**RECEIVED** By Mike Buchanan at 3:23 pm, May 30, 2024



March 29, 2024

### New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505 2023 Ann

Re: 2023 Annual Groundwater Monitoring Report OH Randel #007 San Juan County, New Mexico Hilcorp Energy Company NMOCD Incident Number: NAUTOFWCO00434

2023 Annual Groundwater Monitoring Report for OH Randel #007 has been received for the record.

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this 2023 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 2023. 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

Comprehensive Site background history, work plans, and reports prepared for the Site are available on the NMOCD database. In December of 2017, Hilcorp acquired the Site from XTO Energy, Inc. and continued to perform semi-annual monitoring of groundwater. Previous annual groundwater reports submitted by Hilcorp to the NMOCD recommended semi-annual gauging of all Site wells and groundwater sampling from well MW-7 for benzene, toluene, ethylbenzene and total xylenes (BTEX) analysis. A summary of historical and current groundwater elevations is presented in Table 1, with laboratory analytical results presented in Table 2.

### 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 ( $\mu$ g/L).

- Benzene: 5.0 µg/L
- Toluene: 1,000 µg/L
- Ethylbenzene: 700 µg/L
- Total Xylenes: 620 µg/L

### **GROUNDWATER SAMPLING ACTIVITIES AND RESULTS**

Groundwater level measurements were collected in March and December 2023 from wells MW-3, MW-4, MW-5, MW-7, MW-8, and MW-9. Groundwater samples were also collected from well MW-7 during these events for laboratory analysis. Static groundwater level monitoring included recording depth-to-groundwater 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 quarterly measurements, groundwater elevations are relatively stable. Measured depths-to-groundwater and calculated groundwater elevations are presented in Table 1. The inferred groundwater flow direction is to the north as indicated on the groundwater potentiometric surface maps presented on Figures 2 and 3.

### **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 Hall 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 March 2023 sampling event, benzene and total xylenes were detected in groundwater from well MW-7 at concentrations exceeding the NMWQCC standards. Benzene was also detected above the NMWQCC standard during the December 2023 sampling event. Toluene and ethylbenzene were either not detected above laboratory reporting limits or were detected at concentrations in compliance with the NMWQCC standards during both sampling events. Analytical results are summarized in Table 2 and depicted on Figures 2 and 3, with complete laboratory analytical reports attached as Appendix A.

#### **CONCLUSIONS AND RECOMMENDATIONS**

Overall, BTEX concentrations in groundwater from MW-7 have decreased over time. Although decreasing, concentrations of dissolved benzene continue to exceed the NMWQCC standard. Total xylenes concentrations have also decreased over time and have occasionally been in compliance with the NMWQCC standard, most recently in December 2023. However, concentrations generally continue to exceed the NMWQCC standard. Concentrations of toluene and ethylbenzene have been in compliance with the NMWQCC standards since 2015 and 2009, respectively. Based on historical sampling results and groundwater flow direction, elevated COCs appear to be confined to groundwater in a limited area surrounding MW-7.

In addition, groundwater samples have historically been collected during the second and fourth quarters of the year. Due to an internal error, Hilcorp sampled groundwater in March 2023 instead of during the second quarter. However, a review of sample results from well MW-7 indicated that they were consistent with historical sampling events conducted during the second quarter of the year. As such, this data point was determined to be representative of Site conditions and was



used as a replacement for the second quarter sample. The second yearly sample was again collected during the fourth quarter of 2023.

Based on current and historical data gathered at the Site, Ensolum/Hilcorp recommend the following actions:

- Install Oxygen Release Compound (ORC<sup>®</sup>) socks in well MW-7. Regenesis ORC<sup>®</sup> socks produce a controlled release of molecular oxygen to increase oxygen levels in the groundwater, thus contributing to aerobic groundwater conditions and stimulating through enhanced microbial action and biodegradation of petroleum hydrocarbon. This will be performed in the first quarter of 2024.
- Continue semi-annual gauging of all remaining active monitoring wells and semi-annual sampling of MW-7. Sampling will revert back to sampling in the second and fourth quarters of the year.
- Field screen for oxidation-reduction potential (ORP) and dissolved oxygen (DO) values in well MW-7 during semi-annual sampling events to assess if the installation of ORC<sup>®</sup> socks is effective in contributing to aerobic groundwater conditions at the Site.

