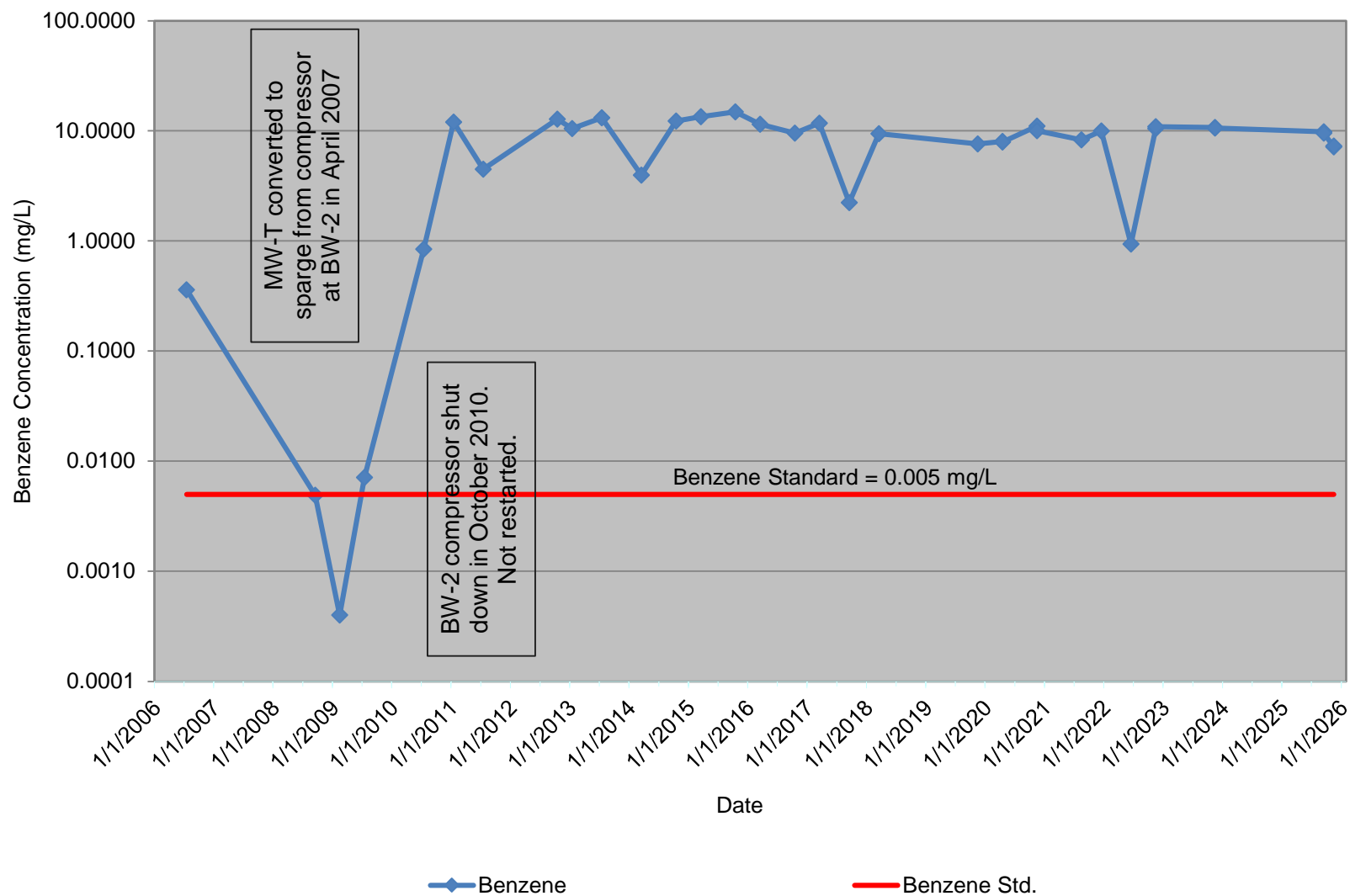
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Lovington Paddock Groundwater Remediation Site
Lea County, NM
MW-R



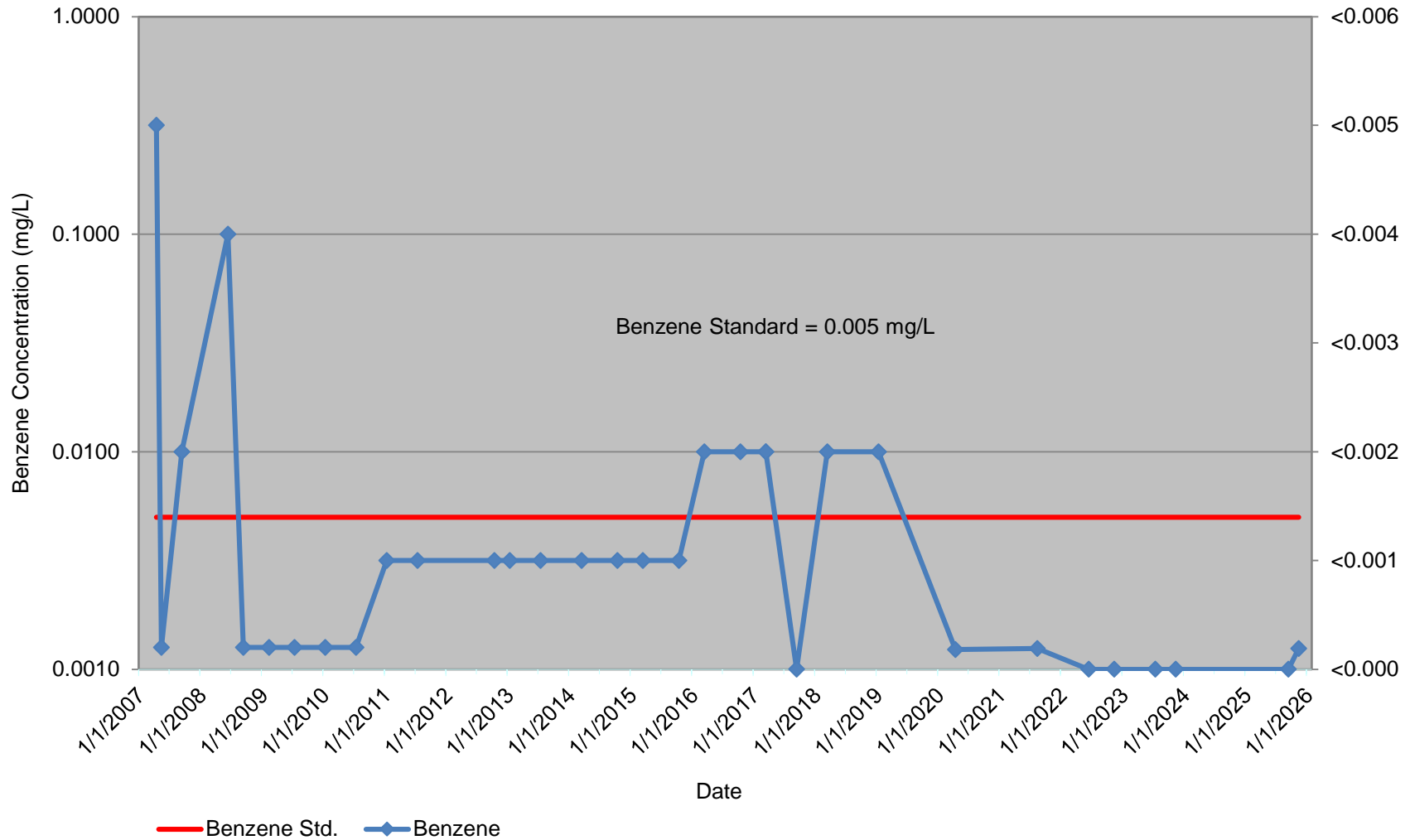
Chevron Environmental Management Company
Lovington Paddock Groundwater Remediation Site
Lea County, NM
MW-S



