



ENSOLUM

March 30, 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

San Juan 29-7 Unit 37
Rio Arriba, New Mexico
Hilcorp Energy Company
NMOCD Incident Number: NCS1904241144
NMOCD Administrative Order: 3RP-425

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 San Juan 29-7 Unit 37 natural gas production well (Site) during 2025. The Site is located on private land within Unit Letter N, Section 12 within Township 29 North and Range 7 West, in Rio Arriba County, New Mexico (Figure 1).

SITE BACKGROUND

A leaking inspection plate gasket on the aboveground condensate tank was discovered by ConocoPhillips (previous well owner) on August 26, 2010. Approximately 23 barrels of condensate were released and fully contained within the berm; however, no liquids were recovered. The release was reported by ConocoPhillips on September 16, 2010, to the NMOCD on a Form C-141 *Release Notification and Corrective Action* form.

After the discovery, delineation activities were conducted at the Site in 2010 and 2011 to characterize soil and groundwater impacted by the release. Site characterization indicated petroleum hydrocarbon impacts from the release exceeded NMOCD Table I Closure Criteria for soils (Title 19, Chapter 15, Part 29, Section 12 [19.15.29.12] of the New Mexico Administrative Code [NMAC]) and New Mexico Water Quality Control Commission (NMWQCC) standards for groundwater. Based on the nature of the release, the original contaminants of concern (COCs) at the Site included benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH) in vadose zone soil and benzene, toluene, total xylenes, dissolved manganese, selenium, sulfate, and total dissolved solids (TDS) in groundwater.

Between September 24, 2010, and January 3, 2011, approximately 5,100 cubic yards of impacted soil were excavated from the release area and transported off-Site for disposal. The excavation measured approximately 70 feet by 120 feet by 30 feet deep. Previous reports stated more than

3,000 cubic feet of impacted soil were excavated; however, review of the *Subsurface Characterization Work Plan*, dated August 31, 2011, confirmed that M&M Trucking removed 5,100 cubic yards of impacted soil. Impacted groundwater was present in the immediate area of the release and extended approximately 60 feet downgradient. Eight groundwater monitoring wells (MW-1 through MW-8) were installed to monitor groundwater conditions at the Site. Residual soil and groundwater impacts were additionally treated from December 2011 through February 2012 with the injection of the chemical oxidant CoolOx® in attempts to remediate residual impacts by chemical oxidation and enhanced bioremediation. Cool-Ox™ Technology is a patented in-situ process that uses a solution of calcium peroxide that generates hydrogen peroxide slowly and facilitates the oxidation of petroleum hydrocarbons.

Hilcorp acquired the Site from ConocoPhillips in April 2017 and has continued to monitor groundwater conditions at the Site. GHD Services Inc. (GHD) prepared the *2018 Annual Groundwater Monitoring Report* (dated January 2019) on behalf of Hilcorp. Based on that report, the NMOCD concurred with the conclusions that sulfate and TDS were attributed to naturally occurring background concentrations at the Site and these constituents could be removed as COCs. In addition, NMOCD agreed BTEX constituents could be removed as COCs for all onsite wells with at least eight consecutive quarters with concentrations below NMWQCC standards (which included all wells except replacement well MW-8R). At that time, well MW-8R achieved seven quarters with results below NMWQCC standards.

During sampling events in 2019, BTEX concentrations were less than the NMWQCC standards in groundwater collected from MW-8R, therefore BTEX as a COC for groundwater in all wells at the Site was removed; however, at the request of the private landowner, BTEX continues to be included in the analytical suite. Based on WSP's *2020 Annual Groundwater Monitoring Report*, dated March 8, 2021, the NMOCD approved the elimination of selenium as a COC from all wells at the Site.

Based on historical sampling results and prior agreements with NMOCD, dissolved manganese is considered the only COC for groundwater in wells MW-1, MW-3, and MW-8R at the Site (as presented below). Following a review of the *2022 Annual Groundwater Monitoring Report*, the NMOCD approved reducing sampling frequency to an annual basis in 2024. Well locations and Site features are shown on Figure 2.

SITE GROUNDWATER CLEANUP STANDARDS

The NMOCD requires groundwater-quality standards to be met as presented by the NMWQCC and listed in Title 20, Chapter 6, Part 2, Section 3103 (20.6.2.3103) of NMAC. The following NMWQCC standard is presented for the COC at the Site in milligrams per liter (mg/L).

- Dissolved Manganese: 0.2 mg/L

GROUNDWATER SAMPLING ACTIVITIES AND RESULTS

Annual groundwater sampling was conducted at the Site in August 2025. Prior to collection of groundwater samples in selected monitoring wells, depth to groundwater was measured using a Keck oil/water interface probe. The interface probe was decontaminated with Alconox® soap and rinsed with distilled water prior to each measurement to prevent cross-contamination.

GROUNDWATER FLOW DIRECTION

Groundwater elevations measured during the August 2025 event (Table 1) were used to construct a potentiometric surface map (Figure 3). Groundwater elevations are presented relative to a local site datum. As shown on Figure 3, groundwater elevations range from a high of approximately 85.85 feet at MW-4 to approximately 78.13 feet at MW-6, indicating a localized hydraulic gradient across the Site. Groundwater flow is interpreted to the south, with a subtle shift toward the south-southeast in the southeastern portion of the Site, likely influenced by minor groundwater mounding observed near MW-2. The interpreted flow direction is consistent with historical groundwater flow patterns observed at the Site and suggests that groundwater movement is controlled by subtle topographic and subsurface heterogeneities.

GROUNDWATER SAMPLING

Groundwater sampling was conducted at monitoring wells MW-1 through MW-8R in August 2025. Per the landowner's request, groundwater samples from all wells were analyzed for BTEX during the 2025 sampling event. Additionally, per the landowner's request, monitoring wells MW-1 and MW-6 were sampled twice, once prior to purging (no purge sample) and once following purging, to evaluate potential differences in groundwater chemistry associated with sampling methodology.

The wells were purged and sampled using disposable bailers. Stagnant groundwater was removed during purging to ensure that collected samples were representative of formation water. Field parameters, including temperature, pH, TDS, dissolved oxygen (DO), oxidation-reduction potential (ORP), and electrical conductivity, were monitored during purging and are summarized in Table 2.

Prior to and following purging, groundwater samples were collected directly into laboratory-provided containers, preserved on ice, and submitted under proper chain-of-custody procedures to Eurofins Environmental Testing Laboratory (Eurofins) for analysis of dissolved manganese following United States Environmental Protection Agency (EPA) Method 200.7 and BTEX following EPA Method SW846 8260B.

GROUNDWATER ANALYTICAL RESULTS

Analytical results indicated BTEX constituents were not detected above applicable standards in any of the monitoring wells (pre or post-purging). Dissolved manganese was detected above the NMWQCC standard within MW-1 (1.9 mg/L), MW-3 (0.60 mg/L), and MW-8R (1.50 mg/L). Manganese concentrations in the no purge sample MW-1NP (0.44 mg/L) was notably lower than those observed in the corresponding purged sample.

The difference between the no purge and purged samples is attributed to the sampling methodology. Bailer-based purging and sampling can increase turbidity within the well by disturbing settled sediments and mobilizing fine-grained particles. Manganese is commonly associated with suspended solids and colloidal material; therefore, increased turbidity during purging can result in elevated reported concentrations, even when analyzed as dissolved metals. In contrast, no purge samples are collected under relatively static conditions and may reflect groundwater conditions with less particulate disturbance. A summary of manganese and BTEX analytical results for actively sampled wells is presented in Table 3 and depicted on Figure 4, with complete laboratory reports attached as Appendix A.

CONCLUSIONS AND RECOMMENDATIONS

Groundwater samples collected from wells MW-1, MW-3, and MW-8R continue to contain dissolved manganese concentrations exceeding the NMWQCC groundwater quality standard. Elevated dissolved manganese concentrations appear to be a result of low-oxygen and reducing groundwater conditions in these wells. Average dissolved oxygen concentrations in wells MW-1, MW-3, and MW-8R (from data collected between 2015 and 2025) range from 1.71 mg/L to 1.92 mg/L, whereas average dissolved oxygen concentrations in all other onsite wells range from 2.85 mg/L to 6.00 mg/L. Additionally, the oxidation-reduction potential (ORP) in wells MW-1, MW-3, and MW-8R range from 7.9 millivolts (mV) to -85.1 mV, suggesting continued reducing groundwater conditions in these wells leading to the dissolution of manganese and increased dissolved manganese concentrations. Conversely, the remaining wells at the Site have ORP values ranging from 19.5 mV to 30.0 mV, suggesting oxidizing conditions conducive to the precipitation of manganese, resulting in lower dissolved manganese concentrations.