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

Sincerely,

Ensolum, LLC

Stuart Hyde, PG Senior Geologist (970) 903-1607 shyde@ensolum.com

Daniel R. Moir, PG Senior Managing Geologist (303) 887-2946 dmoir@ensolum.com

ENSOLUM

#### Attachments:

- Figure 1 Site Location Map
- Figure 2 Groundwater Elevation and Analytical Results (March 2023)
- Figure 3 Groundwater Elevation and Analytical Results (December 2023)
- Table 1Groundwater Elevations
- Table 2Groundwater Analytical Results
- Appendix A Laboratory Analytical Reports



# **FIGURES**

Released to Imaging: 5/30/2024 3:26:34 PM

Received by OCD: 3/29/2024 10:55:07 AM



Received by OCD: 3/29/2024 10:55:07 AM



Released to Imaging: 5/30/2024 3:26:34 PM

Sources: Google Earth

Received by OCD: 3/29/2024 10:55:07 AM



Released to Imaging: 5/30/2024 3:26:34 PM

Sources: Google Earth



## TABLES

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) Operation (feet)									
		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				
		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				
MW-3	6,329.21	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				

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)									
		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				
		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				
MW-4	6,328.08	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				

TABLE 1     GROUNDWATER ELEVATIONS     OH Randel #007     Hilcorp Energy Company     San Juan County, New Mexico										
Well Identification	n Top of Casing Elevation (feet AMSL) Date Depth to Groundwater (feet BTOC) Depth to Product (feet BTOC) (feet BTOC)									
		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				
MW-5	6,333.23	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				
		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				

TABLE 1     GROUNDWATER ELEVATIONS     OH Randel #007     Hilcorp Energy Company     San Juan County, New Mexico										
Well Identification	Top of Casing Elevation (feet AMSL)	Elevation (feet AMSL) Date Groundwater (feet BTOC) Depth to Product (feet BTOC) Product Thickness (feet)								
		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				
		6/11/2014	19.56			6,311.80				
MW-7	0.004.00	12/9/2014	19.67			6,311.69				
IVIVV-7	6,331.36	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				

TABLE 1     GROUNDWATER ELEVATIONS     OH Randel #007     Hilcorp Energy Company     San Juan County, New Mexico										
Well Identification	Top of Casing Elevation (feet AMSL)	Elevation Date Groundwater (feet BTOC) Depth to Product Inickness (feet)								
		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				
		12/16/2013	21.40			6,313.10				
		6/11/2014	22.09			6,312.41				
		12/9/2014	22.80			6,311.70				
MW-8	6,334.50	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				

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TABLE 1     GROUNDWATER ELEVATIONS     OH Randel #007     Hilcorp Energy Company     San Juan County, New Mexico										
Well Identification	Top of Casing Elevation (feet AMSL)	tion Date Groundwater Depth to Product Product I hickness								
		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				
MW-9	6,330.36	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				

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

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)				
NMWQCC	Standards	5.0	1,000	700	620				
	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				
MW-3	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				
	4/24/2002	ND	0.59	ND	2.1				
	8/27/2002	1.3	ND	ND	3.5				
MW-4	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				
	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				
MW-5	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				
	5/17/2007	8,500	17,000	980	16,000				
ŀ	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				
MW-7	11/7/2008	12,000	16,000	1,100	17,000				
ľ	7/8/2009	9,800	8,200	<100	12,000				
	11/5/2009	9,800	7,900	570	13,000				
1	5/25/2010	7,200	3,800	440	11,000				
ŀ	8/12/2010	82	58	9.2	200				

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)				
NMWQCC	Standards	5.0	1,000	700	620				
	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				
MW-7	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	6.2	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				
	5/17/2007	<1.0	1.9	<1.0	3.7				
	8/9/2007	<1.0	<1.0	<1.0	<2.0				
	11/27/2007	21.0	<1.0	<1.0	<2.0				
MW-8	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	<1.0	<1.0	<1.0	<2.0				
	11/5/2009	1.1	<1.0	<1.0	<2.0				

TABLE 2     GROUNDWATER ANALYTICAL RESULTS     OH Randel #007     Hilcorp Energy Company     San Juan County, New Mexico								
Well Identification	tion Sample Date Benzene Toluene Ethylbenzene Total Xylenes (µg/L) (µg/L)							
NMWQCC	Standards	5.0	1,000	700	620			
	7/8/2009	91	160	6.9	100			
	11/30/2009	<1.0	<1.0	<1.0	<2.0			
MW-9	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.