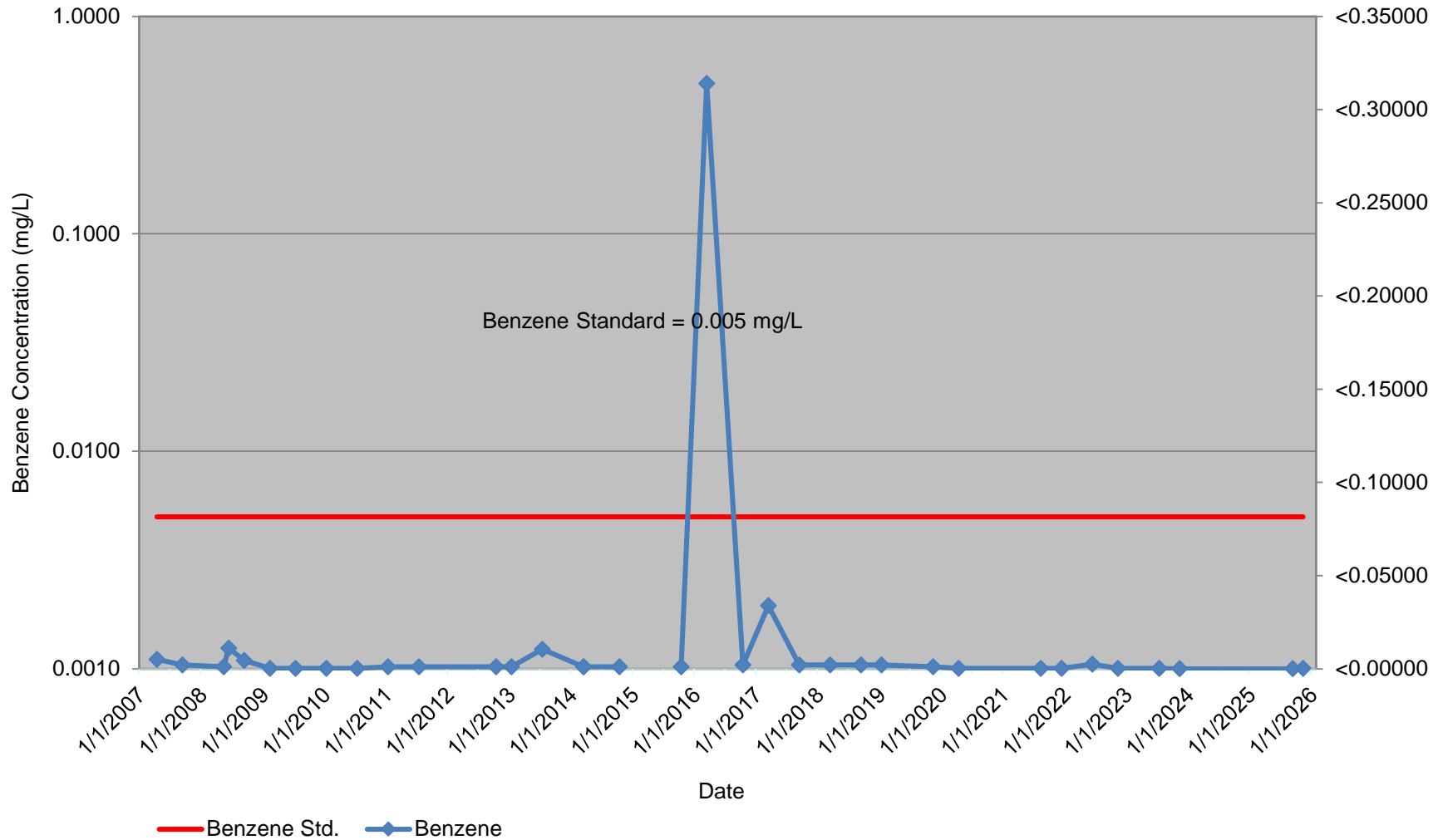
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Lovington Paddock Groundwater Remediation Site
Lea County, NM
MW-T