As groundwater conditions at the Site continue to equilibrate and dissolved oxygen concentrations increase, redox conditions are expected to become more oxidizing. Under these conditions, dissolved manganese may oxidize and precipitate out of solution, resulting in decreasing manganese concentrations in groundwater over time. Because there are no potential receptors downgradient of the Site (the nearest water well, SJ-03390, is located approximately 1,900 feet to the southeast, is cross-gradient to Site groundwater flow, and is screened in a hydrogeologically separate water-bearing zone), Ensolum and Hilcorp recommend continuing annual sampling of wells MW-1, MW-3, and MW-8R until dissolved manganese concentrations are below NMWQCC standards. At that time, Hilcorp will initiate quarterly sampling until eight consecutive quarters demonstrate that manganese concentrations remain below applicable standards.

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

Sincerely,

Ensolum, LLC



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Attachments:

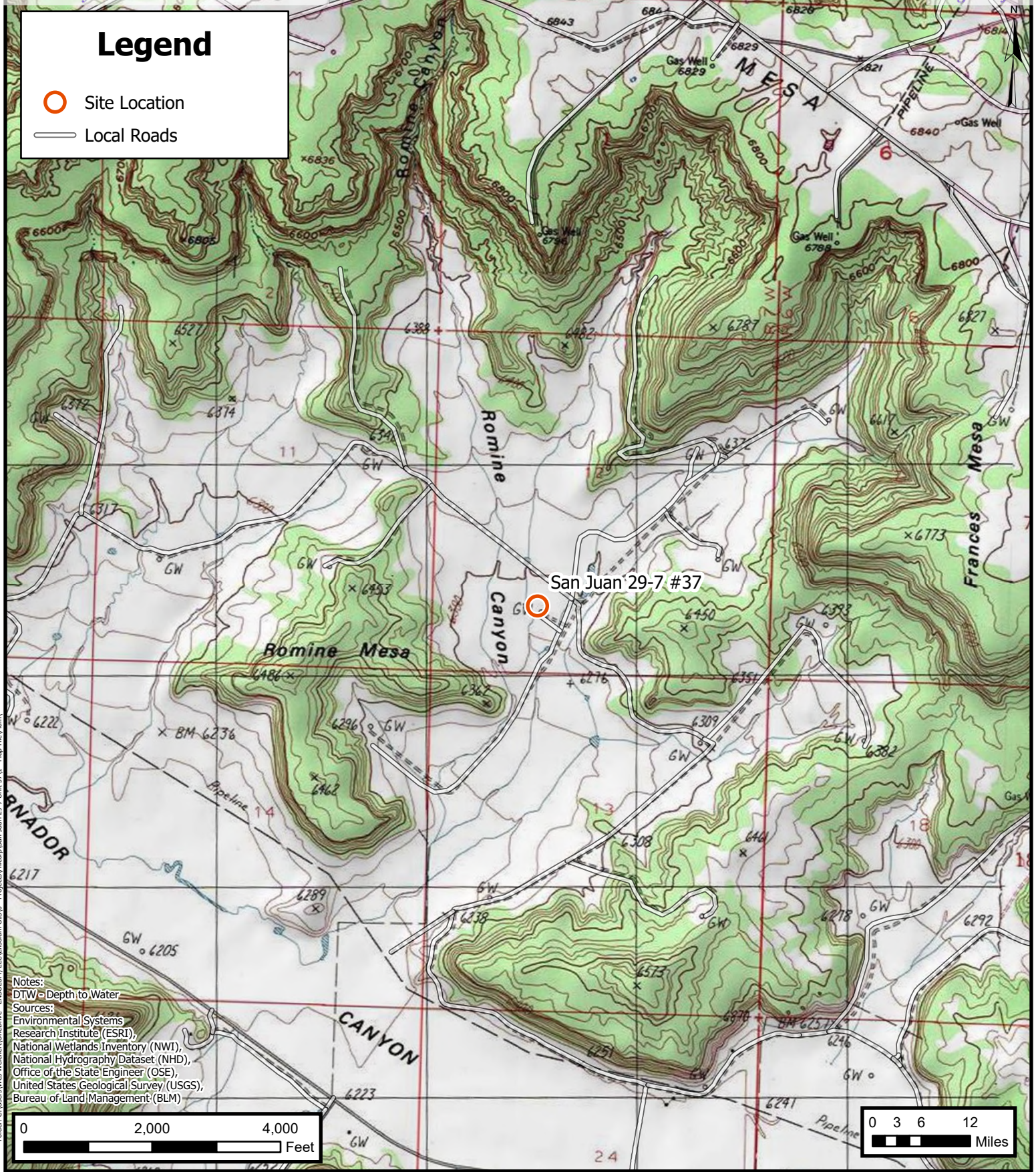
Figure 1	Site Location Map
Figure 2	Site Map
Figure 3	Groundwater Elevation Map - August 2025
Figure 4	2025 Groundwater Analytical Results
Table 1	Groundwater Elevations
Table 2	Groundwater Quality Measurements
Table 3	Groundwater Analytical Results
Appendix A	Laboratory Analytical Reports



FIGURES

Legend

-  Site Location
-  Local Roads



Notes:
 DTW - Depth to Water
 Sources:
 Environmental Systems
 Research Institute (ESRI),
 National Wetlands Inventory (NWI),
 National Hydrography Dataset (NHD),
 Office of the State Engineer (OSE),
 United States Geological Survey (USGS),
 Bureau of Land Management (BLM)

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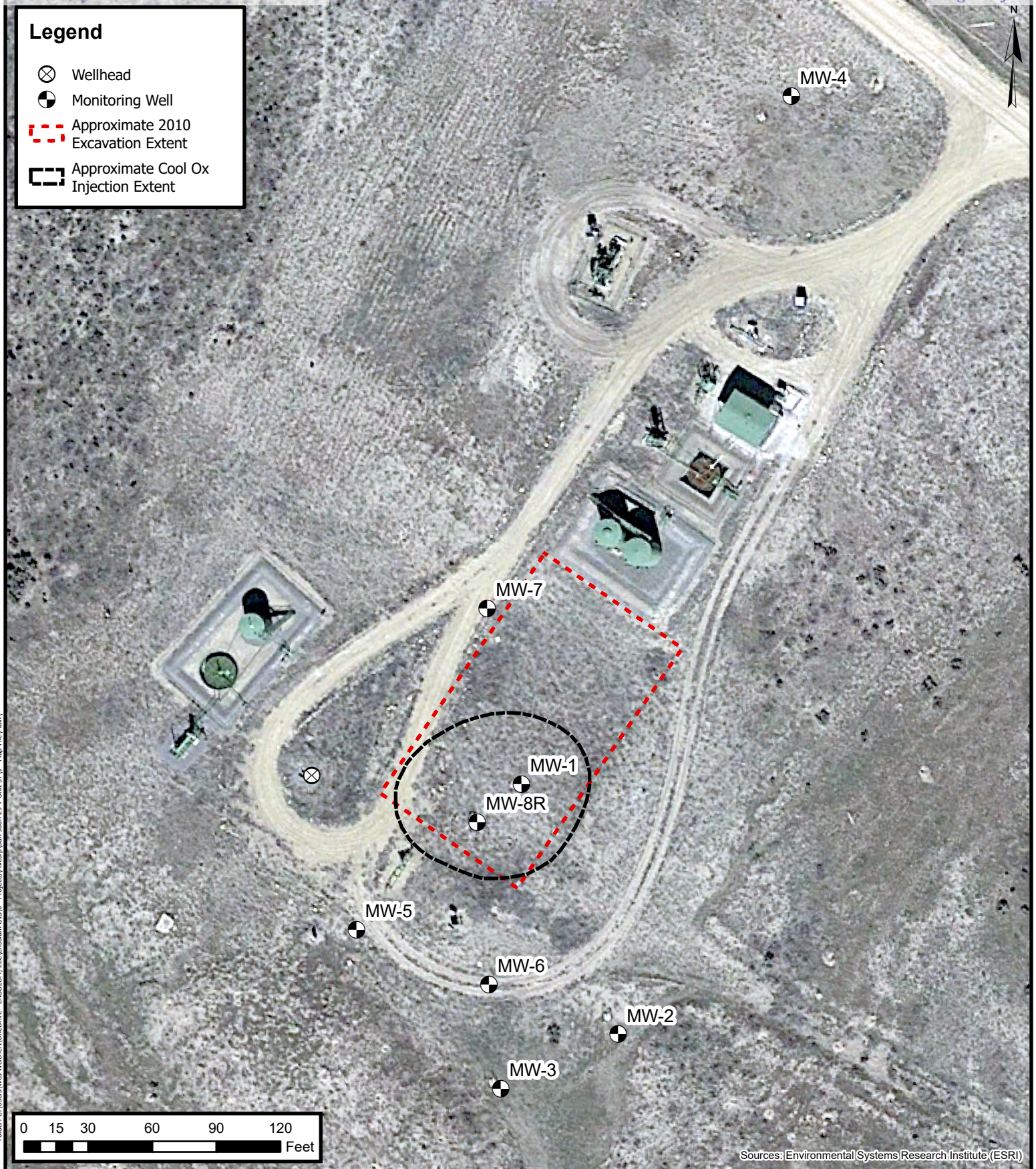
Site Location Map