# APPENDIX A

Laboratory Analytical Reports



March 29, 2023

Kate Kaufman HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: OH Randel 7

OrderNo.: 2303B82

Dear Kate Kaufman:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/23/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

**Analytical Report** Lab Order 2303B82

Date Reported: 3/29/2023

CLIENT: HILCORP ENERGY	Client Sample ID: MW-7						
Project: OH Randel 7	Collection Date: 3/22/2023 12:40:00 PM						
Lab ID: 2303B82-001	Matrix: AQUEOUS Received Date: 3/23/2023 7:30:00 AM						
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
EPA METHOD 8021B: VOLATILES					Analyst: JJP		
Benzene	2700	100	µg/L	100	3/29/2023 3:14:26 AM		
Toluene	ND	10	µg/L	10	3/29/2023 3:37:57 AM		
Ethylbenzene	28	10	µg/L	10	3/29/2023 3:37:57 AM		
Xylenes, Total	1800	20	µg/L	10	3/29/2023 3:37:57 AM		
Surr: 4-Bromofluorobenzene	86.9	70-130	%Rec	10	3/29/2023 3:37:57 AM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 2

**Client:** 

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

HILCORP ENERGY

Project: OH Ra	ndel 7									
Sample ID: 100ng btex Ics	SampT	ype: LC	S	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSW	Batch	n ID: <b>BV</b>	V95508	F	unNo: <b>9</b>	5508				
Prep Date:	Analysis D	ate: 3/	23/2023	S	eqNo: 34	455628	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.6	70	130			
Toluene	19	1.0	20.00	0	96.9	70	130			
Ethylbenzene	19	1.0	20.00	0	97.0	70	130			
Xylenes, Total	58	2.0	60.00	0	95.9	70	130			
Surr: 4-Bromofluorobenzene	20		20.00		98.2	70	130			
Sample ID: mb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBW	Batch	n ID: <b>BV</b>	V95508	F	unNo: <b>9</b>	5508				
Prep Date:	Analysis D	ate: 3/	23/2023	S	eqNo: 3	455629	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	19		20.00		93.9	70	130			

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

WO#: 2303B82

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Alba TEL: 505-345-3975 Website: www.ha	4901 F. uquerque, 5 FAX: 50.	lawkins NE NM 87109 5-345-4107	Sample Log-In Check List			
Client Name: HILCORP ENERGY	Work Order Number	: 2303B	32		RcptNo: 1		
Received By: Cheyenne Cason	3/23/2023 7:30:00 AM		Ch	l			
Completed By: Cheyenne Cason	3/23/2023 8:49:22 AM		Ch	al al			
Reviewed By: JU 3/23/23							
Chain of Custody							
1. Is Chain of Custody complete?		Yes 🛽		No 🗌	Not Present		
2. How was the sample delivered?		<u>Client</u>					
Log In 3. Was an attempt made to cool the sample	s?	Yes 🔽	1	10 🗌	NA 🗋		
4. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🛛		No 🗌	NA 🗆		
5. Sample(s) in proper container(s)?		Yes 🛛	1	No 🗌			
6. Sufficient sample volume for indicated tes	t(s)?	Yes 🗹	] N	lo 🗌			
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗹	) N	lo 🗌			
8. Was preservative added to bottles?		Yes 🗌	<b>) N</b>	lo 🗹	na 🗆		
9. Received at least 1 vial with headspace <	/4" for AQ VOA?	Yes [	] N	lo 🗌	NA 🗹		
10. Were any sample containers received bro	ken?	Yes □	<b>1</b>	No 🔽		/	
11. Does paperwork match bottle labels?		Yes 🔽	1	io 🗆	# of preserved bottles checked for pH:		
(Note discrepancies on chain of custody)		_	_	_		2 unless noted)	
12. Are matrices correctly identified on Chain	of Custody?	Yes 💆	-		Adjusted?		
13. Is it clear what analyses were requested?		Yes 🗹		lo ∐ . □	Checked by: 1/6	1. 3 18 13	
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	<u>'</u> 1	lo ∐	Checked by.	U 3.28.23	
<u>Special Handling (if applicable)</u>							
15. Was client notified of all discrepancies wi	th this order?	Yes [	]	No 🗆	NA 🗹		
Person Notified:	Date:						
By Whom:	Via: [	eMail	Phone	🗌 Fax	In Person		
Regarding:							
Client Instructions:							
16. Additional remarks:							
17. Cooler Information							
Cooler No Temp °C Condition	Seal Intact Seal No	Seal Date	e Sign	ed By			
1 1.3 Good I	Not Present Morty						