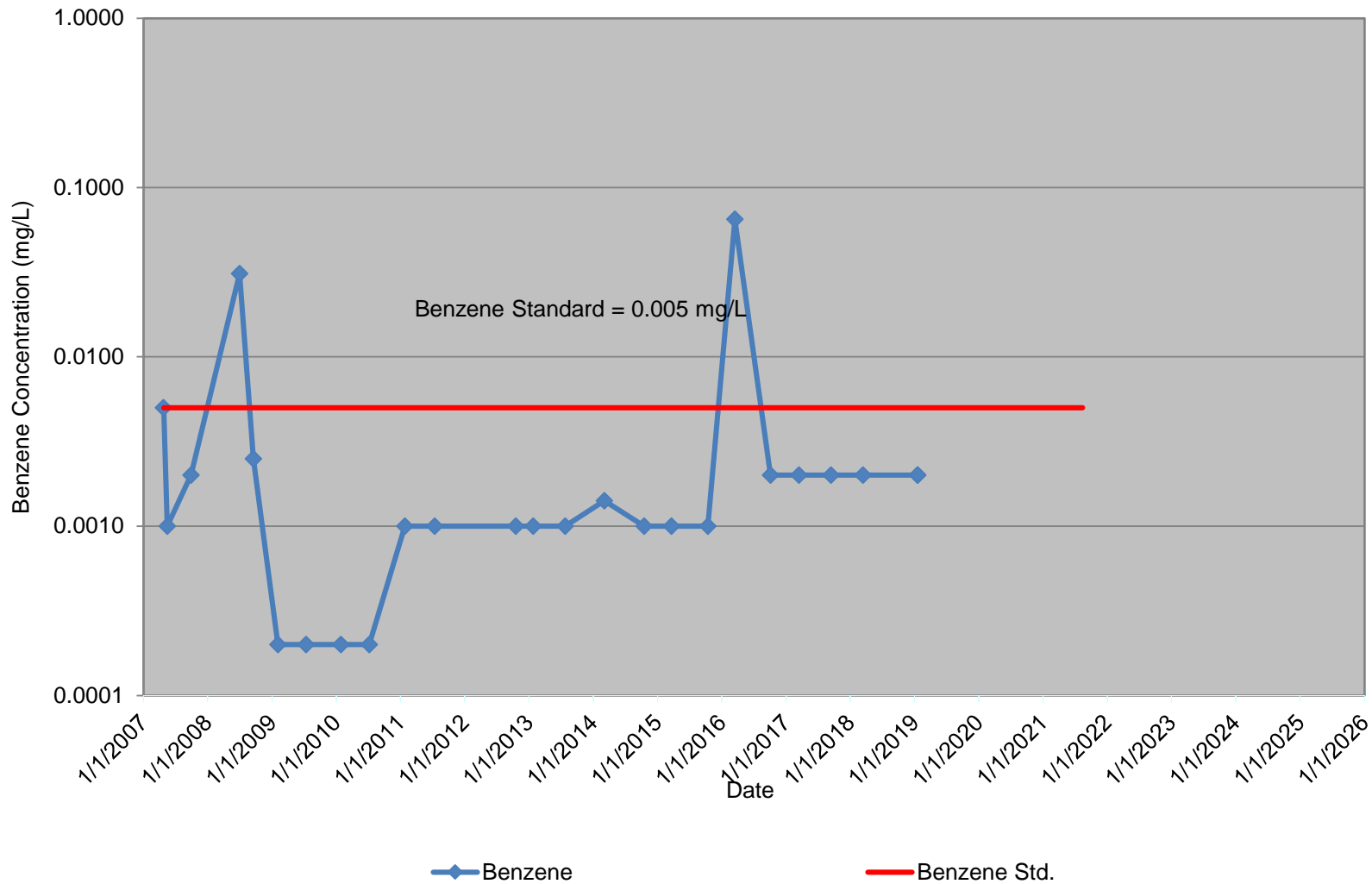
Chevron Environmental Management Company
Lovington Paddock Groundwater Remediation Site
Lea County, NM
MW-U



Chevron Environmental Management Company
Lovington Paddock Groundwater Remediation Site
Lea County, NM
MW-V



Chevron Environmental Management Company
Lovington Paddock Groundwater Remediation Site
Lea County, NM
Benzene in Groundwater
MW-W



Appendix F

Analytical Reports



ANALYTICAL REPORT

September 18, 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: L1895479
 Samples Received: 09/05/2025
 Project Number: 30201010 - 00003
 Description: Lovington Paddock- GWM
 Site: LOVINGTON PADDOCK
 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 5

Sr: Sample Results 6

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 MW-S-250904 L1895479-07 12

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Qc: Quality Control Summary 14

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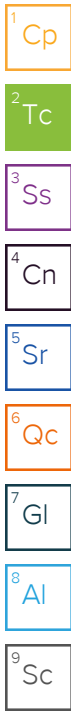
 Volatile Organic Compounds (GC) by Method 8021 15

 Semi-Volatile Organic Compounds (GC) by Method 8015D 16

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Al: Accreditations & Locations 18

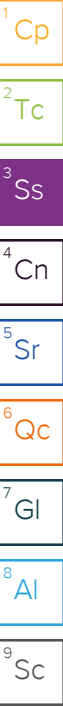
Sc: Sample Chain of Custody 19



MW-D2-250903 L1895479-01

Collected by Heath Boyd
 Collected date/time 09/03/25 11:00
 Received date/time 09/05/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/8021	WG2596261	1	09/08/25 15:39	09/08/25 15:39	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015D	WG2597838	1	09/13/25 13:17	09/14/25 18:36	TJD	Mt. Juliet, TN



MW-CR-250903 L1895479-02

Collected by Heath Boyd
 Collected date/time 09/03/25 11:45
 Received date/time 09/05/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/8021	WG2596261	1	09/08/25 16:00	09/08/25 16:00	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015D	WG2597838	1	09/13/25 13:17	09/14/25 18:58	TJD	Mt. Juliet, TN

BW-2-250903 L1895479-03

Collected by Heath Boyd
 Collected date/time 09/03/25 13:25
 Received date/time 09/05/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/8021	WG2596261	10	09/08/25 17:26	09/08/25 17:26	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015D	WG2597838	2	09/13/25 13:17	09/14/25 19:21	TJD	Mt. Juliet, TN

MW-T-250903 L1895479-04

Collected by Heath Boyd
 Collected date/time 09/03/25 14:40
 Received date/time 09/05/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/8021	WG2596261	10	09/08/25 17:48	09/08/25 17:48	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021	WG2597589	250	09/10/25 20:48	09/10/25 20:48	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015D	WG2597838	2	09/13/25 13:17	09/14/25 19:43	TJD	Mt. Juliet, TN

MW-R-250904 L1895479-05

Collected by Heath Boyd
 Collected date/time 09/04/25 09:30
 Received date/time 09/05/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/8021	WG2596261	1	09/08/25 16:22	09/08/25 16:22	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015D	WG2597838	1	09/13/25 13:17	09/14/25 20:06	TJD	Mt. Juliet, TN

MW-O-R-250904 L1895479-06

Collected by Heath Boyd
 Collected date/time 09/04/25 10:50
 Received date/time 09/05/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/8021	WG2596261	1	09/08/25 16:43	09/08/25 16:43	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015D	WG2597838	1	09/13/25 13:17	09/14/25 20:28	TJD	Mt. Juliet, TN

MW-S-250904 L1895479-07

Collected by Heath Boyd
 Collected date/time 09/04/25 13:00
 Received date/time 09/05/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/8021	WG2596261	1	09/08/25 17:05	09/08/25 17:05	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015D	WG2597838	1	09/13/25 13:17	09/14/25 20:51	TJD	Mt. Juliet, TN

SAMPLE SUMMARY

DUP-1-250903 L1895479-08

Collected by	Collected date/time	Received date/time
Heath Boyd	09/03/25 00:00	09/05/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/8021	WG2596261	10	09/08/25 18:09	09/08/25 18:09	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021	WG2597589	200	09/10/25 21:10	09/10/25 21:10	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015D	WG2597838	2	09/13/25 13:17	09/14/25 21:13	TJD	Mt. Juliet, TN

