



# ENSOLUM

March 2, 2026

## **New Mexico Oil Conservation Division**

New Mexico Energy, Minerals, and Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: 2025 Annual Groundwater Monitoring Report**  
OH Randel #007  
San Juan County, New Mexico  
Hilcorp Energy Company  
NMOCD Incident Number: NAUTOFWCO00434

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *2025 Annual Groundwater Monitoring Report* to the New Mexico Oil Conservation Division (NMOCD) to document groundwater monitoring activities conducted at the OH Randel #007 natural gas production site (Site) during 2025. The Site is located on the Navajo Nation, in Unit D, Section 15, Township 26 North, Range 11 West, San Juan County, New Mexico (Figure 1).

## **SITE BACKGROUND**

Hilcorp acquired the Site from XTO Energy, Inc. in December 2017 and subsequently continued semiannual groundwater monitoring activities. As documented in, and approved through, the *2020 Annual Groundwater Monitoring Report*, groundwater monitoring recommendations included semiannual gauging of all Site monitoring wells and groundwater sampling of well MW-7 for benzene, toluene, ethylbenzene, and total xylenes (BTEX) analysis. A summary of historical and current groundwater elevations is provided in Table 1, with corresponding laboratory analytical results presented in Table 2. Comprehensive Site background information, work plans, and historical reports are available in the NMOCD database.

## **SITE GROUNDWATER CLEANUP STANDARDS**

The NMOCD requires groundwater-quality standards be met as presented by the New Mexico Water Quality Control Commission (NMWQCC) and listed in Title 20, Chapter 6, Part 2, Section 3103 (20.6.2.3103) of the New Mexico Administrative Code (NMAC). The following standards are presented for the constituents of concern (COCs) at the Site in micrograms per liter ( $\mu\text{g/L}$ ).

- Benzene: 5.0  $\mu\text{g/L}$
- Toluene: 1,000  $\mu\text{g/L}$
- Ethylbenzene: 700  $\mu\text{g/L}$
- Total Xylenes: 620  $\mu\text{g/L}$

## **GROUNDWATER SAMPLING ACTIVITIES AND RESULTS**

Groundwater level measurements were collected in June and December 2025 from wells MW-3, MW-4, MW-5, MW-7, MW-8, and MW-9. Groundwater samples were collected from well MW-7 during both events for laboratory analysis.

## GROUNDWATER FLOW DIRECTION

Static groundwater level monitoring was conducted using an oil/water interface probe. The interface probe was decontaminated with Alconox<sup>®</sup> soap and rinsed with distilled water prior to each measurement to prevent cross-contamination. Based on semiannual groundwater-level measurements collected in June and December 2025, groundwater elevations remain relatively stable across the Site. Measured depths to groundwater and calculated groundwater elevations are summarized in Table 1. Potentiometric surface maps constructed from these data (Figures 2 and 3) indicate a consistent groundwater flow direction to the north to northeast, as interpreted from groundwater elevation contours.

## GROUNDWATER SAMPLING

Groundwater from MW-7 was purged and sampled using a disposable bailer. Purging was accomplished by removing stagnant groundwater from the monitoring well prior to collecting a sample. Field measurements of groundwater quality parameters, including temperature, pH, electrical conductivity, and total dissolved solids were collected during the purging process.

Following well purging, groundwater samples were placed directly into laboratory-provided containers and labeled with the date and time of collection, well designation, project name, sample collector's name, and parameters to be analyzed. Containers were immediately sealed and packed on ice to preserve samples. Samples were submitted to Eurofins Environmental Analysis Laboratory and subsequently Eurofins Environment Testing (formerly Hall) in Albuquerque, New Mexico, for analysis of BTEX following United State Environmental Protection Agency (EPA) Method 8021B or 8260B. Proper chain-of-custody procedures were followed documenting the date and time sampled, sample number, type of sample, sample collector's name, preservative used, analyses required, and sample collector's signature.

## GROUNDWATER ANALYTICAL RESULTS

During the June 2025 groundwater sampling event, BTEX constituents were not detected in well MW-7 at concentrations above laboratory reporting limits. During the subsequent December 2025 sampling event, benzene was detected in well MW-7 at a concentration of 86.9 µg/L, which exceeded the NMWQCC groundwater standard. Ethylbenzene (8.91 µg/L) and total xylenes (22.3 µg/L) were also detected during the December 2025 event; however, these constituents remained below their respective NMWQCC standards. Toluene was not detected during either sampling event. Analytical results are summarized in Table 2 and depicted on Figures 2 and 3, with complete laboratory analytical reports provided in Appendix A.

## CONCLUSIONS AND RECOMMENDATIONS

Overall, BTEX concentrations in groundwater from well MW-7 have decreased substantially over time, with benzene declining from elevated concentrations observed between 2016 and 2021 to much lower concentrations in 2024 and 2025. Although benzene results show short-term variability (i.e., reported below laboratory reporting limits in June 2025 followed by a detection of 86.9 µg/L in December 2025), benzene continues to exceed the NMWQCC standard. Total xylenes concentrations have similarly declined over time and were below the NMWQCC standard during both 2025 sampling events, despite intermittent exceedances in prior years. Toluene

concentrations have remained below the NMWQCC standard since 2015, and ethylbenzene concentrations have consistently remained below the NMWQCC standard since 2009. Historical analytical results, together with the interpreted north to northeast groundwater flow direction, indicate dissolved-phase COCs are likely confined to the immediate vicinity of MW-7.

Continued semiannual groundwater sampling of well MW-7 is recommended based on the long-term decreasing trend in BTEX concentrations and the short-term variability observed during the 2025 monitoring events. Semiannual monitoring will allow for continued evaluation of benzene concentration trends, confirmation of plume stability, and assessment of temporal variability.

Upon achieving compliance with applicable NMWQCC groundwater standards for benzene and other BTEX constituents in well MW-7, the monitoring frequency will transition to quarterly groundwater sampling. Quarterly monitoring will continue until eight consecutive compliant quarterly sampling events are achieved, at which time the incident will be considered for NMOCD closure.


Ensolum appreciates the opportunity to provide these environmental services to Hilcorp. Please contact either of the undersigned with any questions.