Page 22 of 29

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Received L	by OCD	: 3/29/2	2024 10:55:07 AM				Puge 23 of 29	29
-	Chai	n-of-l	Chain-of-Custody Record		.e.			
Client: H	Hilcorp F	Hilcorp Farmington NM	on NM	X Standard	□ Rush_		ANALYSIS LABORATORY	
				Project Name:			www.hallenvironmental.com	
Mailing A	ddress:	382 Ro	Mailing Address: 382 Road 3100 Aztec, NM 87410	<b>T</b>	OH Randel #7		4901 Hawkins NE - Albuquerque, NM 87109	
Billing Ad	Idress: F	PO Box (	Billing Address: PO Box 61529 Houston, TX 77208	Project #:			Tel. 505-345-3975 Fax 505-345-4107	
Phone #:		505-486-9543	-9543				vnal	
email or Fax#:		Brandon	Brandon.Sinclair@hilcorp.com	Project Manager:				
QA/QC Package:	ackage:				1			
Standard	ard		Level 4 (Full Validation)	Kote	Kautma	AN		
Accreditation:			□ Az Compliance	Sampler:	Sind	lair		
		D Other		On Ice:	Ves	DNO /101 +		
	(Type)			# of Coolers: 1		-		
				Cooler Temp(Including CF): 1. 3 - 6 2 1. 3	ding CF): 1.3-	021.3		
Date 1	Time	Matrix	Sample Name	Container Type and #	Preservative Type	7 20,31382	BTEX	
3-22 [	1240	Water	7-WM	(3) 40ml VOA Vial	НСГ	B)		
-								
		:				ľ		
J_2 2	16091		ador.	AL	el-	3/22/23 /1009	Remarks: Special Pricing See Andy Freeman	
Pate: Time: 1 1242 1743	1743	Relinquished by:	ned by: LA-Ward	Received by:	X	<sup>Date ' Time '</sup> 3/2 <i>3/</i> 23 <i>073</i> 0		



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 15, 2023

Mitch Killough HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX:

RE: OH Randel 7

OrderNo.: 2312508

Dear Mitch Killough:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 12/8/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

**Analytical Report** Lab Order 2312508

Date Reported: 12/15/2023

CLIENT: HILCORP ENERGY		Client Sample ID: MW-7							
Project: OH Randel 7	Collection Date: 12/5/2023 11:30:00 AM								
Lab ID: 2312508-001	Matrix: AQUEOUS Received Date: 12/8/2023 6:45:00 AM								
Analyses	Result	RL Qual	Units	DF	Date Analyzed				
EPA METHOD 8260B: VOLATILES					Analyst: CCM				
Benzene	1600	100	µg/L	100	12/13/2023 6:55:00 PM				
Toluene	ND	10	µg/L	10	12/13/2023 7:19:00 PM				
Ethylbenzene	130	10	µg/L	10	12/13/2023 7:19:00 PM				
Xylenes, Total	530	15	µg/L	10	12/13/2023 7:19:00 PM				
Surr: 1,2-Dichloroethane-d4	96.8	70-130	%Rec	10	12/13/2023 7:19:00 PM				
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	10	12/13/2023 7:19:00 PM				
Surr: Dibromofluoromethane	95.3	70-130	%Rec	10	12/13/2023 7:19:00 PM				
Surr: Toluene-d8	106	70-130	%Rec	10	12/13/2023 7:19:00 PM				

#### Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	CORP ENERC Randel 7	ĞΥ								
Sample ID: 100ng Ics	Samp	Туре: <b>LC</b>	s	Tes	stCode: El	PA Method	8260B: VOLA	TILES		
Client ID: LCSW	Bato	ch ID: <b>R1</b>	01793	F	RunNo: 1	01793				
Prep Date:	Analysis	Date: 12	/13/2023	:	SeqNo: 3	752923	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.1	70	130			
Toluene	19	1.0	20.00	0	95.6	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.9	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			
Sample ID: mb SampType: MBLK			Tes	TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW Batch ID: R101793		F	RunNo: 1	01793						
Prep Date:	Analysis	Date: 12	/13/2023	:	SeqNo: 3	752924	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	12		10.00		123	70	130			
Sample ID: 100ng Ics	ample ID: 100ng Ics SampType: LCS TestCode: EPA Method 8260B: VOLATILES									
Client ID: LCSW	Bate	ch ID: <b>R1</b>	01793	F	RunNo: 1	01793				
Prep Date:	Analysis	Date: 12	/13/2023	:	SeqNo: 3	753534	Units: µg/L			
Analyte	Result	PQL	SPK value		%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.1	70	130			
Toluene	19	1.0	20.00	0	95.6	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.9	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 26 of 29