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

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: 09/03/25 11:00

L1895479

Volatile Organic Compounds (GC) by Method 8015D/8021

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000630	B	0.000190	0.000500	1	09/08/2025 15:39	WG2596261
Toluene	0.000877	J	0.000412	0.00100	1	09/08/2025 15:39	WG2596261
Ethylbenzene	U		0.000160	0.000500	1	09/08/2025 15:39	WG2596261
Total Xylene	U		0.000510	0.00150	1	09/08/2025 15:39	WG2596261
TPH (GC/FID) Low Fraction	U		0.0594	0.100	1	09/08/2025 15:39	WG2596261
(S) a,a,a-Trifluorotoluene(FID)	109			78.0-120		09/08/2025 15:39	WG2596261
(S) a,a,a-Trifluorotoluene(PID)	113			79.0-125		09/08/2025 15:39	WG2596261

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

Semi-Volatile Organic Compounds (GC) by Method 8015D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0605	0.100	1	09/14/2025 18:36	WG2597838
(S) o-Terphenyl	117			52.0-156		09/14/2025 18:36	WG2597838

Collected date/time: 09/03/25 11:45

L1895479

Volatile Organic Compounds (GC) by Method 8015D/8021

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	09/08/2025 16:00	WG2596261
Toluene	U		0.000412	0.00100	1	09/08/2025 16:00	WG2596261
Ethylbenzene	U		0.000160	0.000500	1	09/08/2025 16:00	WG2596261
Total Xylene	U		0.000510	0.00150	1	09/08/2025 16:00	WG2596261
TPH (GC/FID) Low Fraction	U		0.0594	0.100	1	09/08/2025 16:00	WG2596261
(S) a,a,a-Trifluorotoluene(FID)	109			78.0-120		09/08/2025 16:00	WG2596261
(S) a,a,a-Trifluorotoluene(PID)	113			79.0-125		09/08/2025 16:00	WG2596261

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

Semi-Volatile Organic Compounds (GC) by Method 8015D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0605	0.100	1	09/14/2025 18:58	WG2597838
(S) o-Terphenyl	142			52.0-156		09/14/2025 18:58	WG2597838

Collected date/time: 09/03/25 13:25

L1895479

Volatile Organic Compounds (GC) by Method 8015D/8021

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	1.29		0.00190	0.00500	10	09/08/2025 17:26	WG2596261
Toluene	0.0525		0.00412	0.0100	10	09/08/2025 17:26	WG2596261
Ethylbenzene	0.00653		0.00160	0.00500	10	09/08/2025 17:26	WG2596261
Total Xylene	0.0831		0.00510	0.0150	10	09/08/2025 17:26	WG2596261
TPH (GC/FID) Low Fraction	4.33		0.594	1.00	10	09/08/2025 17:26	WG2596261
(S) a,a,a-Trifluorotoluene(FID)	107			78.0-120		09/08/2025 17:26	WG2596261
(S) a,a,a-Trifluorotoluene(PID)	111			79.0-125		09/08/2025 17:26	WG2596261

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

Semi-Volatile Organic Compounds (GC) by Method 8015D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	0.411		0.121	0.200	2	09/14/2025 19:21	WG2597838
(S) o-Terphenyl	75.8			52.0-156		09/14/2025 19:21	WG2597838

Sample Narrative:

L1895479-03 WG2597838: Dilution due to matrix impact during extraction procedure.

Collected date/time: 09/03/25 14:40

L1895479

Volatile Organic Compounds (GC) by Method 8015D/8021

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	9.78		0.0475	0.125	250	09/10/2025 20:48	WG2597589
Toluene	0.0626		0.00412	0.0100	10	09/08/2025 17:48	WG2596261
Ethylbenzene	0.447		0.00160	0.00500	10	09/08/2025 17:48	WG2596261
Total Xylene	1.07		0.00510	0.0150	10	09/08/2025 17:48	WG2596261
TPH (GC/FID) Low Fraction	28.9		0.594	1.00	10	09/08/2025 17:48	WG2596261
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		09/08/2025 17:48	WG2596261
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		09/10/2025 20:48	WG2597589
(S) a,a,a-Trifluorotoluene(PID)	109			79.0-125		09/08/2025 17:48	WG2596261
(S) a,a,a-Trifluorotoluene(PID)	108			79.0-125		09/10/2025 20:48	WG2597589

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

Semi-Volatile Organic Compounds (GC) by Method 8015D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.254		0.121	0.200	2	09/14/2025 19:43	WG2597838
(S) o-Terphenyl	136			52.0-156		09/14/2025 19:43	WG2597838

Sample Narrative:

L1895479-04 WG2597838: Dilution due to matrix impact during extraction procedure.

Collected date/time: 09/04/25 09:30

L1895479

Volatile Organic Compounds (GC) by Method 8015D/8021

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	09/08/2025 16:22	WG2596261
Toluene	U		0.000412	0.00100	1	09/08/2025 16:22	WG2596261
Ethylbenzene	U		0.000160	0.000500	1	09/08/2025 16:22	WG2596261
Total Xylene	U		0.000510	0.00150	1	09/08/2025 16:22	WG2596261
TPH (GC/FID) Low Fraction	U		0.0594	0.100	1	09/08/2025 16:22	WG2596261
(S) a,a,a-Trifluorotoluene(FID)	109			78.0-120		09/08/2025 16:22	WG2596261
(S) a,a,a-Trifluorotoluene(PID)	113			79.0-125		09/08/2025 16:22	WG2596261

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

Semi-Volatile Organic Compounds (GC) by Method 8015D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0605	0.100	1	09/14/2025 20:06	WG2597838
(S) o-Terphenyl	126			52.0-156		09/14/2025 20:06	WG2597838

Collected date/time: 09/04/25 10:50

L1895479

Volatile Organic Compounds (GC) by Method 8015D/8021

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	09/08/2025 16:43	WG2596261
Toluene	U		0.000412	0.00100	1	09/08/2025 16:43	WG2596261
Ethylbenzene	U		0.000160	0.000500	1	09/08/2025 16:43	WG2596261
Total Xylene	U		0.000510	0.00150	1	09/08/2025 16:43	WG2596261
TPH (GC/FID) Low Fraction	U		0.0594	0.100	1	09/08/2025 16:43	WG2596261
(S) a,a,a-Trifluorotoluene(FID)	109			78.0-120		09/08/2025 16:43	WG2596261
(S) a,a,a-Trifluorotoluene(PID)	113			79.0-125		09/08/2025 16:43	WG2596261