Hilcorp Energy Company
 San Juan 29-7 #37
 36.73580, -107.52562
 Rio Arriba County, New Mexico

FIGURE

1





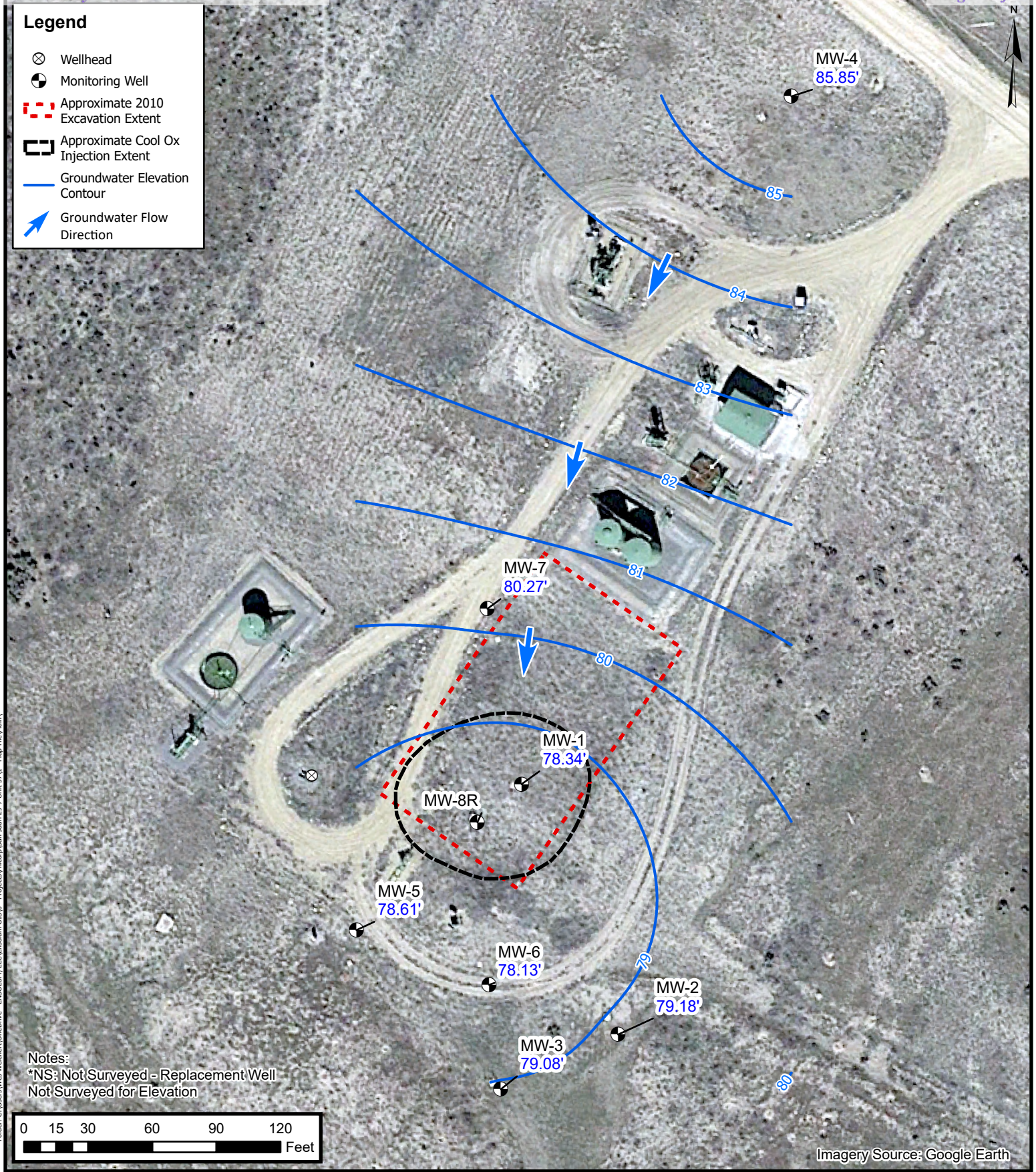
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Site Map

Hilcorp Energy Company
 San Juan 29-7 Unit 37
 36.73580, -107.52562
 Rio Arriba County, New Mexico

FIGURE
2

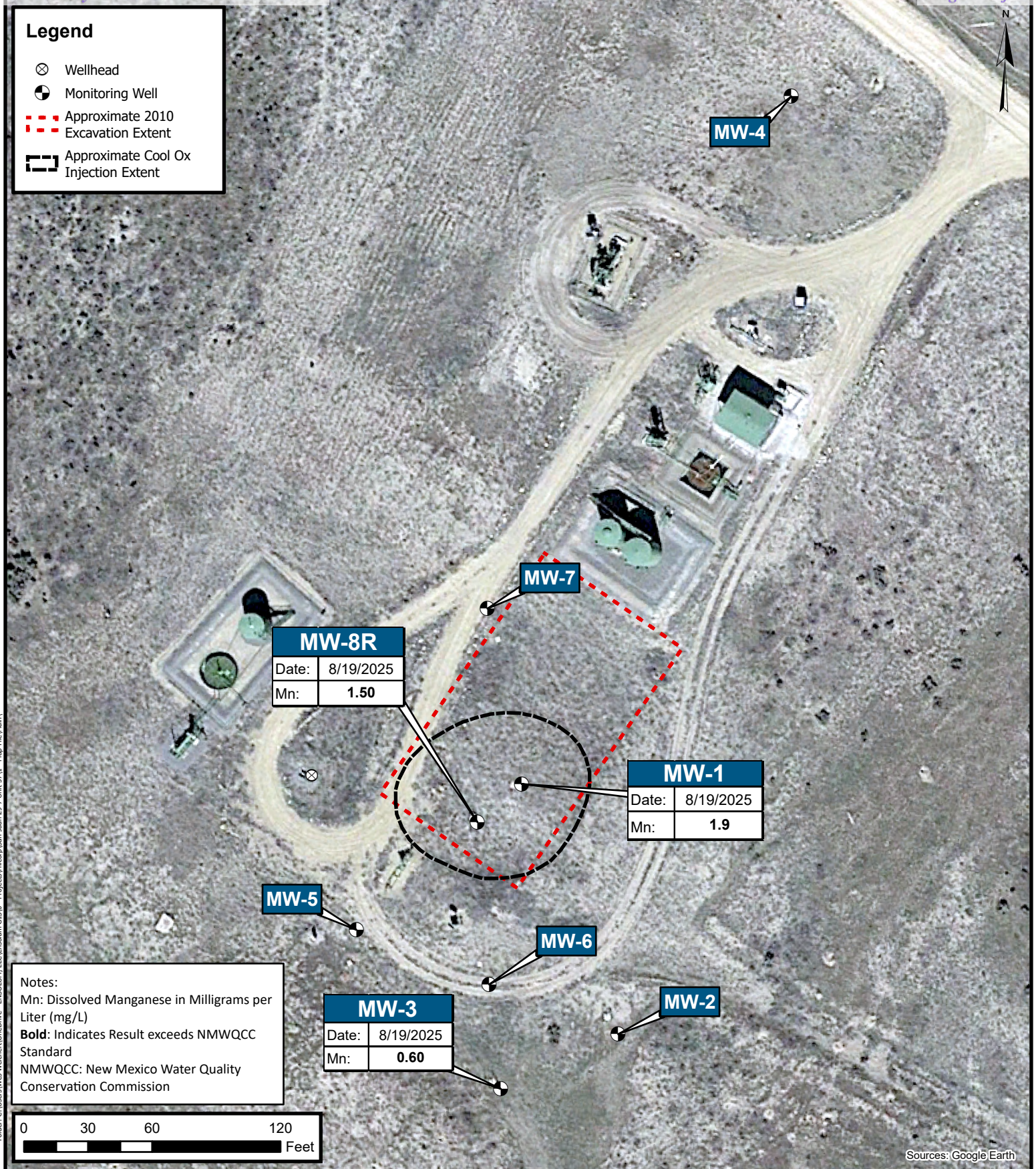


Groundwater Elevation Contour Map August 2025

Hilcorp Energy Company
 San Juan 29-7 Unit 37
 36.73580, -107.52562
 Rio Arriba County, New Mexico