Sincerely,

**Ensolum, LLC**



Grace Swanson  
Associate Scientist  
(970) 759-0103  
gswanson@ensolum.com



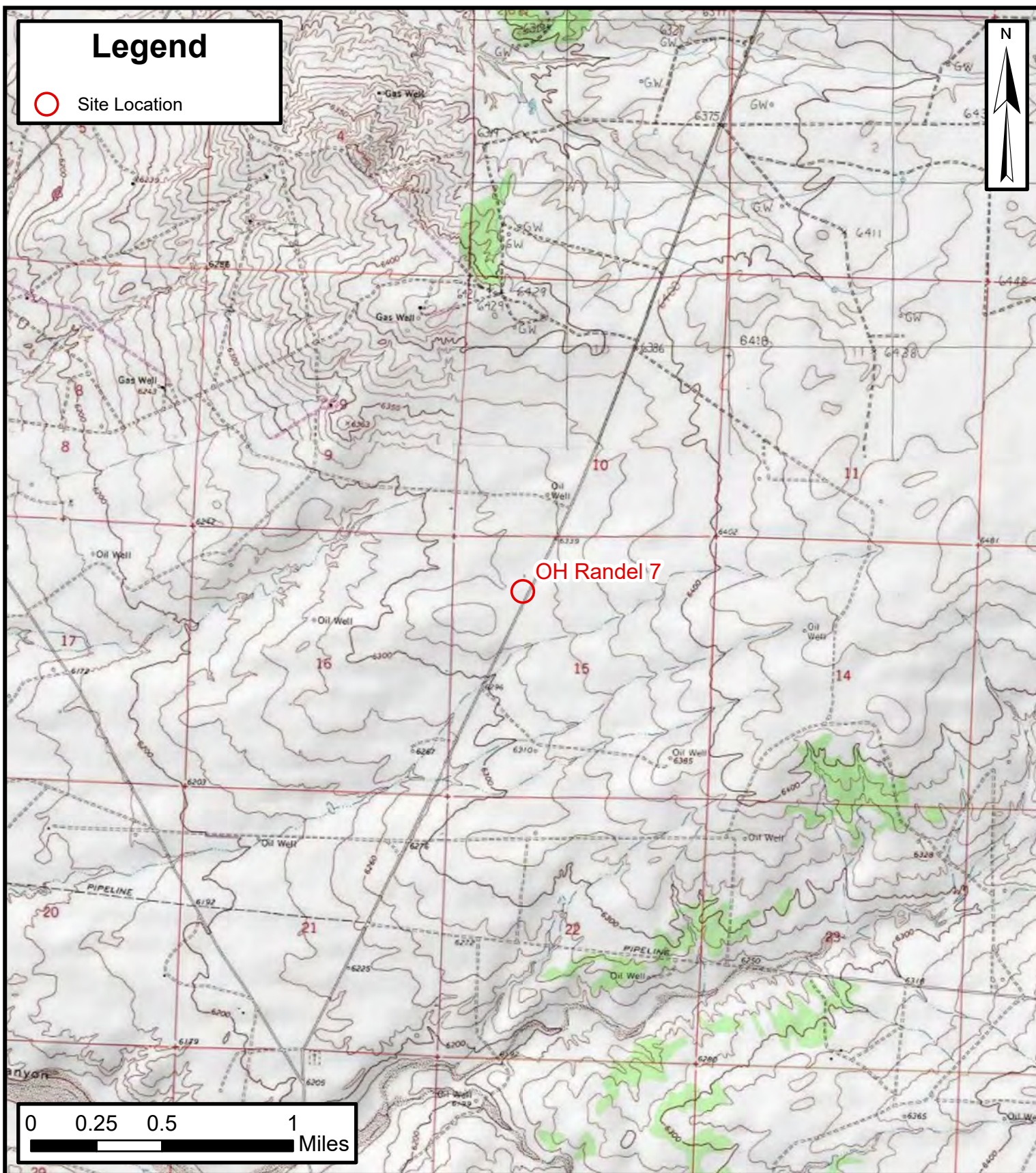
Wes Weichert, PG (Licensed in WY)  
Project Geologist  
(816) 266-8732  
wweichert@ensolum.com

**Attachments:**

- Figure 1 Site Location Map
- Figure 2 Groundwater Elevation and Analytical Results (June 2025)
- Figure 3 Groundwater Elevation and Analytical Results (December 2025)
  