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

Semi-Volatile Organic Compounds (GC) by Method 8015D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.110		0.0605	0.100	1	09/14/2025 20:28	WG2597838
(S) o-Terphenyl	140			52.0-156		09/14/2025 20:28	WG2597838

Collected date/time: 09/04/25 13:00

L1895479

Volatile Organic Compounds (GC) by Method 8015D/8021

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	09/08/2025 17:05	WG2596261
Toluene	U		0.000412	0.00100	1	09/08/2025 17:05	WG2596261
Ethylbenzene	U		0.000160	0.000500	1	09/08/2025 17:05	WG2596261
Total Xylene	U		0.000510	0.00150	1	09/08/2025 17:05	WG2596261
TPH (GC/FID) Low Fraction	U		0.0594	0.100	1	09/08/2025 17:05	WG2596261
(S) a,a,a-Trifluorotoluene(FID)	109			78.0-120		09/08/2025 17:05	WG2596261
(S) a,a,a-Trifluorotoluene(PID)	113			79.0-125		09/08/2025 17:05	WG2596261

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

Semi-Volatile Organic Compounds (GC) by Method 8015D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0605	0.100	1	09/14/2025 20:51	WG2597838
(S) o-Terphenyl	142			52.0-156		09/14/2025 20:51	WG2597838

Collected date/time: 09/03/25 00:00

L1895479

Volatile Organic Compounds (GC) by Method 8015D/8021

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	9.52		0.0380	0.100	200	09/10/2025 21:10	WG2597589
Toluene	0.0649		0.00412	0.0100	10	09/08/2025 18:09	WG2596261
Ethylbenzene	0.433		0.00160	0.00500	10	09/08/2025 18:09	WG2596261
Total Xylene	1.04		0.00510	0.0150	10	09/08/2025 18:09	WG2596261
TPH (GC/FID) Low Fraction	28.3		0.594	1.00	10	09/08/2025 18:09	WG2596261
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		09/08/2025 18:09	WG2596261
(S) a,a,a-Trifluorotoluene(FID)	102			78.0-120		09/10/2025 21:10	WG2597589
(S) a,a,a-Trifluorotoluene(PID)	109			79.0-125		09/08/2025 18:09	WG2596261
(S) a,a,a-Trifluorotoluene(PID)	107			79.0-125		09/10/2025 21:10	WG2597589

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

Semi-Volatile Organic Compounds (GC) by Method 8015D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.243		0.121	0.200	2	09/14/2025 21:13	WG2597838
(S) o-Terphenyl	140			52.0-156		09/14/2025 21:13	WG2597838

Sample Narrative:

L1895479-08 WG2597838: Dilution due to matrix impact during extraction procedure.

Volatile Organic Compounds (GC) by Method 8015D/8021

[L1895479-01,02,03,04,05,06,07,08](#)

Method Blank (MB)

(MB) R4271150-4 09/08/25 10:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	0.000443	U	0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	0.000565	U	0.000510	0.00150
TPH (GC/FID) Low Fraction	U		0.0594	0.100
(S) a,a,a-Trifluorotoluene(FID)	108			78.0-120
(S) a,a,a-Trifluorotoluene(PID)	112			79.0-125

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R4271150-1 09/08/25 08:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0480	96.0	77.0-122	
Toluene	0.0500	0.0472	94.4	80.0-121	
Ethylbenzene	0.0500	0.0513	103	80.0-123	
Total Xylene	0.150	0.152	101	47.0-154	
(S) a,a,a-Trifluorotoluene(FID)			109	78.0-120	
(S) a,a,a-Trifluorotoluene(PID)			112	79.0-125	

7 Gl

8 Al

9 Sc

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

(LCS) R4271150-2 09/08/25 09:16 • (LCSD) R4271150-3 09/08/25 09:38

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 %
TPH (GC/FID) Low Fraction	5.00	5.69	5.65	114	113	72.0-127			0.705	20
(S) a,a,a-Trifluorotoluene(FID)				114	114	78.0-120				
(S) a,a,a-Trifluorotoluene(PID)				119	119	79.0-125				

Volatile Organic Compounds (GC) by Method 8021

L1895479-04,08

Method Blank (MB)

(MB) R4271824-4 09/10/25 12:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.000190	0.000500
(S) a,a,a-Trifluorotoluene(FID)	106			78.0-120
(S) a,a,a-Trifluorotoluene(PID)	111			79.0-125

Laboratory Control Sample (LCS)

(LCS) R4271824-1 09/10/25 10:49

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Benzene	0.0500	0.0527	105	77.0-122	
(S) a,a,a-Trifluorotoluene(FID)			104	78.0-120	
(S) a,a,a-Trifluorotoluene(PID)			108	79.0-125	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015D

[L1895479-01,02,03,04,05,06,07,08](#)

Method Blank (MB)

(MB) R4274238-1 09/14/25 15:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) High Fraction	U		0.0605	0.100
(S) o-Terphenyl	138			52.0-156

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

(LCS) R4274238-2 09/14/25 15:36 • (LCSD) R4274238-3 09/14/25 15:58

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1.50	1.43	1.49	95.3	99.3	50.0-150			4.11	20
(S) o-Terphenyl				54.5	45.2	52.0-156		J2		

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.
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.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.

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.