**FIGURE
3**





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2025 Groundwater Analytical Results

Hilcorp Energy Company
San Juan 29-7 Unit 37
36.73580, -107.52562
Rio Arriba County, New Mexico

FIGURE
4



TABLES



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-1	189.24	3/17/2011	108.91	80.33
		8/17/2011	108.81	80.43
		10/18/2011	108.87	80.37
		2/23/2012	108.74	80.50
		6/5/2012	108.75	80.49
		9/18/2012	108.68	80.56
		1/8/2013	108.62	80.62
		3/26/2013	108.69	80.55
		6/11/2013	108.81	80.43
		9/10/2013	109.04	80.20
		1/7/2014	109.26	79.98
		3/18/2014	109.10	80.14
		6/16/2014	109.31	79.93
		9/25/2014	109.54	79.70
		12/16/2014	109.59	79.65
		3/17/2015	109.61	79.63
		6/16/2015	109.68	79.56
		9/15/2015	109.62	79.62
		12/1/2015	109.78	79.46
		3/29/2016	109.61	79.63
		6/21/2016	109.89	79.35
		9/7/2016	109.87	79.37
		11/30/2016	109.89	79.35
		3/7/2017	109.92	79.32
		6/13/2017	110.06	79.18
		9/26/2017	110.00	79.24
12/19/2017	109.99	79.25		
3/14/2018	109.93	79.31		
6/26/2018	110.02	79.22		
9/5/2018	110.06	79.18		
12/14/2018	110.04	79.20		



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Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-1	189.24	3/29/2019	109.95	79.29
		6/24/2019	110.44	78.80
		9/13/2019	110.12	79.12
		11/6/2019	110.05	79.19
		3/5/2020	110.16	79.08
		5/6/2020	110.13	79.11
		8/20/2020	110.04	79.20
		10/21/2020	110.01	79.23
		3/2/2021	110.16	79.08
		9/24/2021	110.50	78.74
		3/3/2022	110.16	79.08
		9/20/2022	110.19	79.05
		3/2/2023	110.04	79.20
		10/3/2023	110.08	79.16
		3/20/2024	109.58	79.66
		12/30/2024	109.59	79.65
8/19/2025	110.9	78.34		
MW-2	189.60	3/17/2011	109.20	80.40
		8/17/2011	109.10	80.50
		10/18/2011	109.13	80.47
		2/23/2012	109.05	80.55
		6/5/2012	109.10	80.50
		9/18/2012	109.28	80.32
		1/8/2013	109.07	80.53
		3/26/2013	109.12	80.48
		6/11/2013	109.32	80.28
		9/10/2013	109.32	80.28
		1/7/2014	109.71	79.89
		3/18/2014	109.71	79.89
		6/16/2014	109.83	79.77
		9/16/2014	109.94	79.66
12/16/2014	110.04	79.56		



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Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-2	189.60	3/17/2015	110.09	79.51
		6/16/2015	110.17	79.43
		9/15/2015	110.14	79.46
		12/1/2015	110.23	79.37
		3/29/2016	110.26	79.34
		6/21/2016	110.31	79.29
		9/7/2016	110.33	79.27
		11/30/2016	110.39	79.21
		3/7/2017	110.37	79.23
		6/13/2017	110.35	79.25
		9/26/2017	110.54	79.06
		12/19/2017	110.50	79.10
		3/14/2018	110.54	79.06
		6/26/2018	110.55	79.05
		9/5/2018	110.60	79.00
		12/14/2018	110.51	79.09
		3/27/2019	110.57	79.03
		6/18/2019	110.55	79.05
		9/11/2019	110.57	79.03
		11/5/2019	110.56	79.04
		3/4/2020	110.61	78.99
		5/6/2020	110.63	78.97
		8/21/2020	110.60	79.00
		10/22/2020	110.62	78.98
		3/1/2021	110.63	78.97
		9/24/2021	111.10	78.50
		3/3/2022	110.71	78.89
9/20/2022	--	--		
3/2/2023	110.83	78.77		
10/3/2023	110.58	79.02		
3/20/2024	110.26	79.34		
12/30/2024	110.27	79.33		
8/19/2025	110.42	79.18		
MW-2	189.13	3/17/2011	109.42	79.71



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
		8/17/2011	109.35	79.78



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-3	189.13	10/18/2011	109.37	79.76
		2/23/2012	109.26	79.87
		6/5/2012	109.28	79.85
		9/18/2012	109.30	79.83
		1/8/2013	109.28	79.85
		3/26/2013	109.33	79.80
		6/11/2013	109.41	79.72
		9/10/2013	109.58	79.55
		1/7/2014	109.70	79.43
		3/18/2014	109.68	79.45
		6/16/2014	109.84	79.29
		9/16/2014	109.97	79.16
		12/16/2014	110.08	79.05
		3/17/2015	110.03	79.10
		6/16/2015	110.08	79.05
		9/15/2015	110.08	79.05
		12/1/2015	110.24	78.89
		3/29/2016	110.04	79.09
		6/21/2016	110.15	78.98
		9/7/2016	110.27	78.86
		11/30/2016	110.26	78.87
		3/7/2017	110.25	78.88
		6/13/2017	110.36	78.77
		9/26/2017	110.48	78.65
		12/19/2017	110.39	78.74
		3/14/2018	110.35	78.78
		6/26/2018	110.40	78.73
		9/5/2018	110.55	78.58
12/14/2018	110.30	78.83		
3/26/2019	110.35	78.78		
6/17/2019	110.31	78.82		
9/10/2019	110.37	78.76		
11/4/2019	110.38	78.75		
3/3/2020	110.32	78.81		



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
		5/4/2020	110.43	78.70



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Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-3	189.13	8/19/2020	110.41	78.72
		10/21/2020	110.46	78.67
		3/1/2021	110.59	78.54
		9/24/2021	110.70	78.43
		3/3/2022	110.53	78.60
		9/20/2022	110.54	78.59
		3/2/2023	110.38	78.75
		10/3/2023	110.28	78.85
		3/20/2024	109.92	79.21
		12/30/2024	109.95	79.18
		8/19/2025	110.05	79.08
MW-4	197.60	3/17/2011	111.11	86.49
		8/17/2011	111.10	86.50
		10/18/2011	111.16	86.44
		2/23/2012	111.14	86.46
		6/5/2012	111.20	86.40
		9/18/2012	111.12	86.48
		1/8/2013	111.14	86.46
		3/26/2013	111.23	86.37
		6/11/2013	111.41	86.19
		9/10/2013	111.47	86.13
		1/7/2014	111.66	85.94
		3/18/2014	111.60	86.00
		6/16/2014	111.68	85.92
		9/25/2014	111.77	85.83
		12/16/2014	111.80	85.80
3/17/2015	111.77	85.83		
		6/16/2015	111.78	85.82



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Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-4	197.60	9/15/2015	111.76	85.84
		12/1/2015	111.89	85.71
		3/29/2016	111.92	85.68
		6/21/2016	111.95	85.65
		9/7/2016	111.33	86.27
		11/30/2016	112.03	85.57
		3/7/2017	111.90	85.70
		6/13/2017	111.92	85.68
		9/26/2017	112.01	85.59
		12/19/2017	112.05	85.55
		3/15/2018	112.02	85.58
		6/26/2018	112.02	85.58
		9/5/2018	112.05	85.55
		12/14/2018	112.02	85.58
		3/25/2019	112.04	85.56
		6/14/2019	112.03	85.57
		9/9/2019	110.57	87.03
		11/1/2019	112.07	85.53
		3/2/2020	112.05	85.55
		5/1/2020	112.05	85.55
		8/18/2020	112.01	85.59
		10/19/2020	112.02	85.58
		3/1/2021	112.08	85.52
		9/24/2021	112.70	84.90
3/3/2022	112.06	85.54		
9/20/2022	--	--		
3/2/2023	112.14	85.46		
10/3/2023	111.79	85.81		
3/20/2024	111.34	86.26		
12/30/2024	111.37	86.23		
8/19/2025	111.75	85.85		
MW-5	188.70	10/18/2011	108.05	80.65
		2/23/2012	108.44	80.26
		6/5/2012	108.38	80.32