- Table 1 Groundwater Elevations
- Table 2 Groundwater Analytical Results
  
- Appendix A Laboratory Analytical Reports



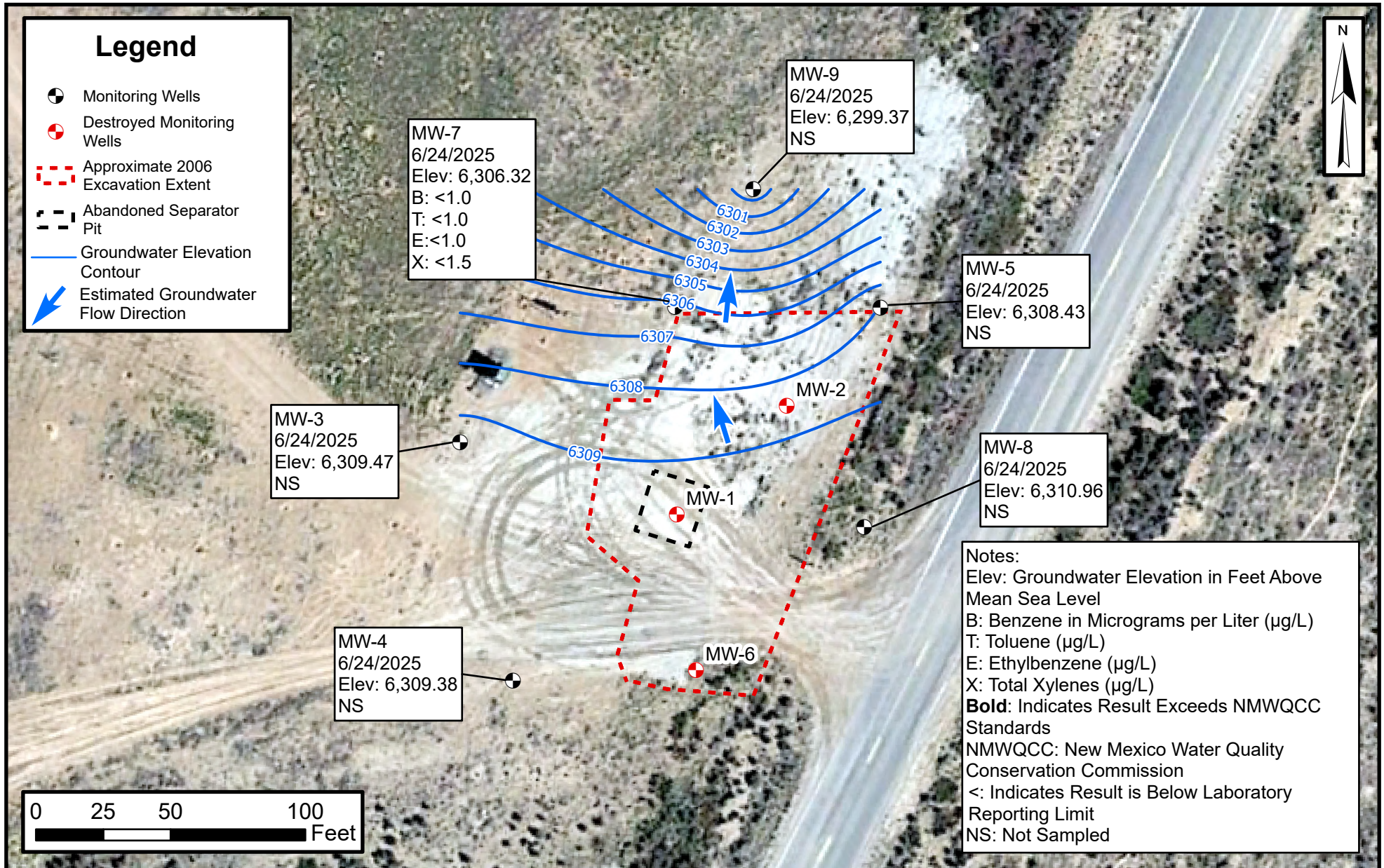
FIGURES



**Site Location Map**

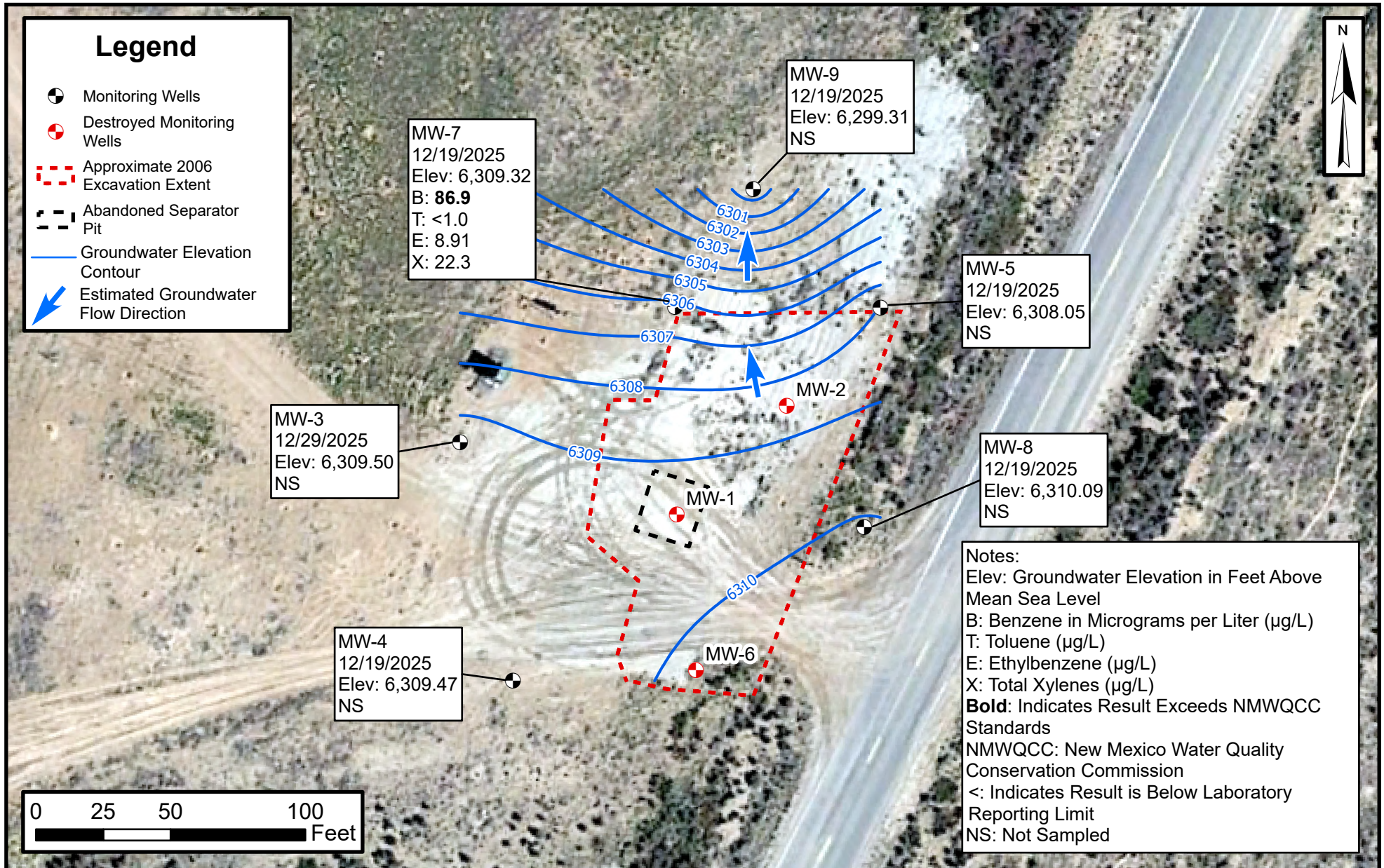
OH Randel #007  
Hilcorp Energy Company  
36.49196, -107.99549  
San Juan County, New Mexico

**FIGURE**  
**1**



**Groundwater Elevation and Analytical Results**  
**(June 2025)**  
 OH Randel 7  
 Hilcorp Energy Company  
 36.49196, -107.99549  
 San Juan County, New Mexico

**FIGURE**  
**2**



**Groundwater Elevation and Analytical Results**  
**(December 2025)**  
 OH Randel 7  
 Hilcorp Energy Company  
 36.49196, -107.99549  
 San Juan County, New Mexico

**FIGURE**  
**3**



TABLES

---



<b>TABLE 1</b> <b>GROUNDWATER ELEVATIONS</b> OH Randel #007 Hilcorp Energy Company San Juan County, New Mexico						
Well Identification	Top of Casing Elevation (feet AMSL)	Date	Depth to Groundwater (feet BTOC)	Depth to Product (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-1	No Survey Data	4/22/2002	16.63	16.30	0.33	--
		4/24/2002	--	--	--	--
		8/27/2002	16.49	16.19	0.30	--
		10/08/2002	16.16	15.79	0.37	--
		5/23/2003	16.04	15.73	0.31	--
		5/28/2003	15.99	15.81	0.18	--
		6/6/2003	16.04	15.93	0.11	--
		6/18/2003	16.04	15.97	0.07	--
		6/26/2003	17.93	17.85	0.08	--
		7/31/2003	16.19	16.18	0.01	--
		8/29/2003	16.29	--	--	--
		6/21/2004	17.09	16.28	0.81	--
		9/20/2006	22.28	0.00	22.28	--
		12/5/2006 *	--	--	--	--
MW-2	No Survey Data	4/22/2002	18.32	--	--	--
		4/24/2002	18.38	18.35	0.03	--
		8/27/2002	19.86	18.92	0.94	--
		10/08/2002	18.02	17.50	0.52	--
		5/23/2003	17.83	17.30	0.53	--
		5/28/2003	17.78	17.62	0.16	--
		6/6/2003	17.83	17.71	0.12	--
		6/18/2003	17.88	17.79	0.09	--
		6/26/2003	16.09	16.05	0.04	--
		7/31/2003	15.86	--	--	--
		8/29/2003	15.99	--	--	--
		6/21/2004	16.83	16.10	0.73	--
		9/20/2006	17.15	0.00	17.15	--
		12/5/2006 *	--	--	--	--
MW-3	6,329.21	4/22/2002	16.26	--	--	6,312.95
		4/24/2002	16.25	--	--	6,312.96
		8/27/2002	15.28	--	--	6,313.93
		10/8/2002	14.74	--	--	6,314.47
		3/3/2003	15.17	--	--	6,314.04
		6/18/2003	15.16	--	--	6,314.05
		8/29/2003	15.39	--	--	6,313.82
		9/20/2006	--	--	--	--
		12/5/2006	13.85	--	--	6,315.36
		3/8/2007	13.40	--	--	6,315.81
		5/17/2007	12.87	--	--	6,316.34
		8/9/2007	12.37	--	--	6,316.84
		5/12/2008	14.83	--	--	6,314.38