¹ Cp

² Tc

³ Ss

⁴ Cn


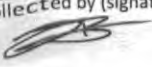
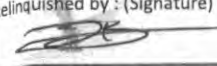
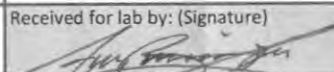
⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address: Arcadis - Chevron - NM		Billing Information: Morgan Jordan 630 Plaza Drive, Suite 200 Highlands Ranch, CO 80129		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page ___ of ___					
1004 N Big Spring Street Suite 121 Midland, TX 79701		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/hubs/pas-standard-terms.pdf					
Report to: Morgan Jordan 432-687-5400		City/State Collected: <u>Louington, NM</u>		Please Circle: PT <input checked="" type="radio"/> MT <input type="radio"/> CT <input type="radio"/> ET																	
Project Description: Lovington Paddock - GWM		Client Project # 30201010 - 00003		Lab Project # CHEVARCNM-LOVPAD												SDG # <u>L1895479</u>					
Regulatory Program(DOD,RCRA,DW,etc):		Site/Facility ID # LOVINGTON PADDOCK		P.O. #												Tab F250					
Collected by (print): <u>Heath Boyd</u>		Rush? (Lab MUST Be Notified)		Quote #												Acctnum: CHEVARCNM					
Collected by (signature): 		Same Day _____ Five Day _____ Next Day _____ 5 Day (Rad Only) _____ Two Day _____ 10 Day (Rad Only) _____ Three Day <input checked="" type="checkbox"/> STD TAT		Date Results Needed												Template: T193153					
Immediately Packed on Ice N <u>Y</u> <u>X</u>																Prelogin: P1175069					
																PM: 840 - Katie Ingram					
																PB:					
																Shipped Via:					
																Remarks					
																Sample # (lab only)					
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs														
MW-DZ-250903		Grab	GW		9/3/25	1100	4	X	X											- 01	
MW-LR-250903			GW			1145		X	X											- 02	
BW-Z-250903			GW			1325		X	X											- 03	
MW-T-250903			GW		X	1440		X	X											- 04	
MW-R-250904			GW		9/4/25	930		X	X											- 05	
MW-O-R-250904			GW			1050		X	X											- 06	
MW-S-250904			GW		X	1300		X	X											- 07	
Dup-1-250903		X	GW		9/3/25	-		X	X											- 08	
			GW																		
			GW																		
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Wastewater DW - Drinking Water OT - Other		Remarks:		Samples returned via: UPS _____ FedEx _____ Courier _____		Tracking # <u>4493 5932 5183</u>		pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: <input type="checkbox"/> NP <input checked="" type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N											
Relinquished by: (Signature) 		Date: <u>9/4/25</u>	Time: <u>1630</u>	Received by: (Signature)		Trip Blank Received: Yes/No HCL/MeOH TBR		Bottles Received: <u>32</u>										If preservation required by Login: Date/Time			
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: °C <u>13.9-0.1-38</u>		Date: <u>9/5/25</u> Time: <u>9 00</u>										Hold: Condition: NCF / <input checked="" type="radio"/> OK			
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) 		Date: <u>9/5/25</u> Time: <u>9 00</u>															



ANALYTICAL REPORT

November 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: L1918654
 Samples Received: 11/14/2025
 Project Number: 30201010 - 00003
 Description: Lovington Paddock
 Site: LOVINGTON PADDOCK
 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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Tc: Table of Contents 2

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Cn: Case Narrative 5

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 BW-3-W-251113 L1918654-03 8

 BW-2-W-251113 L1918654-04 9

 MW-T-W-251113 L1918654-05 10

 MW-U-W-251113 L1918654-06 11

 MW-V-W-251113 L1918654-07 12

 MW-OR-W-251113 L1918654-08 13

 MW-R-W-251113 L1918654-09 14

 DUP-1-W-251113 L1918654-10 15

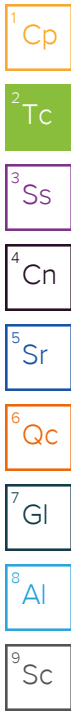
Qc: Quality Control Summary 16

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Al: Accreditations & Locations 20

Sc: Sample Chain of Custody 21



MW-B-W-251113 L1918654-01

Collected by Heath Boyd
 Collected date/time 11/13/25 09:00
 Received date/time 11/14/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2643320	1	11/20/25 01:02	11/20/25 01:02	GMV	Mt. Juliet, TN

1 Cp

2 Tc

BW-1-W-251113 L1918654-02

Collected by Heath Boyd
 Collected date/time 11/13/25 10:00
 Received date/time 11/14/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2644348	1	11/21/25 01:40	11/21/25 01:40	DWR	Mt. Juliet, TN

3 Ss

4 Cn

5 Sr

BW-3-W-251113 L1918654-03

Collected by Heath Boyd
 Collected date/time 11/13/25 11:00
 Received date/time 11/14/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2646932	1	11/26/25 01:13	11/26/25 01:13	ACG	Mt. Juliet, TN

6 Qc

7 Gl

8 Al

BW-2-W-251113 L1918654-04

Collected by Heath Boyd
 Collected date/time 11/13/25 12:00
 Received date/time 11/14/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2643320	10	11/20/25 05:53	11/20/25 05:53	GMV	Mt. Juliet, TN

9 Sc

MW-T-W-251113 L1918654-05

Collected by Heath Boyd
 Collected date/time 11/13/25 13:30
 Received date/time 11/14/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2643320	200	11/20/25 07:11	11/20/25 07:11	GMV	Mt. Juliet, TN

MW-U-W-251113 L1918654-06

Collected by Heath Boyd
 Collected date/time 11/13/25 14:20
 Received date/time 11/14/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2643320	1	11/20/25 01:22	11/20/25 01:22	GMV	Mt. Juliet, TN

MW-V-W-251113 L1918654-07

Collected by Heath Boyd
 Collected date/time 11/13/25 15:10
 Received date/time 11/14/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2643320	1	11/20/25 01:41	11/20/25 01:41	GMV	Mt. Juliet, TN

MW-OR-W-251113 L1918654-08

Collected by Heath Boyd
 Collected date/time 11/13/25 16:00
 Received date/time 11/14/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2643320	1	11/20/25 02:01	11/20/25 02:01	GMV	Mt. Juliet, TN

MW-R-W-251113 L1918654-09

Collected by Heath Boyd
Collected date/time 11/13/25 16:45
Received date/time 11/14/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2643320	1	11/20/25 02:20	11/20/25 02:20	GMV	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

DUP-1-W-251113 L1918654-10

Collected by Heath Boyd
Collected date/time 11/13/25 00:00
Received date/time 11/14/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2643320	100	11/20/25 06:51	11/20/25 06:51	GMV	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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: 11/13/25 09:00

L1918654

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000199	<u>BJ</u>	0.000190	0.000500	1	11/20/2025 01:02	WG2643320
Toluene	U		0.000412	0.00100	1	11/20/2025 01:02	WG2643320
Ethylbenzene	U		0.000160	0.000500	1	11/20/2025 01:02	WG2643320
Total Xylene	U		0.000510	0.00150	1	11/20/2025 01:02	WG2643320
(S) a,a,a-Trifluorotoluene(PID)	109			79.0-125		11/20/2025 01:02	WG2643320

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

Collected date/time: 11/13/25 10:00

L1918654

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0426		0.000190	0.000500	1	11/21/2025 01:40	WG2644348
Toluene	U		0.000412	0.00100	1	11/21/2025 01:40	WG2644348
Ethylbenzene	U		0.000160	0.000500	1	11/21/2025 01:40	WG2644348
Total Xylene	0.00963		0.000510	0.00150	1	11/21/2025 01:40	WG2644348
(S) a,a,a-Trifluorotoluene(PID)	108			79.0-125		11/21/2025 01:40	WG2644348

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

Collected date/time: 11/13/25 11:00

L1918654

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	11/26/2025 01:13	WG2646932
Toluene	U		0.000412	0.00100	1	11/26/2025 01:13	WG2646932
Ethylbenzene	U		0.000160	0.000500	1	11/26/2025 01:13	WG2646932
Total Xylene	U		0.000510	0.00150	1	11/26/2025 01:13	WG2646932
(S) a,a,a-Trifluorotoluene(PID)	108			79.0-125		11/26/2025 01:13	WG2646932