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
		9/18/2012	108.11	80.59



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Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-5	188.70	1/8/2013	108.36	80.34
		3/26/2013	108.72	79.98
		6/11/2013	108.56	80.14
		9/10/2013	108.77	79.93
		1/7/2014	108.91	79.79
		3/18/2014	108.91	79.79
		6/16/2014	109.01	79.69
		9/16/2014	109.20	79.50
		12/16/2014	109.22	79.48
		3/17/2015	109.25	79.45
		6/16/2015	109.33	79.37
		9/15/2015	109.37	79.33
		12/1/2015	109.37	79.33
		3/29/2016	109.38	79.32
		6/21/2016	109.63	79.07
		9/7/2016	109.58	79.12
		11/30/2016	109.54	79.16
		3/7/2017	109.63	79.07
		6/13/2017	109.65	79.05
		9/26/2017	109.72	78.98
		12/19/2017	110.64	78.06
		3/14/2018	109.72	78.98
		6/26/2018	109.73	78.97
9/5/2018	109.74	78.96		
12/14/2018	109.72	78.98		
3/26/2019	109.65	79.05		
6/14/2019	109.80	78.90		
9/10/2019	109.75	78.95		
11/4/2019	109.88	78.82		



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-5	188.70	3/3/2020	109.73	78.97
		5/4/2020	109.82	78.88
		8/19/2020	109.93	78.77
		10/20/2020	109.84	78.86
		3/1/2021	109.89	78.81
		9/24/2021	109.40	79.30
		3/3/2022	109.93	78.77
		9/20/2022	--	--
		3/2/2023	--	--
		10/3/2023	109.87	78.83
		3/20/2024	109.29	79.41
		12/30/2024	109.33	79.37
		8/19/2025	110.09	78.61
MW-6	188.03	10/18/2011	109.55	78.48
		2/23/2012	108.01	80.02
		6/5/2012	108.05	79.98
		9/18/2012	108.06	79.97
		1/8/2013	108.07	79.96
		3/26/2013	108.09	79.94
		6/11/2013	108.25	79.78
		9/10/2013	108.43	79.60
		1/7/2014	108.70	79.33
		3/18/2014	108.70	79.33
		6/16/2014	108.85	79.18
		9/16/2014	108.99	79.04



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-6	188.03	12/16/2014	109.10	78.93
		3/17/2015	109.14	78.89
		6/16/2015	109.23	78.80
		9/15/2015	109.20	78.83
		12/1/2015	109.30	78.73
		3/29/2016	109.34	78.69
		6/21/2016	108.58	79.45
		9/7/2016	109.47	78.56
		11/30/2016	109.51	78.52
		3/7/2017	109.47	78.56
		6/13/2017	109.48	78.55
		9/26/2017	109.64	78.39
		12/19/2017	109.64	78.39
		3/15/2018	109.66	78.37
		6/26/2018	109.99	78.04
		9/5/2018	109.75	78.28
		12/14/2018	109.64	78.39
		3/26/2019	109.65	78.38
		6/18/2019	109.73	78.30
		9/11/2019	109.75	78.28
		11/5/2019	109.76	78.27
		3/4/2020	109.81	78.22
		5/6/2020	109.53	78.50
		8/20/2020	109.82	78.21
		10/20/2020	109.83	78.20
		3/1/2021	109.87	78.16
		9/27/2021	110.40	77.63
		3/3/2022	109.94	78.09
9/20/2022	--	--		
3/2/2023	110.07	77.96		
10/3/2023	109.86	78.17		
3/20/2024	109.50	78.53		
12/30/2024	109.59	78.44		
8/19/2025	109.9	78.13		



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-7	189.93	10/18/2011	109.70	80.23
		2/23/2012	106.58	83.35
		6/5/2012	107.95	81.98
		9/18/2012	108.10	81.83
		1/8/2013	108.13	81.80
		3/26/2013	108.24	81.69
MW-7	189.93	6/11/2013	108.45	81.48
		9/10/2013	108.64	81.29
		1/7/2014	108.80	81.13
		3/18/2014	108.83	81.10
		6/16/2014	108.96	80.97
		9/25/2014	109.10	80.83
		12/16/2014	109.13	80.80
		3/17/2015	109.12	80.81
		6/16/2015	109.14	80.79
		9/15/2015	109.07	80.86
		12/1/2015	109.15	80.78
		3/29/2016	109.23	80.70
		6/21/2016	109.39	80.54
		9/7/2016	109.42	80.51
		11/30/2016	109.51	80.42
		3/7/2017	109.44	80.49
		6/13/2017	109.38	80.55
		9/26/2017	109.52	80.41
		12/19/2017	109.52	80.41
		3/14/2018	109.49	80.44
		6/26/2018	109.57	80.36
		9/5/2018	109.55	80.38
		12/14/2018	109.50	80.43
		3/25/2019	109.48	80.45
6/14/2019	109.50	80.43		
9/9/2019	109.48	80.45		
11/1/2019	109.53	80.40		
3/2/2020	109.53	80.40		



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
		5/1/2020	109.53	80.40



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
		8/18/2020	109.52	80.41
		10/19/2020	109.51	80.42
		3/1/2021	109.60	80.33
		9/24/2021	109.90	80.03
MW-7	189.93	3/3/2022	109.63	80.30
		9/20/2022	--	--
		3/2/2023	109.68	80.25
		10/3/2023	109.52	80.41
		3/20/2024	109.16	80.77
		8/19/2025	109.66	80.27
MW-8	189.86	10/19/2011	--	--
		2/23/2012	108.71	81.15
		6/5/2012	108.65	81.21
		9/20/2012	108.64	81.22
		1/8/2013	108.56	81.30
		3/26/2013	108.63	81.23
		6/11/2013	108.85	81.01
		7/13/2013	Plugged and Abandoned	
MW-8R	Replacement Well Not Surveyed for Elevation	9/10/2013	108.39	--
		1/7/2014	108.65	--
		3/18/2014	108.62	--
		6/16/2014	108.77	--
		9/25/2014	108.91	--
		12/16/2014	108.95	--
		3/17/2015	109.00	--
		6/16/2015	109.12	--
		9/15/2015	109.01	--
		12/1/2015	109.18	--
		3/29/2016	109.12	--
		6/21/2016	109.32	--
		9/7/2016	109.31	--
		11/30/2016	109.26	--
3/7/2017	109.31	--		
6/13/2017	109.27	--		



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
		9/26/2017	109.40	--



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet ^{**})	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet ^{**})
		12/19/2017	109.39	--
		3/14/2018	109.34	--
		6/26/2018	109.42	--
		9/5/2018	109.48	--
MW-8R	Replacement Well Not Surveyed for Elevation	12/14/2018	109.37	--
		3/28/2019	109.38	--
		6/24/2019	109.38	--
		9/13/2019	109.91	--
		11/6/2019	109.86	--
		3/5/2020	109.52	--
		5/7/2020	109.62	--
		8/21/2020	109.63	--
		10/22/2020	109.43	--
		3/2/2021	109.63	--
		9/24/2021	110.00	--
		3/3/2022	109.71	--
		9/20/2022	109.59	--
		3/2/2023	109.48	--
		10/3/2023	109.73	--
		3/20/2024	109.13	--
12/30/2024	109.00	--		
8/19/2025	109.55	--		

Notes:

***:* elevations based on an arbitrary datum of 200 feet

BTOC: below top of casing

--: indicates no GWEL measured



TABLE 2 GROUNDWATER QUALITY MEASUREMENTS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico							
Well Identification	Date	Temperature (°C)	pH	TDS (mg/L)	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-1	3/17/2015	18.10	7.28	2,200	3,380	--	53.0
	6/16/2015	17.70	7.30	1,970	3,030	1.39	-12.4
	9/15/2015	16.12	7.13	2,212	3,403	1.09	50.2
	12/1/2015	16.63	7.72	2,361	3,632	1.08	-100.5
	3/29/2016	16.64	7.22	3,100	3,350	4.20	126.0
	6/21/2016	17.10	7.44	--	3,320	0.46	6.5
	9/7/2016	16.31	7.34	2,139	3,290	0.56	-66.0
	12/1/2016	12.71	7.55	--	2,989	5.29	23.5
	3/7/2017	15.36	7.55	2,377	3,657	1.25	-108.8
	6/13/2017	18.42	7.38	2,109	3,245	1.67	-103.7
	9/26/2017	21.00	7.05	--	2,844	--	--
	12/19/2017	13.89	7.37	--	3,232	--	--
	3/14/2018	17.90	7.41	--	3,141	0.28	3.5
	6/26/2018	21.15	7.37	--	3,101	0.29	23.1
	9/5/2018	20.93	7.64	--	2,913	0.03	44.9
	3/29/2019	12.10	7.75	1,520	3,040	--	-34.7
	6/24/2019	20.40	7.28	1,580	3,130	26.60*	-38.0
	9/13/2019	17.80	6.28	1,550	3,100	25.30*	-45.5
	11/6/2019	15.50	6.90	1,540	3,090	100.60*	-45.6
	3/5/2020	14.90	6.73	1,530	3,060	5.99	-37.5
	5/6/2020	19.80	6.63	1,560	3,130	2.33	-30.4
	8/20/2020	21.30	6.95	1,520	3,030	1.21	-31.6
	10/21/2020	17.90	6.75	1,380	2,770	2.59	-30.3
	3/2/2021	16.60	6.94	1,400	2,810	0.58	-27.4
9/24/2021	19.40	7.06	--	7,480*	--	--	
3/3/2022	16.90	6.96	--	2,590	--	--	
9/20/2022	18.00	7.06	1,230	2,460	--	--	
3/2/2023	14.00	7.39	1,150	2,370	--	--	
10/3/2023	17.88	7.74	2,290	3,523	1.80	113.1	
3/20/2024	21.31	8.08	2.25	3,460.8	2.05	251.1	
12/30/2024	13.83	8.380	2.230	3,462.20	2.540	-24.9	
8/19/2025	32.51	7.616	0.063	96.47	2.537	248.7	
MW-1 NP	8/19/2025	33.45	7.301	1.176	1,805	3.078	260.4
MW-2	3/17/2015	14.80	7.30	2,200	3,430	--	165.0
	6/16/2015	14.90	6.91	1,925	2,961	6.23	25.2
	9/15/2015	14.62	6.99	2,162	3,327	6.27	75.5
	12/1/2015	13.50	7.61	2,277	3,504	5.27	80.8
	3/29/2016	--	--	--	--	--	--
	6/21/2016	15.40	7.38	--	2,850	0.56	-121.6
	9/7/2016	13.96	6.98	2,064	3,175	6.37	60.7
	12/1/2016	13.33	7.92	--	2,932	7.31	29.7
	3/7/2017	12.71	7.30	2,320	3,570	3.81	-84.5
	6/13/2017	15.03	7.24	2,075	3,191	5.55	-12.2
	9/26/2017	15.67	6.83	--	2,795	--	--
	12/19/2017	11.60	7.05	--	3,176	--	--
	3/14/2018	14.81	7.14	--	3,135	4.53	70.3



TABLE 2 GROUNDWATER QUALITY MEASUREMENTS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico							
Well Identification	Date	Temperature (°C)	pH	TDS (mg/L)	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-2	6/26/2018	17.31	7.08	--	3,010	3.47	54.9
	9/5/2018	17.39	7.39	--	2,890	3.86	67.4
	3/27/2019	16.6	7.02	1,550	3,010	--	7.5
	6/18/2019	18.0	7.02	1,560	3,130	26.60*	55.4
	9/11/2019	17.6	6.21	1,550	3,100	42.80*	-23.2
	11/5/2019	15.2	6.39	1,560	3,120	46.00*	-19.0
	3/4/2020	15.6	6.41	1,580	3,140	6.950	-17.4
	5/7/2020	16.1	6.46	1,550	3,080	3.280	-19.9
	8/21/2020	18.1	6.87	1,540	3,090	2.500	-18.0
	10/22/2020	15.5	6.47	1,370	2,750	4.050	-17.2
8/19/2025	38.7	8.145	1.425	2,193	2.962	49.7	
MW-3	3/17/2015	15.10	7.45	1,900	3,040	--	-94.0
	6/16/2015	15.09	7.31	1,717	2,641	1.23	-123.5
	9/15/2015	15.03	7.30	1,912	2,941	1.39	-125.0
	12/1/2015	13.73	7.78	2,044	3,144	1.48	-164.2
	3/29/2016	15.82	7.34	1,900	2,940	5.66	-103.0
	6/21/2016	14.70	7.00	--	3,230	4.62	56.2
	9/7/2016	14.55	7.10	1,816	2,794	1.50	-102.7
	12/1/2016	14.91	7.74	--	2,556	1.97	-116.2
	3/7/2017	12.81	7.63	2,044	3,144	0.39	-192.6
	6/13/2017	14.77	7.58	1,819	2,801	0.42	-123.9
	9/26/2017	15.05	7.25	--	2,425	--	--
	12/19/2017	12.36	7.48	--	2,776	--	--
	3/14/2018	15.72	7.63	--	2,208	0.00	-139.6
	6/26/2018	18.48	7.63	--	2,589	0.22	-146.3
	9/5/2018	17.28	7.87	--	2,500	-0.07*	-124.3
	3/26/2019	15.80	7.35	1,320	2,640	0.00	-32.6
	6/17/2019	18.70	7.35	1,350	2,740	17.00*	-48.3
	9/10/2019	19.50	6.31	1,350	2,700	15.20*	-57.6
	11/4/2019	15.90	6.70	1,340	2,660	54.20*	-44.6
	3/3/2020	16.30	6.61	1,360	2,710	6.66	-33.6
	5/4/2020	18.30	6.72	1,330	2,620	1.92	-38.6
	8/19/2020	20.30	6.82	1,330	2,700	0.88	-34.4
	10/21/2020	15.80	6.73	1,170	2,340	3.47	-31.8
	3/1/2021	15.00	6.95	1,190	2,390	0.56	-33.6
	9/24/2021	19.30	6.85	--	6,570	--	--
3/3/2022	17.10	6.70	--	2,250	--	--	
9/20/2022	18.20	6.59	1,050	2,290	--	--	
3/2/2023	11.90	7.52	1,040	2,080	--	--	
10/3/2023	27.96	8.09	1,980	3,050	1.63	-83.4	
3/20/2024	21.58	8.21	0.36	569.55	2.26	-112.3	
8/19/2025	38.17	8.332	1.063	1,634	2.176	-77.0	