**TABLE 1**  
**GROUNDWATER ELEVATIONS**  
 OH Randel #007  
 Hilcorp Energy Company  
 San Juan County, New Mexico

Well Identification	Top of Casing Elevation (feet AMSL)	Date	Depth to Groundwater (feet BTOC)	Depth to Product (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-3	6,329.21	11/7/2008	13.92	--	--	6,315.29
		7/8/2009	14.14	--	--	6,315.07
		11/5/2009	14.53	--	--	6,314.68
		5/25/2010	14.21	--	--	6,315.00
		8/12/2010	--	--	--	--
		11/17/2010	15.30	--	--	6,313.91
		2/14/2011	--	--	--	--
		5/17/2011	15.74	--	--	6,313.47
		8/9/2011	15.87	--	--	6,313.34
		11/9/2011	16.21	--	--	6,313.00
		6/17/2013	17.32	--	--	6,311.89
		12/16/2013	16.88	--	--	6,312.33
		6/11/2014	18.60	--	--	6,310.61
		12/9/2014	17.37	--	--	6,311.84
		6/11/2015	18.45	--	--	6,310.76
		12/21/2015	17.55	--	--	6,311.66
		6/20/2016	18.86	--	--	6,310.35
		12/14/2016	17.86	--	--	6,311.35
		6/26/2017	18.11	--	--	6,311.10
		12/12/2017	18.28	--	--	6,310.93
		6/28/2018	18.65	--	--	6,310.56
		12/10/2018	18.77	--	--	6,310.44
		6/19/2019	19.25	--	--	6,309.96
		12/9/2019	18.90	--	--	6,310.31
		6/22/2020	19.30	--	--	6,309.91
		12/14/2020	19.16	--	--	6,310.05
		6/22/2021	19.51	--	--	6,309.70
12/6/2021	19.35	--	--	6,309.86		
6/16/2022	19.73	--	--	6,309.48		
12/29/2022	19.61	--	--	6,309.60		
3/22/2023	19.74	--	--	6,309.47		
12/5/2023	19.30	--	--	6,309.91		
6/14/2024	19.47	--	--	6,309.74		
12/20/2024	19.29	--	--	6,309.92		
6/24/2025	19.74	--	--	6,309.47		
12/29/2025	19.71	--	--	6,309.50		
MW-4	6,328.08	4/22/2002	16.63	--	--	6,311.45
		4/24/2002	16.66	--	--	6,311.42
		8/27/2002	16.47	--	--	6,311.61
		10/8/2002	16.03	--	--	6,312.05
		3/3/2003	15.94	--	--	6,312.14



**TABLE 1**  
**GROUNDWATER ELEVATIONS**  
 OH Randel #007  
 Hilcorp Energy Company  
 San Juan County, New Mexico

Well Identification	Top of Casing Elevation (feet AMSL)	Date	Depth to Groundwater (feet BTOC)	Depth to Product (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-4	6,328.08	6/18/2003	16.03	--	--	6,312.05
		8/29/2003	16.29	--	--	6,311.79
		9/20/2006	--	--	--	--
		12/5/2006	13.75	--	--	6,314.33
		3/8/2007	12.55	--	--	6,315.53
		5/17/2007	13.03	--	--	6,315.05
		8/9/2007	12.59	--	--	6,315.49
		5/12/2008	12.57	--	--	6,315.51
		11/7/2008	13.68	--	--	6,314.40
		7/8/2009	13.72	--	--	6,314.36
		11/5/2009	14.12	--	--	6,313.96
		5/25/2010	13.86	--	--	6,314.22
		8/12/2010	14.39	--	--	6,313.69
		11/17/2010	14.60	--	--	6,313.48
		2/14/2011	15.55	--	--	6,312.53
		5/17/2011	14.95	--	--	6,313.13
		8/9/2011	15.11	--	--	6,312.97
		11/9/2011	15.38	--	--	6,312.70
		6/17/2013	16.33	--	--	6,311.75
		12/16/2013	15.99	--	--	6,312.09
		6/11/2014	16.30	--	--	6,311.78
		12/9/2014	16.48	--	--	6,311.60
		6/11/2015	16.14	--	--	6,311.94
		12/21/2015	16.75	--	--	6,311.33
		6/20/2016	16.98	--	--	6,311.10
		12/14/2016	16.95	--	--	6,311.13
		6/26/2017	17.09	--	--	6,310.99
		12/12/2017	17.27	--	--	6,310.81
		6/28/2018	17.53	--	--	6,310.55
		12/10/2018	17.66	--	--	6,310.42
		6/19/2019	17.89	--	--	6,310.19
		12/9/2019	17.83	--	--	6,310.25
6/22/2020	18.09	--	--	6,309.99		
12/14/2020	18.06	--	--	6,310.02		
6/22/2021	18.31	--	--	6,309.77		
12/6/2021	18.32	--	--	6,309.76		
6/16/2022	18.45	--	--	6,309.63		
12/29/2022	18.54	--	--	6,309.54		
3/22/2023	18.67	--	--	6,309.41		
12/5/2023	18.03	--	--	6,310.05		
6/14/2024	18.43	--	--	6,309.65		



<b>TABLE 1</b> <b>GROUNDWATER ELEVATIONS</b> OH Randel #007 Hilcorp Energy Company San Juan County, New Mexico						
Well Identification	Top of Casing Elevation (feet AMSL)	Date	Depth to Groundwater (feet BTOC)	Depth to Product (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-4	6,328.08	12/20/2024	18.28	--	--	6,309.80
		6/24/2025	18.70	--	--	6,309.38
		12/19/2025	18.61	--	--	6,309.47
MW-5	6,333.23	4/22/2002	19.11	--	--	6,314.12
		4/24/2002	19.14	--	--	6,314.09
		8/10/2002	19.10	--	--	6,314.13
		6/18/2003	18.86	--	--	6,314.37
		6/21/2004	19.64	--	--	6,313.59
		6/28/2005	17.30	--	--	6,315.93
		9/20/2006	NM	--	--	--
		12/5/2006	18.65	--	--	6,314.58
		3/8/2007	18.15	--	--	6,315.08
		5/17/2007	17.78	--	--	6,315.45
		8/9/2007	NM	--	--	--
		5/12/2008	18.82	--	--	6,314.41
		11/7/2008	18.90	--	--	6,314.33
		7/8/2009	20.08	--	--	6,313.15
		11/5/2009	20.44	--	--	6,312.79
		5/25/2010	20.33	--	--	6,312.90
		8/12/2010	20.51	--	--	6,312.72
		11/17/2010	20.93	--	--	6,312.30
		2/14/2011	20.97	--	--	6,312.26
		5/17/2011	21.20	--	--	6,312.03
		8/9/2011	21.47	--	--	6,311.76
		11/9/2011	21.69	--	--	6,311.54
		6/17/2013	22.74	--	--	6,310.49
		12/16/2013	22.36	--	--	6,310.87
		6/11/2014	22.77	--	--	6,310.46
		12/9/2014	22.21	--	--	6,311.02
		6/11/2015	22.69	--	--	6,310.54
		12/21/2015	22.55	--	--	6,310.68
		6/20/2016	23.08	--	--	6,310.15
		12/14/2016	23.19	--	--	6,310.04
6/26/2017	23.28	--	--	6,309.95		
12/12/2017	23.45	--	--	6,309.78		
6/28/2018	24.76	--	--	6,308.47		
12/10/2018	23.99	--	--	6,309.24		
6/19/2019	24.18	--	--	6,309.05		
12/9/2019	24.24	--	--	6,308.99		
3/13/2020	24.30	--	--	6,308.93		
6/22/2020	24.39	--	--	6,308.84		