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

Collected date/time: 11/13/25 12:00

L1918654

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	2.00		0.00190	0.00500	10	11/20/2025 05:53	WG2643320
Toluene	0.119		0.00412	0.0100	10	11/20/2025 05:53	WG2643320
Ethylbenzene	0.0130		0.00160	0.00500	10	11/20/2025 05:53	WG2643320
Total Xylene	0.0758	<u>B</u>	0.00510	0.0150	10	11/20/2025 05:53	WG2643320
(S) a,a,a-Trifluorotoluene(PID)	107			79.0-125		11/20/2025 05:53	WG2643320

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

Collected date/time: 11/13/25 13:30

L1918654

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	7.13		0.0380	0.100	200	11/20/2025 07:11	WG2643320
Toluene	0.347		0.0824	0.200	200	11/20/2025 07:11	WG2643320
Ethylbenzene	0.298		0.0320	0.100	200	11/20/2025 07:11	WG2643320
Total Xylene	0.780	<u>B</u>	0.102	0.300	200	11/20/2025 07:11	WG2643320
(S) a,a,a-Trifluorotoluene(PID)	108			79.0-125		11/20/2025 07:11	WG2643320

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

Collected date/time: 11/13/25 14:20

L1918654

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	11/20/2025 01:22	WG2643320
Toluene	U		0.000412	0.00100	1	11/20/2025 01:22	WG2643320
Ethylbenzene	U		0.000160	0.000500	1	11/20/2025 01:22	WG2643320
Total Xylene	U		0.000510	0.00150	1	11/20/2025 01:22	WG2643320
(S) a,a,a-Trifluorotoluene(PID)	109			79.0-125		11/20/2025 01:22	WG2643320

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

Collected date/time: 11/13/25 15:10

L1918654

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	11/20/2025 01:41	WG2643320
Toluene	U		0.000412	0.00100	1	11/20/2025 01:41	WG2643320
Ethylbenzene	U		0.000160	0.000500	1	11/20/2025 01:41	WG2643320
Total Xylene	U		0.000510	0.00150	1	11/20/2025 01:41	WG2643320
(S) a,a,a-Trifluorotoluene(PID)	108			79.0-125		11/20/2025 01:41	WG2643320

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

Collected date/time: 11/13/25 16:00

L1918654

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	11/20/2025 02:01	WG2643320
Toluene	U		0.000412	0.00100	1	11/20/2025 02:01	WG2643320
Ethylbenzene	U		0.000160	0.000500	1	11/20/2025 02:01	WG2643320
Total Xylene	U		0.000510	0.00150	1	11/20/2025 02:01	WG2643320
(S) a,a,a-Trifluorotoluene(PID)	107			79.0-125		11/20/2025 02:01	WG2643320

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

Collected date/time: 11/13/25 16:45

L1918654

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/l		mg/l	mg/l			
Benzene	U		0.000190	0.000500	1	11/20/2025 02:20	WG2643320
Toluene	U		0.000412	0.00100	1	11/20/2025 02:20	WG2643320
Ethylbenzene	U		0.000160	0.000500	1	11/20/2025 02:20	WG2643320
Total Xylene	U		0.000510	0.00150	1	11/20/2025 02:20	WG2643320
(S) a,a,a-Trifluorotoluene(PID)	109			79.0-125		11/20/2025 02:20	WG2643320

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

Collected date/time: 11/13/25 00:00

L1918654

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	7.26		0.0190	0.0500	100	11/20/2025 06:51	WG2643320
Toluene	0.318		0.0412	0.100	100	11/20/2025 06:51	WG2643320
Ethylbenzene	0.288		0.0160	0.0500	100	11/20/2025 06:51	WG2643320
Total Xylene	0.789	<u>B</u>	0.0510	0.150	100	11/20/2025 06:51	WG2643320
(S) a,a,a-Trifluorotoluene(PID)	108			79.0-125		11/20/2025 06:51	WG2643320

- 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

[L1918654-01,04,05,06,07,08,09,10](#)

Method Blank (MB)

(MB) R4303829-5 11/19/25 21:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	0.000245	U	0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	0.000847	U	0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	109			79.0-125

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

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

(LCS) R4303829-1 11/19/25 19:28 • (LCSD) R4303829-2 11/19/25 19:47

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	0.0507	0.0497	101	99.4	77.0-122			1.99	20
Toluene	0.0500	0.0500	0.0489	100	97.8	80.0-121			2.22	20
Ethylbenzene	0.0500	0.0528	0.0491	106	98.2	80.0-123			7.26	20
Total Xylene	0.150	0.154	0.141	103	94.0	47.0-154			8.81	20
(S) a,a,a-Trifluorotoluene(PID)				108	108	79.0-125				

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8021B

[L1918654-02](#)

Method Blank (MB)

(MB) R4305656-5 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) R4305656-1 11/20/25 21:58 • (LCSD) R4305656-2 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

Volatile Organic Compounds (GC) by Method 8021B

[L1918654-03](#)

Method Blank (MB)

(MB) R4306592-4 11/25/25 22:47

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)	108			79.0-125

Laboratory Control Sample (LCS)

(LCS) R4306592-1 11/25/25 20:09

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Benzene	0.0500	0.0519	104	77.0-122	
Toluene	0.0500	0.0496	99.2	80.0-121	
Ethylbenzene	0.0500	0.0543	109	80.0-123	
Total Xylene	0.150	0.160	107	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			106	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

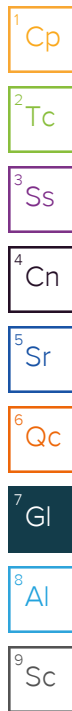
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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



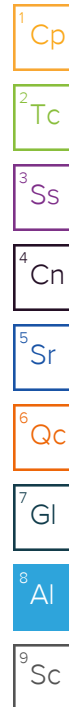
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122