TABLE 2 GROUNDWATER QUALITY MEASUREMENTS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico							
Well Identification	Date	Temperature (°C)	pH	TDS (mg/L)	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-4	3/17/2015	16.30	7.43	2,000	3,120	--	125.0
	6/16/2015	14.68	7.38	1,760	2,707	6.38	13.6
	9/15/2015	14.75	6.99	1,980	3,047	7.23	48.3
	12/1/2015	14.57	7.89	1,451	2,231	5.92	-12.2
	3/29/2016	16.94	7.33	1,900	3,030	7.71	110.0
	6/21/2016	15.30	7.62	--	2,980	4.10	58.9
	9/7/2016	14.52	7.50	1,919	2,953	6.36	65.1
	12/2/2016	12.48	7.81	--	2,688	9.18	76.9
	3/7/2017	--	--	--	--	--	--
	9/26/2017	12.75	7.25	--	2,537	--	--
	12/19/2017	12.22	7.49	--	2,914	--	--
	3/14/2018	14.13	7.57	--	28	5.95	55.1
	6/26/2018	15.95	7.64	--	2,682	4.63	33.8
	9/5/2018	14.99	7.84	--	2,625	6.35	51.2
	3/25/2019	15.60	7.77	1,400	2,570	--	-33.4
	6/14/2019	15.70	7.35	1,410	2,790	60.10*	61.6
	9/9/2019	18.40	7.30	1,420	2,830	51.10*	-56.7
	11/1/2019	12.50	7.03	1,380	2,770	49.10*	-51.8
	3/2/2020	13.90	6.78	1,430	2,940	9.11	-42.6
	5/1/2020	18.40	6.47	1,410	2,790	5.62	-39.9
8/18/2020	19.80	6.63	1,450	2,990	2.52	-40.0	
10/19/2020	16.40	6.46	1,220	2,430	2.97	-32.2	
8/19/2025	39.03	8.031	2.084	3,205	5.971	140.3	
MW-5	3/17/2015	18.00	6.80	2,400	3,790	--	87.0
	6/16/2015	17.17	6.49	2,174	3,345	2.36	63.2
	9/15/2015	16.10	6.64	2,468	3,796	1.97	64.7
	12/1/2015	15.73	7.10	2,603	4,004	2.66	168.2
	3/29/2016	19.44	6.87	2,400	3,750	3.01	66.0
	6/21/2016	18.00	6.68	--	3,660	0.92	91.1
	9/7/2016	15.71	6.89	2,331	3,586	3.99	55.4
	12/1/2016	16.15	7.40	--	3,266	3.55	22.4
	3/7/2017	13.27	7.64	2,617	4,026	3.10	-64.7
	9/26/2017	14.09	6.85	--	3,030	--	--
	12/19/2017	12.49	6.85	--	3,513	--	--
	3/14/2018	15.02	6.92	--	3,476	1.37	70.5
	6/26/2018	16.65	7.05	--	3,124	1.64	47.6
	9/5/2018	16.10	7.47	--	3,186	3.88	63.6
	3/26/2019	12.80	7.29	1,490	2,780	--	-3.3
	6/17/2019	17.20	7.25	1,740	3,460	31.60*	-26.0
	9/10/2019	17.90	6.27	1,710	3,430	30.80*	-27.7
	11/4/2019	15.10	6.77	1,710	3,370	26.40*	103.1
	3/3/2020	16.20	6.36	1,690	3,360	9.83	-16.7
	5/4/2020	16.20	6.69	1,670	3,340	2.66	-23.2
8/19/2020	19.20	6.58	1,660	3,370	1.86	-13.4	
10/20/2020	17.10	6.51	1,480	3,030	1.78	-11.8	
8/19/2025	36.35	7.456	0.02	31.07	0.999	-85.9	



TABLE 2
GROUNDWATER QUALITY MEASUREMENTS

San Juan 29-7 Unit 37
Hilcorp Energy Company
Rio Arriba County, New Mexico

Well Identification	Date	Temperature (°C)	pH	TDS (mg/L)	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-6	3/17/2015	17.30	6.90	1,800	2,800	--	103.0
	6/16/2015	17.77	6.73	1,584	2,437	2.12	1.9
	9/15/2015	15.96	6.57	1,784	2,745	2.87	84.3
	12/1/2015	16.18	7.32	1,867	2,873	2.93	82.9
	3/29/2016	16.64	6.77	1,700	2,630	4.89	103.0
	6/21/2016	17.00	7.11	--	27	3.86	59.8
	9/7/2016	16.48	7.00	1,676	2,578	1.87	8.7
	12/2/2016	12.07	7.29	--	2,409	4.10	50.8
	3/7/2017	14.16	7.10	1,936	2,979	2.01	-63.8
	6/13/2017	16.86	7.00	1,716	2,640	2.29	-36.8
	9/26/2017	16.61	6.51	--	2,287	--	--
	12/19/2017	13.49	6.85	--	2,640	--	--
	3/14/2018	16.20	6.94	--	2,581	2.36	68.9
	6/26/2018	22.89	6.91	--	2,494	2.20	52.8
	9/5/2018	20.66	7.18	--	2,381	2.13	65.0
	3/26/2019	16.40	6.95	1,270	2,540	--	-0.6
	6/18/2020	17.20	7.19	1,280	2,570	38.70*	-16.1
9/11/2019	18.50	6.20	1,280	2,560	38.80*	-13.4	
11/5/2019	16.90	6.31	1,300	2,620	94.90*	-14.5	
3/4/2020	15.10	6.54	1,290	2,580	5.92	-8.7	



TABLE 2 GROUNDWATER QUALITY MEASUREMENTS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico							
Well Identification	Date	Temperature (°C)	pH	TDS (mg/L)	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-6	5/6/2020	17.40	6.39	1,280	2,570	3.26	-5.6
	8/20/2020	18.50	6.67	1,240	2,600	2.35	-11.6
	10/20/2020	18.10	6.39	1,150	2,270	3.52	-6.3
	8/19/2025	38.36	8.028	1,603	2,466	4.704	123.4
MW-6 NP	8/19/2025	37.36	7.449	0.952	1,465	4.088	37.3
MW-7	3/17/2015	17.40	7.64	2,600	4,100	--	118.0
	6/16/2015	17.05	8.28	2,366	3,639	3.73	-48.2
	9/15/2015	16.47	7.66	2,663	4,096	6.44	85.4
	12/1/2015	16.03	7.90	2,853	4,389	2.00	-65.0
	3/29/2016	18.42	7.45	2,600	4,050	7.12	108.0
	6/21/2016	16.40	7.50	--	3,990	5.73	58.1
	9/7/2016	16.04	7.54	2,571	3,970	6.15	59.2
	12/2/2016	14.19	7.57	--	3,604	5.91	47.7
	3/7/2017	13.80	7.59	2,853	4,390	8.58	-29.4
	6/13/2017	17.73	7.47	2,510	3,863	9.30	-2.2
	9/26/2017	16.71	7.07	--	3,337	--	--
	12/19/2017	13.35	7.33	--	3,799	--	--
	3/14/2018	16.21	7.26	--	3,674	8.57	71.9
	6/26/2018	18.13	7.20	--	3,596	8.44	56.5
	9/5/2018	21.46	7.59	--	3,438	6.08	65.5
	3/25/2019	16.20	7.37	1,770	3,560	--	-30.6
	6/14/2019	18.20	7.03	1,820	3,650	46.20*	-22.5
	9/9/2019	18.10	7.23	1,810	3,620	35.60*	-50.5
	11/1/2019	13.50	6.61	1,750	3,410	139.50*	-32.2
	3/2/2020	14.50	6.61	1,760	3,500	8.71	-32.1
5/1/2020	18.80	6.60	1,780	3,580	3.88	-25.3	
8/18/2020	20.30	6.99	1,800	3,510	2.35	-27.8	
10/19/2020	16.70	6.42	1,580	3,130	3.98	-22.5	
8/19/2025	34.66	7.524	0.014	22,130	2,718	170.2	
MW-8R	3/17/2015	19.30	6.96	2,100	3,310	--	30.0
	6/16/2015	17.82	7.07	1,970	3,033	0.48	-50.3
	9/15/2015	18.30	6.91	2,222	3,431	1.20	-10.7
	12/1/2015	16.75	7.41	2,341	3,595	1.08	-91.3
	3/29/2016	15.86	7.24	2,100	3,340	4.49	-56.0
	6/21/2016	18.20	7.15	--	3,230	0.18	-104.8
	9/7/2016	17.21	7.07	2,128	3,274	0.53	-81.1
	12/1/2016	13.01	7.10	--	2,930	2.36	39.6
	3/7/2017	14.89	7.40	2,368	3,644	2.40	-144.1
	6/13/2017	17.30	7.13	2,061	3,171	0.49	-103.0
	9/26/2017	19.77	6.97	--	2,860	--	--
	12/19/2017	14.97	7.11	--	3,176	--	--
	3/14/2018	19.03	7.09	--	3,127	0.04	-3.6
	6/26/2018	21.51	7.04	--	3,015	0.26	-13.9
	9/5/2018	21.78	7.32	--	2,872	0.05	8.3
	3/28/2019	17.00	7.32	1,560	3,070	--	-11.4
	6/24/2019	17.60	7.25	1,580	3,160	23.60*	-22.5



TABLE 2 GROUNDWATER QUALITY MEASUREMENTS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico							
Well Identification	Date	Temperature (°C)	pH	TDS (mg/L)	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
	9/13/2019	20.10	6.09	1,570	3,140	30.10*	-27.2
	11/6/2019	15.90	6.37	1,540	3,120	118.20*	-9.8
	3/5/2020	16.00	6.76	1,530	3,060	6.71	-32.1
	5/7/2020	20.04	6.51	1,610	3,240	--	-24.1
	8/21/2020	24.20	6.76	1,500	2,970	1.78	-14.3
	10/22/2020	15.90	6.76	1,430	2,840	4.04	-19.0
MW-8R	3/2/2021	15.80	6.96	1,420	2,840	0.72	-13.3
	9/24/2021	18.40	7.12	--	7,760*	--	--
	3/2/2022	17.30	6.85	--	2,690	--	--
	9/20/2022	23.50	6.80	1,200	2,400	--	--
	3/2/2023	13.00	7.44	1,210	2,430	--	--
	10/3/2023	26.41	7.88	2,090	3,217	1.63	127.2
	3/20/2024	21.12	7.75	1.68	2,594.6	1.63	-17.2
	12/30/2024	14.67	8.70	1.80	2,778.1	2.02	-51.1
8/19/2025	33.78	7.685	1.726	2,660	2.078	171.9	