**TABLE 1**  
**GROUNDWATER ELEVATIONS**  
 OH Randel #007  
 Hilcorp Energy Company  
 San Juan County, New Mexico

Well Identification	Top of Casing Elevation (feet AMSL)	Date	Depth to Groundwater (feet BTOC)	Depth to Product (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-5	6,333.23	12/14/2020	24.55	--	--	6,308.68
		6/22/2021	24.69	--	--	6,308.54
		12/6/2021	27.76	--	--	6,305.47
		6/16/2022	24.96	--	--	6,308.27
		12/29/2022	24.76	--	--	6,308.47
		3/22/2023	24.76	--	--	6,308.47
		12/5/2023	24.69	--	--	6,308.54
		6/14/2024	24.88	--	--	6,308.35
		12/20/2024	24.52	--	--	6,308.71
		6/24/2025	24.80	--	--	6,308.43
12/19/2025	25.18	--	--	6,308.05		
MW-6	No Survey Data	4/22/2002	18.31	--	--	--
		4/24/2002	18.32	--	--	--
		8/27/2002	--	--	--	--
		10/8/2002	18.13	16.84	1.29	--
		5/23/2003	17.95	16.62	1.33	--
		5/28/2003	17.90	16.68	1.22	--
		6/6/2003	18.00	16.80	1.20	--
		6/18/2003	18.02	16.78	1.24	--
		6/26/2003	18.10	16.88	1.22	--
		7/31/2003	19.13	17.77	1.36	--
		8/29/2003	18.34	16.88	1.46	--
		6/21/2004	18.95	17.78	1.17	--
9/20/2006	16.87	15.79	1.08	--		
12/5/2006 *	--	--	--	--		
MW-7	6,331.36	5/17/2007	15.46	--	--	6,315.90
		8/9/2007	14.72	--	--	6,316.64
		11/27/2007	14.91	--	--	6,316.45
		5/12/2008	15.12	--	--	6,316.24
		11/7/2008	15.82	--	--	6,315.54
		7/8/2009	16.44	--	--	6,314.92
		11/5/2009	16.76	--	--	6,314.60
		5/25/2010	16.63	--	--	6,314.73
		8/12/2010	16.82	--	--	6,314.54
		11/17/2010	17.65	--	--	6,313.71
		2/14/2011	17.74	--	--	6,313.62
		5/17/2011	17.92	--	--	6,313.44
		8/9/2011	18.11	--	--	6,313.25
		11/9/2011	18.46	--	--	6,312.90
6/17/2013	19.45	--	--	6,311.91		
12/16/2013	19.39	--	--	6,311.97		



**TABLE 1  
GROUNDWATER ELEVATIONS  
OH Randel #007  
Hilcorp Energy Company  
San Juan County, New Mexico**

Well Identification	Top of Casing Elevation (feet AMSL)	Date	Depth to Groundwater (feet BTOC)	Depth to Product (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-7	6,331.36	6/11/2014	19.56	--	--	6,311.80
		12/9/2014	19.67	--	--	6,311.69
		6/11/2015	19.40	--	--	6,311.96
		12/21/2015	19.50	--	--	6,311.86
		6/20/2016	19.91	--	--	6,311.45
		12/14/2016	20.04	--	--	6,311.32
		6/26/2017	20.33	--	--	6,311.03
		12/12/2017	20.44	--	--	6,310.92
		6/28/2018	20.91	--	--	6,310.45
		12/10/2018	20.94	--	--	6,310.42
		6/19/2019	21.15	--	--	6,310.21
		12/9/2019	20.95	--	--	6,310.41
		6/22/2020	21.21	--	--	6,310.15
		12/14/2020	21.16	--	--	6,310.20
		6/22/2021	21.38	--	--	6,309.98
		12/6/2021	21.34	--	--	6,310.02
		6/16/2022	25.21	--	--	6,306.15
		12/29/2022	26.19	--	--	6,305.17
		3/22/2023	27.42	--	--	6,303.94
		12/5/2023	22.53	--	--	6,308.83
2/6/2024	21.58	--	--	6,309.78		
6/14/2024	22.43	--	--	6,308.93		
12/20/2024	22.20	--	--	6,309.16		
6/24/2025	25.04	--	--	6,306.32		
12/15/2025	26.23	--	--	6,305.13		
12/19/2025	25.04	--	--	6,306.32		
MW-8	6,334.50	5/17/2007	19.64	--	--	6,314.86
		8/9/2007	18.94	--	--	6,315.56
		11/27/2007	19.20	--	--	6,315.30
		5/12/2008	19.97	--	--	6,314.53
		11/7/2008	19.55	--	--	6,314.95
		7/8/2009	20.01	--	--	6,314.49
		11/5/2009	20.41	--	--	6,314.09
		5/25/2010	20.31	--	--	6,314.19
		8/12/2010	20.41	--	--	6,314.09
		11/17/2010	20.63	--	--	6,313.87
		2/14/2011	20.35	--	--	6,314.15
		5/17/2011	20.30	--	--	6,314.20
		8/9/2011	20.83	--	--	6,313.67
		11/9/2011	21.00	--	--	6,313.50
6/17/2013	22.17	--	--	6,312.33		



**TABLE 1**  
**GROUNDWATER ELEVATIONS**  
 OH Randel #007  
 Hilcorp Energy Company  
 San Juan County, New Mexico

Well Identification	Top of Casing Elevation (feet AMSL)	Date	Depth to Groundwater (feet BTOC)	Depth to Product (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-8	6,334.50	12/16/2013	21.40	--	--	6,313.10
		6/11/2014	22.09	--	--	6,312.41
		12/9/2014	22.80	--	--	6,311.70
		6/11/2015	21.76	--	--	6,312.74
		12/21/2015	22.83	--	--	6,311.67
		6/20/2016	22.40	--	--	6,312.10
		12/14/2016	23.54	--	--	6,310.96
		6/26/2017	22.28	--	--	6,312.22
		12/12/2017	22.70	--	--	6,311.80
		6/28/2018	23.02	--	--	6,311.48
		12/10/2018	23.21	--	--	6,311.29
		6/19/2019	23.28	--	--	6,311.22
		12/9/2019	23.50	--	--	6,311.00
		6/22/2020	23.85	--	--	6,310.65
		12/14/2020	24.27	--	--	6,310.23
		6/22/2021	24.82	--	--	6,309.68
		12/6/2021	25.51	--	--	6,308.99
		6/16/2022	25.57	--	--	6,308.93
		12/29/2022	23.33	--	--	6,311.17
		3/22/2023	23.45	--	--	6,311.05
12/5/2023	23.33	--	--	6,311.17		
6/14/2024	23.56	--	--	6,310.94		
12/20/2024	23.43	--	--	6,311.07		
6/24/2025	23.54	--	--	6,310.96		
12/19/2025	24.41	--	--	6,310.09		
MW-9	6,330.36	7/8/2009	35.26	--	--	6,295.10
		11/5/2009	33.08	--	--	6,297.28
		5/25/2010	29.28	--	--	6,301.08
		8/12/2010	31.12	--	--	6,299.24
		5/25/2010	20.31	--	--	6,310.05
		8/12/2010	20.41	--	--	6,309.95
		11/17/2010	30.49	--	--	6,299.87
		2/14/2011	31.60	--	--	6,298.76
		5/17/2011	30.39	--	--	6,299.97
		8/9/2011	29.84	--	--	6,300.52
		11/9/2011	28.76	--	--	6,301.60
		6/17/2013	28.36	--	--	6,302.00
		12/16/2013	27.97	--	--	6,302.39
		6/11/2014	28.68	--	--	6,301.68
		12/9/2014	28.45	--	--	6,301.91
6/11/2015	28.98	--	--	6,301.38		



**TABLE 1**  
**GROUNDWATER ELEVATIONS**  
 OH Randel #007  
 Hilcorp Energy Company  
 San Juan County, New Mexico

Well Identification	Top of Casing Elevation (feet AMSL)	Date	Depth to Groundwater (feet BTOC)	Depth to Product (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-9	6,630.36	12/21/2015	28.22	--	--	6,302.14
		6/20/2016	28.66	--	--	6,301.70
		12/14/2016	28.42	--	--	6,301.94
		6/26/2017	29.05	--	--	6,301.31
		12/12/2017	29.00	--	--	6,301.36
		6/28/2018	29.48	--	--	6,300.88
		12/10/2018	29.48	--	--	6,300.88
		6/19/2019	30.09	--	--	6,300.27
		12/9/2019	30.20	--	--	6,300.16
		6/22/2020	30.50	--	--	6,299.86
		12/14/2020	30.32	--	--	6,300.04
		6/22/2021	30.54	--	--	6,299.82
		12/6/2021	30.63	--	--	6,299.73
		6/16/2022	30.84	--	--	6,299.52
		12/29/2022	30.97	--	--	6,299.39
		3/22/2023	30.83	--	--	6,299.53
		12/5/2023	31.44	--	--	6,298.92
		6/14/2024	31.10	--	--	6,299.26
12/20/2024	30.82	--	--	6,299.54		
6/24/2025	30.99	--	--	6,299.37		
12/19/2025	31.05	--	--	6,299.31		

**Notes:**

Wells previously destroyed and/or plugged and abandoned are not presented on this table.