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: Morgan Jordan 630 Plaza Drive, Suite 200 Highlands Ranch, CO 80129		Pres Chk:		Analysis / Container / Preservative						Chain of Custody Page ___ of ___					
Report to: Morgan Jordan 432-687-5400		Email To: douglas.jordan@arcadis.com;lauren.krueger@										 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/hubs/pas-standard-terms.pdf					
Project Description: Lovington Paddock		City/State Collected: <u>Lovington, NM</u>		Please Circle: <u>PT</u> <input type="checkbox"/> <u>MT</u> <input type="checkbox"/> <u>CT</u> <input type="checkbox"/> <u>ET</u> <input type="checkbox"/>								SDG # <u>L1918054</u> C048 Acctnum: CHEVARCNM Template: T240880 Prelogin: P1188760 PM: 840 - Katie Ingram PB: <u>DB 11/14</u>					
Regulatory Program (DOD, RCRA, DW, etc):		Client Project # 30201010 - 00003		Lab Project # CHEVARCNM-LOVPAD		BTEX 40m/Amb-HCI						Shipped Via: Remarks Sample # (lab only)					
Collected by (print): <u>Debra Boyd</u>		Site/Facility ID # LOVINGTON PADDOCK		P.O. #													
Collected by (signature): 		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 checked="" type="checkbox"/> Three Day <input checked="" type="checkbox"/> STD TAT		Quote #								Date Results Needed					
Immediately Packed on Ice <u>N</u> <u>Y</u> <input checked="" type="checkbox"/>																	
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs						Remarks	Sample # (lab only)				
MW-B-W-25113	Grab	GW		11/13/25	900	3							-01				
BW-1-W-25113		GW			1000	3							-02				
BW-3-W-25113		GW			1100	3							-03				
BW-2-W-25113		GW			1200	3							-04				
MW-T-W-25113		GW			1330	3							-05				
MW-U-W-25113					1420	3							-06				
MW-V-W-25113					1510	3							-07				
MW-OR-W-25113					1600	3							-08				
MW-R-W-25113					1645	3							-09				
Dup-1-W-25113	X	X		X	-	3							-10				
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: <u>VS 11/14/26</u> <u>443924437151</u>		pH _____ Temp _____		Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: <u>A</u> <input type="checkbox"/> <u>NP</u> <input type="checkbox"/> <u>Y</u> <input type="checkbox"/> <u>N</u> <input type="checkbox"/> COC Signed/Accurate: <u>Y</u> <input type="checkbox"/> <u>N</u> <input type="checkbox"/> Bottles arrive intact: <u>Y</u> <input type="checkbox"/> <u>N</u> <input type="checkbox"/> Correct bottles used: <u>Y</u> <input type="checkbox"/> <u>N</u> <input type="checkbox"/> Sufficient volume sent: <u>Y</u> <input type="checkbox"/> <u>N</u> <input type="checkbox"/> If Applicable VOA Zero Headspace: <u>Y</u> <input type="checkbox"/> <u>N</u> <input type="checkbox"/> Preservation Correct/Checked: <u>Y</u> <input type="checkbox"/> <u>N</u> <input type="checkbox"/> RAD Screen <0.5 mR/hr: <u>Y</u> <input type="checkbox"/> <u>N</u> <input type="checkbox"/>									
Relinquished by: (Signature) 		Date: <u>11/13/25</u> Time: <u>1659</u>		Received by: (Signature)		Trip Blank Received: <u>Yes</u> / <u>No</u> <input type="checkbox"/> HCL / MeOH <input type="checkbox"/> TBR											
Relinquished by: (Signature)		Date: _____ Time: _____		Received by: (Signature)		Temp: _____ °C Bottles Received: <u>30</u>		If preservation required by Login: Date/Time									
Relinquished by: (Signature)		Date: _____ Time: _____		Received for lab by: (Signature) <u>Vady Turk</u>		Date: <u>11/14/26</u> Time: <u>0930</u>		Hold:		Condition: NCF / <input checked="" type="checkbox"/> OK							

Appendix G

Change of Operator

C104A Report

Page 1 of 1

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone: (505) 393-6161 Fax: (505) 393-0720

District II
 1301 W. Grand Ave., Artesia, NM 88210
 Phone: (505) 748-1283 Fax: (505) 748-8720

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

Form C-145
Permit 28453

Change of Operator

Previous Operator Information

New Operator Information

OGRID: 150628
 Name: PURE RESOURCES, LP
 Address: 500 W ILLINOIS AVE
 Address:
 City, State, Zip: MIDLAND, TX 79701

Effective Date: 4/1/2006
 OGRID: 241333
 Name: CHEVRON MIDCONTINENT, L.P.
 Address: 15 SMITH ROAD
 Address:
 City, State, Zip: MIDLAND, TX 79705

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the certified list of wells is true to the best of my knowledge and belief.

Previous Operator -

New Operator

Signature: Alan W. Bohling
 Printed Name: Alan W. Bohling
 Title: Regulatory Agent
 Date: May 3, 06 Phone: 432-687-7158

Signature: Denise Pinkerton
 Printed Name: Denise Pinkerton
 Title: Regulatory Specialist
 Date: May 8, 06 Phone: 432-687-7375

NMOCD Approval
 Electronic Signature: Paul Kautz, District 1
 Electronic Signature: Carmen Reno, District 2
 Date: June 08, 2006

Data showing Change of Operator from Pure Resources, LP to Chevron Midcontinent, L.P.

Well Completion History

Effective Date	Property	Well Number	Operator	Completion Status	TA Expiration Date
03/15/2023	[302770] LOVINGTON PADDOCK UNIT	#071	[241333] CHEVRON MIDCONTINENT, L.P.	Zone Permanently Plugged	
04/01/2006	[302770] LOVINGTON PADDOCK UNIT	#071	[241333] CHEVRON MIDCONTINENT, L.P.	Active	
05/26/2000	[26749] LOVINGTON PADDOCK UNIT	#071	[150628] PURE RESOURCES, LP	Active	
12/01/1997	[23220] LOVINGTON PADDOCK UNIT	#071	[150661] TITAN RESOURCES I INC	Active	
01/01/1900	[4803] LOVINGTON PADDOCK UNIT	#071	[9374] GREENHILL PETROLEUM CORP	Active	

Well Name: LOVINGTON PADDOCK UNIT #071

Zoom to

API	30-025-03833
Well Name	LOVINGTON PADDOCK UNIT #071
Well Type	Injection
Well Status	Plugged (not released)
Lease Type	State
Associated Pools	[40660] LOVINGTON, PADDOCK
Effective Date	4/1/2006
Last Produced	3/1/2022
OGRID	241333
OGRID Name	CHEVRON MIDCONTINENT, L.P.
Link to Scanned Well Files	View
Link to Well Details	View
Measured Depth	6,300
Vertical Depth	6,300
Well Bore Direction	V
Plug Date	3/15/2023
SPUD Date	5/6/1956
SPUD Year	1956
County	Lea
County FIPS Code	25

Arcadis U.S., Inc.
1330 Post Oak Blvd., Suite 2250
Houston
Texas 77056
Phone: 713 953 4800
www.arcadis.com

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 582275

CONDITIONS

Operator: CHEVRON MIDCONTINENT, L.P. 6301 Deauville Blvd Midland, TX 79706	OGRID: 241333
	Action Number: 582275
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Report accepted for record.	5/12/2026