WO#:	2312	2508
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15-Dec-23

Page 27 of 29	🔅 eurofi	INS Environment Te	estin Alb TEL: 505-345-397:	onment Testing Sou Central, I 4901 Hawkins uquerque, NM 87 5 FAX: 505-345-4 allenvironmental.c	NE <b>Sam</b> 109 107	ole Log-In Chec	k List
	Client Name:	HILCORP ENERGY	Work Order Number	2312508		RcptNo: 1	
	Received By:	Tracy Casarrubias	12/8/2023 6:45:00 AN	I			
	Completed By: Reviewed By:	Tracy Casarrubias GCM 12 (8/73	12/8/2023 7:53:47 AN	I			
	Chain of Cus	stody					
		ustody complete?		Yes 🗹	No 🗌	Not Present	
	2. How was the	sample delivered?		Courier			
	Log In 3. Was an atten	npt made to cool the sample	s?	Yes 🗹	No 🗌	NA 🗌	
	4. Were all sam	ples received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗌		
	5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗌		
	6. Sufficient san	nple volume for indicated tes	t(s)?	Yes 🔽	No 🗌		

No 🗌

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eMail Phone Fax In Person

Signed By

NA 🗌

NA 🗌

(<2 or >12 unless noted)

JU12

# of preserved bottles checked

Adjusted?

Shecked by:

NA 🗹

for pH:

 $\checkmark$ 

Yes

Yes

Yes 🔽

Yes 🗌

Yes 🗹

Yes 🗹

Yes 🔽

Yes 🗹

Yes 🗌

Seal Date

Date:

Via:

Seal No

Morty

Received by OCD: 3/29/2024 10:55:07 AM

7. Are samples (except VOA and ONG) properly preserved?

9. Received at least 1 vial with headspace <1/4" for AQ VOA?

10. Were any sample containers received broken?

(Note discrepancies on chain of custody)

13. Is it clear what analyses were requested?

14. Were all holding times able to be met? (If no, notify customer for authorization.)

Special Handling (if applicable)

Person Notified:

Client Instructions:

Temp °C

3.1

Condition

Good

Seal Intact

Yes

By Whom:

Regarding:

16. Additional remarks:

17. <u>Cooler Information</u> Cooler No Terr

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12. Are matrices correctly identified on Chain of Custody?

15. Was client notified of all discrepancies with this order?

8. Was preservative added to bottles?

11. Does paperwork match bottle labels?

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ч	ain-of-	Chain-of-Custody Record	Turn-Around Time:			HALL ENVIDONMENTAL	
Client: Hilcor	Hilcorp Farmington NM	ton NM		🗆 Rush		ANALYSIS LABORATORY	
			Project Name:			www.hallenvironmental.com	
Mailing Addre	ess: 382 Ro	Mailing Address: 382 Road 3100 Aztec, NM 87410		OH Randel #7	4901 H	4901 Hawkins NE - Albuquerque, NM 87109	
Billing Addres	ss: PO Box	Billing Address: PO Box 61529 Houston, TX 77208	Project #:		Tel. 50	Tel. 505-345-3975 Fax 505-345-4107	
Phone #:	505-486-9543	5-9543				Analysis Request	
email or Fax#:		Brandon.Sinclair@hilcorp.com	Project Manager:				
QA/QC Package:	ge:						
Standard		Level 4 (Full Validation)	Mitch Ki	Killoyek			
Accreditation:		□ Az Compliance	Sampler: Brandor On Ice: V Yes	Brandon Sinclair			
D EDD (Type)			# of Coolers:				
			Cooler Temp(Including CF): 3.7	32-01=31-			
Date Time	e Matrix	Sample Name	Container Type Prese and # Type	Treservative 7217508	XƏTEX		
1 .		2-WW	nl VOA	100	3 ×		
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44 Date

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

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

CONDITIONS

Action 328059

CONDITIONS Operator: OGRID: HILCORP ENERGY COMPANY 372171 1111 Travis Street Action Number: Houston, TX 77002 328059 Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

#### CONDITIONS

CONDITIONS		
Created By	Condition	Condition Date
michael.buchanan	2023 Annual Groundwater Monitoring Report for OH Randel #007 has been received for the record.	5/30/2024