AMSL: above mean sea level

BTOC: below top of casing

--: indicates no GWEL or PSH measured



<b>TABLE 2</b> <b>GROUNDWATER ANALYTICAL RESULTS</b> OH Randel #007 Hilcorp Energy Company San Juan County, New Mexico					
Well Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>NMWQCC Standards</b>		<b>5.0</b>	<b>1,000</b>	<b>700</b>	<b>620</b>
<b>MW-3</b>	4/24/2002	24	2.4	0.58	200
	8/27/2002	9.4	ND	ND	150
	3/3/2003	5.5	ND	ND	43
	6/18/2003	6.1	0.97	ND	43
	8/29/2003	3.2	0.53	ND	24
	12/5/2006	<1.0	<1.0	<1.0	<3.0
	3/8/2007	ND	ND	ND	3.8
	5/17/2007	<1.0	<1.0	<1.0	<2.0
	8/9/2007	<1.0	<1.0	<1.0	<2.0
<b>MW-4</b>	4/24/2002	ND	0.59	ND	2.1
	8/27/2002	1.3	ND	ND	3.5
	3/3/2003	4.2	ND	ND	5
	6/18/2003	6.2	ND	ND	4.5
	8/29/2003	8.3	ND	ND	4.3
	12/5/2006	<1.0	<1.0	<1.0	<3.0
	3/8/2007	ND	ND	ND	ND
	5/17/2007	<1.0	<1.0	<1.0	<2.0
	8/9/2007	<1.0	<1.0	<1.0	<2.0
<b>MW-5</b>	4/24/2002	510	0.64	8.9	240
	6/18/2003	1,100	20	ND	660
	6/21/2004	2,000	ND	ND	260
	6/28/2005	1,100	15	ND	160
	12/5/2006	37	<1.0	<1.0	4.1
	3/8/2007	ND	ND	ND	ND
	5/17/2007	<1.0	<1.0	<1.0	<2.0
<b>MW-6</b>	4/24/2002	6,100	4,800	920	6,600
<b>MW-7</b>	5/17/2007	8,500	17,000	980	16,000
	8/9/2007	9,800	11,000	770	12,000
	11/27/2007	12,000	9,000	940	13,000
	5/12/2008	7,900	11,000	830	12,000
	11/7/2008	12,000	16,000	1,100	17,000
	7/8/2009	9,800	8,200	<100	12,000
	11/5/2009	9,800	7,900	570	13,000



**TABLE 2  
GROUNDWATER ANALYTICAL RESULTS  
OH Randel #007  
Hilcorp Energy Company  
San Juan County, New Mexico**

Well Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>NMWQCC Standards</b>		<b>5.0</b>	<b>1,000</b>	<b>700</b>	<b>620</b>
<b>MW-7</b>	5/25/2010	7,200	3,800	440	11,000
	8/12/2010	82	58	9.2	200
	11/17/2010	5,200	5,500	76	3,400
	2/14/2011	2,200	1,000	<120	1,800
	5/17/2011	500	190	16	180
	8/9/2011	81.3	36.9	5.3	39.4
	11/9/2011	26	16	2.3	20
	6/17/2013	0.72	<5.0	<0.50	<1.5
	12/16/2013	130	<50	7.6	62
	6/11/2014	7,600	6,400	100	5,900
	12/9/2014	9,400	2,600	250	6,100
	6/11/2015	8,300	960	410	7,200
	12/21/2015	9,040	67.6	465	7,310
	6/20/2016	9,160	412	615	8,750
	12/14/2016	8,400	368	284	6,950
	6/26/2017	6,580	<10.0	126	3,950
	12/12/2017	9,050	<50.0	406	7,020
	6/28/2018	8,300	6.20	220	6,100
	12/10/2018	8,400	<10.0	320	6,200
	6/19/2019	14,000	<50	540	12,000
	12/9/2019	6,800	<50	330	5,700
	6/22/2020	830	<5.0	22	640
	12/14/2020	9,400	<20	470	6,600
	6/22/2021	5,400	<5.0	250	4,000
	12/6/2021	7,400	<10	460	5,900
	6/16/2022	3,700	<10	240	3,200
	12/29/2022	3,400	<10	230	2,300
	3/22/2023	2,700	<10	28	1,800
12/5/2023	1,600	<10	130	530	
6/14/2024	160	2.20	11.0	110	
12/20/2024	26	<2.0	<2.0	16.0	
6/24/2025	<1.0	<1.0	<1.0	<1.5	
12/19/2025	86.9	<1.0	8.91	22.3	
<b>MW-8</b>	5/17/2007	<1.0	1.90	<1.0	3.7



<b>TABLE 2</b> <b>GROUNDWATER ANALYTICAL RESULTS</b> OH Randel #007 Hilcorp Energy Company San Juan County, New Mexico					
Well Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>NMWQCC Standards</b>		<b>5.0</b>	<b>1,000</b>	<b>700</b>	<b>620</b>
<b>MW-8</b>	8/9/2007	<1.0	<1.0	<1.0	<2.0
	11/27/2007	<b>21.0</b>	<1.0	<1.0	<2.0
	5/12/2008	1.4	<1.0	<1.0	<2.0
	11/7/2008	1.2	<1.0	<1.0	<2.0
	7/8/2009	p	<1.0	<1.0	<2.0
	11/5/2009	1.1	<1.0	<1.0	<2.0
<b>MW-9</b>	7/8/2009	<b>91</b>	160	6.9	100
	11/30/2009	<1.0	<1.0	<1.0	<2.0
	5/25/2010	<1.0	<1.0	<1.0	<2.0
	8/12/2010	<0.5	<5.0	<0.5	<1.5
	11/17/2010	2.4	<5.0	<0.5	<1.5

**Notes:**

Wells previously destroyed and/or plugged and abandoned are not presented on this table.

µg/L: micrograms per liter

ND: not detected above laboratory reporting limit

NMWQCC: New Mexico Water Quality Control Commission

<: indicates result less than the stated laboratory reporting limit (RL)

Concentrations in **bold** and highlighted exceed the New Mexico Water Quality Control Commission Standards, 20.6.2.3103 of the New Mexico Administrative Code.



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Kate Kaufman  
Hilcorp Energy  
PO BOX 4700  
Farmington, New Mexico 87499

Generated 7/7/2025 2:28:25 PM

## JOB DESCRIPTION

OH Randal #7

## JOB NUMBER

885-27760-1

Eurofins Albuquerque  
4901 Hawkins NE  
Albuquerque NM 87109





## APPENDIX A

# Laboratory Analytical Reports

# Eurofins Albuquerque

## Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

## Authorization



Generated  
7/7/2025 2:28:25 PM

Authorized for release by  
Michelle Garcia, Project Manager  
[michelle.garcia@et.eurofinsus.com](mailto:michelle.garcia@et.eurofinsus.com)  
(505)345-3975

Client: Hilcorp Energy  
Project/Site: OH Randal #7

Laboratory Job ID: 885-27760-1



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	6
QC Sample Results . . . . .	7
QC Association Summary . . . . .	8
Lab Chronicle . . . . .	9
Certification Summary . . . . .	10
Chain of Custody . . . . .	11
Receipt Checklists . . . . .	12

## Definitions/Glossary

Client: Hilcorp Energy  
Project/Site: OH Randal #7

Job ID: 885-27760-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: Hilcorp Energy  
Project: OH Randal #7

Job ID: 885-27760-1

**Job ID: 885-27760-1**

**Eurofins Albuquerque**

## Job Narrative 885-27760-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The sample was received on 6/28/2025 7:55 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C.

### GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque



### Client Sample Results

Client: Hilcorp Energy  
 Project/Site: OH Randal #7

Job ID: 885-27760-1

**Client Sample ID: MW-7**

**Lab Sample ID: 885-27760-1**

Date Collected: 06/24/25 13:00

Matrix: Water

Date Received: 06/28/25 07:55

**Method: SW846 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			07/04/25 00:27	1
Ethylbenzene	ND		1.0	ug/L			07/04/25 00:27	1
Toluene	ND		1.0	ug/L			07/04/25 00:27	1
Xylenes, Total	ND		1.5	ug/L			07/04/25 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		07/04/25 00:27	1
4-Bromofluorobenzene (Surr)	89		70 - 130		07/04/25 00:27	1
Dibromofluoromethane (Surr)	106		70 - 130		07/04/25 00:27	1
Toluene-d8 (Surr)	94		70 - 130		07/04/25 00:27	1

### QC Sample Results

Client: Hilcorp Energy  
 Project/Site: OH Randal #7

Job ID: 885-27760-1

#### Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-29543/4  
 Matrix: Water  
 Analysis Batch: 29543

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			07/03/25 15:25	1
Ethylbenzene	ND		1.0	ug/L			07/03/25 15:25	1
Toluene	ND		1.0	ug/L			07/03/25 15:25	1
Xylenes, Total	ND		1.5	ug/L			07/03/25 15:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		07/03/25 15:25	1
4-Bromofluorobenzene (Surr)	91		70 - 130		07/03/25 15:25	1
Dibromofluoromethane (Surr)	111		70 - 130		07/03/25 15:25	1
Toluene-d8 (Surr)	94		70 - 130		07/03/25 15:25	1

Lab Sample ID: LCS 885-29543/3  
 Matrix: Water  
 Analysis Batch: 29543

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.0	19.7		ug/L		98	70 - 130
Toluene	20.0	19.0		ug/L		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
Toluene-d8 (Surr)	97		70 - 130

### QC Association Summary

Client: Hilcorp Energy  
Project/Site: OH Randal #7

Job ID: 885-27760-1

#### GC/MS VOA

#### Analysis Batch: 29543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27760-1	MW-7	Total/NA	Water	8260B	
MB 885-29543/4	Method Blank	Total/NA	Water	8260B	
LCS 885-29543/3	Lab Control Sample	Total/NA	Water	8260B	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

### Lab Chronicle

Client: Hilcorp Energy  
Project/Site: OH Randal #7

Job ID: 885-27760-1

**Client Sample ID: MW-7**

**Lab Sample ID: 885-27760-1**

**Date Collected: 06/24/25 13:00**

**Matrix: Water**

**Date Received: 06/28/25 07:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	29543	RA	EET ALB	07/04/25 00:27

**Laboratory References:**

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

### Accreditation/Certification Summary

Client: Hilcorp Energy  
Project/Site: OH Randal #7

Job ID: 885-27760-1

#### Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date																				
New Mexico	State	NM9425, NM0901	02-27-26																				
<p>The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.</p> <table border="1"> <thead> <tr> <th>Analysis Method</th> <th>Prep Method</th> <th>Matrix</th> <th>Analyte</th> </tr> </thead> <tbody> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Benzene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Ethylbenzene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Toluene</td> </tr> <tr> <td>8260B</td> <td></td> <td>Water</td> <td>Xylenes, Total</td> </tr> </tbody> </table>				Analysis Method	Prep Method	Matrix	Analyte	8260B		Water	Benzene	8260B		Water	Ethylbenzene	8260B		Water	Toluene	8260B		Water	Xylenes, Total
Analysis Method	Prep Method	Matrix	Analyte																				
8260B		Water	Benzene																				
8260B		Water	Ethylbenzene																				
8260B		Water	Toluene																				
8260B		Water	Xylenes, Total																				
Oregon	NELAP	NM100001	02-26-26																				

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11



### Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-27760-1

**Login Number: 27760**

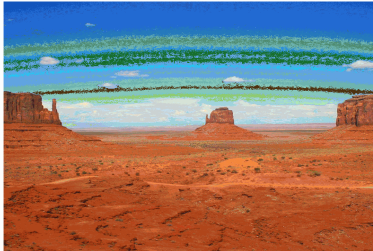
**List Number: 1**

**Creator: McQuiston, Steven**

**List Source: Eurofins Albuquerque**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Report to:  
Kate Kaufman



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Hilcorp Energy Co

Project Name: OH Randel 7

Work Order: E512191

Job Number: 17051-0002

Received: 12/19/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/31/25

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 12/31/25

Kate Kaufman  
PO Box 61529  
Houston, TX 77208

Project Name: OH Randel 7  
Workorder: E512191  
Date Received: 12/19/2025 11:50:00AM

Kate Kaufman,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/19/2025 11:50:00AM, under the Project Name: OH Randel 7.

The analytical test results summarized in this report with the Project Name: OH Randel 7 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
MW-7	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA 8260B	6
Definitions and Notes	7
Chain of Custody etc.	8

### Sample Summary

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: OH Randel 7 Project Number: 17051-0002 Project Manager: Kate Kaufman	<b>Reported:</b> 12/31/25 10:56
--	--	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
MW-7	E512191-01A	Aqueous	12/19/25	12/19/25	VOA Vial, 40mL; HCl
	E512191-01B	Aqueous	12/19/25	12/19/25	VOA Vial, 40mL; HCl
	E512191-01C	Aqueous	12/19/25	12/19/25	VOA Vial, 40mL; HCl



### Sample Data

Hilcorp Energy Co PO Box 61529 Houston TX, 77208	Project Name: OH Randel 7 Project Number: 17051-0002 Project Manager: Kate Kaufman	<b>Reported:</b> 12/31/2025 10:56:56AM
--	--	---

**MW-7**

**E512191-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	ug/L	ug/L	Analyst: BA		Batch: 2553007	
Benzene	<b>86.9</b>	1.00	1	12/30/25	12/30/25	
Ethylbenzene	<b>8.91</b>	1.00	1	12/30/25	12/30/25	
Toluene	ND	1.00	1	12/30/25	12/30/25	
o-Xylene	ND	1.00	1	12/30/25	12/30/25	
p,m-Xylene	<b>22.3</b>	2.00	1	12/30/25	12/30/25	
Total Xylenes	<b>22.3</b>	1.00	1	12/30/25	12/30/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>99.5 %</i>	<i>70-130</i>		<i>12/30/25</i>	<i>12/30/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>99.8 %</i>	<i>70-130</i>		<i>12/30/25</i>	<i>12/30/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>90.7 %</i>	<i>70-130</i>		<i>12/30/25</i>	<i>12/30/25</i>	



### QC Summary Data

Hilcorp Energy Co	Project Name: OH Randel 7	<b>Reported:</b> 12/31/2025 10:56:56AM
PO Box 61529	Project Number: 17051-0002	
Houston TX, 77208	Project Manager: Kate Kaufman	

#### Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
	ug/L	ug/L	ug/L	ug/L	%	%	%	%	

**Blank (2553007-BLK1)**

Prepared: 12/29/25 Analyzed: 12/29/25

Benzene	ND	1.00							
Ethylbenzene	ND	1.00							
Toluene	ND	1.00							
o-Xylene	ND	1.00							
p,m-Xylene	ND	2.00							
Total Xylenes	ND	1.00							
Surrogate: Bromofluorobenzene	10.1		10.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	9.72		10.0		97.2	70-130			
Surrogate: Toluene-d8	9.12		10.0		91.2	70-130			

**LCS (2553007-BS1)**

Prepared: 12/29/25 Analyzed: 12/29/25

Benzene	53.5	1.00	50.0		107	70-130			
Ethylbenzene	51.3	1.00	50.0		103	80-120			
Toluene	48.9	1.00	50.0		97.7	80-120			
o-Xylene	50.4	1.00	50.0		101	70-130			
p,m-Xylene	101	2.00	100		101	70-130			
Total Xylenes	152	1.00	150		101	70-130			
Surrogate: Bromofluorobenzene	10.2		10.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	10.0		10.0		100	70-130			
Surrogate: Toluene-d8	9.25		10.0		92.5	70-130			

**LCS Dup (2553007-BSD1)**

Prepared: 12/29/25 Analyzed: 12/29/25

Benzene	52.1	1.00	50.0		104	70-130	2.67	20	
Ethylbenzene	50.5	1.00	50.0		101	80-120	1.69	20	
Toluene	47.9	1.00	50.0		95.8	80-120	2.03	20	
o-Xylene	50.0	1.00	50.0		100	70-130	0.737	20	
p,m-Xylene	101	2.00	100		101	70-130	0.583	20	
Total Xylenes	151	1.00	150		101	70-130	0.634	20	
Surrogate: Bromofluorobenzene	10.3		10.0		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	9.68		10.0		96.8	70-130			
Surrogate: Toluene-d8	9.15		10.0		91.5	70-130			

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



### Definitions and Notes

Hilcorp Energy Co	Project Name:	OH Randel 7	
PO Box 61529	Project Number:	17051-0002	<b>Reported:</b>
Houston TX, 77208	Project Manager:	Kate Kaufman	12/31/25 10:56

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Client Information				Invoice Information			Lab Use Only				TAT			State				
Client: <u>Hilcorp Energy Company</u>				Company: <u>SAME AS</u>			Lab WO# <u>E512191</u>		Job Number <u>1705160002</u>		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: <u>OH Randel T</u>				Address: <u>CLIENT</u>											<input checked="" type="checkbox"/>			
Project Manager: <u>Kate Kaufman</u>				City, State, Zip: <u>CLIENT</u>														
Address:				Phone:														
City, State, Zip:				Email:														
Phone:				Miscellaneous: <u>✓</u>														
Email: <u>kkaufman@hilcorp.com</u>																		
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
1040	12/19/25	W	3, NOA	MW-7		1			<del>XXXX</del>									
									CM									
																	4.6	
																	Changed Analysis to BTEX per Client. 12/19/25 CM	
Additional Instructions: cc: <u>shyde@ensolum.com, wweichert@ensolum.com, hpeck@ensolum.com</u>																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: <u>Harper Peck</u>																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.										
<u>Harper Peck</u>		12/19/25	1149	<u>Carla Ma</u>		12-19-25	11:50	Lab Use Only										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C _____										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		

Chain of Custody

Received by OCD: 3/2/2026 12:27:06 PM

Client Information				Invoice Information			Lab Use Only				TAT				State				
Client: <u>Hilcorp Energy Company</u>				Company: _____			Lab WO# <u>E512191</u>		Job Number <u>17051-0002</u>		1D	2D	3D	Std	NM	CO	UT	TX	
Project Name: <u>OH Randel 7</u>				Address: <u>SAME AS</u>											<input checked="" type="checkbox"/>				
Project Manager: <u>Kate Kaufman</u>				City, State, Zip: <u>CLIENT</u>															
Address: _____				Phone: _____															
City, State, Zip: _____				Email: _____															
Phone: _____				Miscellaneous: _____															
Email: <u>kkaufman@hilcorp.com</u>																			
Sample Information										Analysis and Method						EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
<u>1040</u>	<u>12/19/25</u>	<u>W</u>	<u>3,VOA</u>	<u>MW-7</u>			<u>1</u>				<u>X</u>								
Additional Instructions: <u>cc: shyde@ensolum.com, wweichert@ensolum.com, hpeck@ensolum.com</u>																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: <u>Harper Peck</u>																			
Relinquished by: (Signature) <u>Harper Peck</u>		Date <u>12/19/25</u>	Time <u>1149</u>	Received by: (Signature) <u>Caith Ma</u>		Date <u>12-19-25</u>	Time <u>11:50</u>	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <u>(Y) N</u>											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C _____											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____									
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Released to Imaging: 5/22/2026 2:38:34 PM



Page 41 of 45

### Envirotech Analytical Laboratory

Printed: 12/19/2025 1:53:20PM

#### Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Hilcorp Energy Co	Date Received: 12/19/25 11:50	Work Order ID: E512191
Phone: 505-599-3400	Date Logged In: 12/19/25 13:50	Logged In By: Caitlin Mars
Email: kkaufman@hilcorp.com	Due Date: 12/31/25 17:00 (5 day TAT)	

#### Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
- 5. Were all samples received within holding time? Yes

Carrier: Harper Peck

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

#### Comments/Resolution

#### Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

#### Sample Cooler

- 7. Was a sample cooler received? Yes
- 8. If yes, was cooler received in good condition? Yes
- 9. Was the sample(s) received intact, i.e., not broken? Yes
- 10. Were custody/security seals present? No
- 11. If yes, were custody/security seals intact? NA
- 12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

#### Sample Container

- 14. Are aqueous VOC samples present? Yes
- 15. Are VOC samples collected in VOA Vials? Yes
- 16. Is the head space less than 6-8 mm (pea sized or less)? Yes
- 17. Was a trip blank (TB) included for VOC analyses? No
- 18. Are non-VOC samples collected in the correct containers? Yes
- 19. Is the appropriate volume/weight or number of sample containers collected? Yes

#### Field Label

- 20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

#### Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? Yes
- 22. Are sample(s) correctly preserved? Yes
- 24. Is lab filtration required and/or requested for dissolved metals? No

#### Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
- 27. If yes, does the COC specify which phase(s) is to be analyzed? NA

#### Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
- 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

#### Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

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 559033

**CONDITIONS**

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 559033
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

**CONDITIONS**

Created By	Condition	Condition Date
owen.sitler	1) Continue semiannual groundwater monitoring as prescribed	5/22/2026
owen.sitler	2) Submit to OCD the 2026 Annual Groundwater Report no later than April 2, 2027	5/22/2026