Notes:

°C: degrees Celcius
 DO: dissolved oxygen
 uS/cm: microsiemens per centimeter
 mg/L: milligrams per liter
 mV: millivolts

ORP: oxidation-reduction potential
 TDS: total dissolved solids
 --: data not collected
 *: anomalous data
 NP: Not Purged



TABLE 3
GROUNDWATER ANALYTICAL
 San Juan 29-7 Unit 37
 Hilcorp Energy Company
 Rio Arriba County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)
NMWQCC Standards		0.005	1	0.7
MW-1	3/17/2011	0.066	0.39	0.011
	8/17/2011	0.0189	0.0068	< 0.001
	10/18/2011	--	--	--
	2/23/2012	< 0.001	< 0.001	< 0.001
	6/5/2012	< 0.001	0.002	< 0.001
	9/18/2012	< 0.001	< 0.001	< 0.001
	1/8/2013	< 0.001	< 0.001	< 0.001
	3/26/2013	< 0.001	< 0.001	< 0.001
	6/11/2013	< 0.001	< 0.001	< 0.001
	9/10/2013	< 0.001	< 0.001	< 0.001
	1/7/2014	< 0.001	< 0.001	< 0.001
	3/18/2014	0.0036	< 0.001	< 0.001
	6/16/2014	--	--	--
	9/25/2014	< 0.001	< 0.001	< 0.001
	12/16/2014	< 0.001	< 0.001	< 0.001
	3/17/2015	< 0.001	< 0.001	< 0.001
	6/16/2015	< 0.001	< 0.001	< 0.001
	9/15/2015	< 0.001	< 0.001	< 0.001
	12/1/2015	< 0.001	< 0.001	< 0.001
	3/29/2016	< 0.001	< 0.001	< 0.001
	6/21/2016	< 0.001	< 0.001	< 0.001
	9/7/2016	< 0.001	< 0.001	< 0.001
	12/2/2016	< 0.001	< 0.001	< 0.001
	3/7/2017	--	--	--
	6/13/2017	--	--	--
	9/26/2017	--	--	--
	12/19/2017	--	--	--
	3/14/2018	--	--	--
	6/26/2018	--	--	--
	9/5/2018	--	--	--
12/14/2018	--	--	--	
3/29/2019	< 0.001	< 0.001	< 0.001	
6/24/2019	--	--	--	
9/13/2019	--	--	--	
11/6/2019	--	--	--	



TABLE 3
GROUNDWATER ANALYTICAL
 San Juan 29-7 Unit 37
 Hilcorp Energy Company
 Rio Arriba County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)
NMWQCC Standards		0.005	1	0.7
MW-1	3/5/2020	--	--	--
	5/6/2020	--	--	--
	8/20/2020	--	--	--
	10/21/2020	--	--	--
	3/2/2021	--	--	--
	9/24/2021	--	--	--
	3/3/2022	--	--	--
	9/20/2022	--	--	--
	3/2/2023	--	--	--
	10/3/2023	--	--	--
	3/20/2024	--	--	--
	12/30/2024	--	--	--
	8/19/2025	< 0.001	< 0.001	< 0.001
MW-1 NP	8/19/2025	< 0.001	< 0.001	< 0.001
MW-2	3/17/2011	< 0.001	< 0.001	< 0.001
	8/17/2011	< 0.001	< 0.001	< 0.001
	10/18/2011	--	--	--
	2/23/2012	< 0.001	< 0.001	< 0.001
	6/5/2012	< 0.001	< 0.001	< 0.001
	9/18/2012	< 0.001	< 0.001	< 0.001
	1/8/2013	< 0.001	< 0.001	< 0.001
	3/26/2013	< 0.001	< 0.001	< 0.001
	6/11/2013	< 0.001	< 0.001	< 0.001
	9/10/2013	< 0.001	< 0.001	< 0.001
	1/7/2014	< 0.001	< 0.001	< 0.001
	3/18/2014	< 0.001	< 0.001	< 0.001
	6/16/2014	< 0.001	< 0.001	< 0.001
	9/16/2014	< 0.001	< 0.001	< 0.001
	12/16/2014	< 0.001	< 0.001	< 0.001
	3/17/2015	< 0.001	< 0.001	< 0.001
	6/16/2015	< 0.001	< 0.001	< 0.001
	9/15/2015	< 0.001	< 0.001	< 0.001
	12/1/2015	< 0.001	< 0.001	< 0.001
	3/29/2016	< 0.001	< 0.001	< 0.001
6/21/2016	< 0.001	< 0.001	< 0.001	
9/7/2016	< 0.001	< 0.001	< 0.001	



TABLE 3
GROUNDWATER ANALYTICAL
 San Juan 29-7 Unit 37
 Hilcorp Energy Company
 Rio Arriba County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)
NMWQCC Standards		0.005	1	0.7
MW-2	12/2/2016	< 0.001	< 0.001	< 0.001
	3/7/2017	--	--	--
	6/13/2017	--	--	--
	9/26/2017	--	--	--
	12/19/2017	--	--	--
	3/14/2018	--	--	--
	6/26/2018	--	--	--
	9/5/2018	--	--	--
	12/14/2016	--	--	--
	3/29/2019	--	--	--
	6/18/2019	--	--	--
	9/11/2019	--	--	--
	11/5/2019	--	--	--
	3/4/2020	--	--	--
	5/7/2020	--	--	--
	8/21/2020	--	--	--
	10/22/2020	--	--	--
8/19/2025	< 0.001	< 0.001	< 0.001	
MW-3	3/17/2011	< 0.001	0.013	< 0.001
	8/17/2011	< 0.001	< 0.001	< 0.001
	10/18/2011	--	--	--
	2/23/2012	< 0.001	< 0.001	< 0.001
	6/5/2012	< 0.001	< 0.001	< 0.001
	9/18/2012	< 0.001	< 0.001	< 0.001
	1/8/2013	< 0.001	< 0.001	< 0.001
	3/26/2013	< 0.001	< 0.001	< 0.001
	6/11/2013	< 0.001	< 0.001	< 0.001
	9/10/2013	< 0.001	< 0.001	< 0.001
	1/7/2014	< 0.001	< 0.001	< 0.001
	3/18/2014	< 0.001	< 0.001	< 0.001
	6/16/2014	< 0.001	< 0.001	< 0.001
	9/16/2014	< 0.001	< 0.001	< 0.001
	12/16/2014	< 0.001	< 0.001	< 0.001
	3/17/2015	< 0.001	< 0.001	< 0.001
	6/16/2015	< 0.001	< 0.001	< 0.001
	9/15/2015	< 0.001	< 0.001	< 0.001
	12/1/2015	< 0.001	< 0.001	< 0.001
	3/29/2016	< 0.001	< 0.001	< 0.001
6/21/2016	< 0.001	< 0.001	< 0.001	



TABLE 3
GROUNDWATER ANALYTICAL
 San Juan 29-7 Unit 37
 Hilcorp Energy Company
 Rio Arriba County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)
NMWQCC Standards		0.005	1	0.7
MW-3	9/7/2016	< 0.001	< 0.001	< 0.001
	12/2/2016	< 0.001	< 0.001	< 0.001
	3/7/2017	--	--	--
	6/13/2017	--	--	--
	9/26/2017	--	--	--
	12/19/2017	--	--	--
	3/14/2018	--	--	--
	6/26/2018	--	--	--
	9/5/2018	--	--	--
	12/14/2018	--	--	--
	3/29/2019	--	--	--
	6/17/2019	--	--	--
	9/10/2019	--	--	--
	11/4/2019	--	--	--
	3/3/2020	--	--	--
	5/4/2020	--	--	--
	8/19/2020	--	--	--
	10/21/2020	--	--	--
	3/1/2021	--	--	--
	9/24/2021	--	--	--
3/2/2022	--	--	--	
9/20/2022	--	--	--	
3/2/2023	--	--	--	
10/3/2023	--	--	--	
3/20/2024	--	--	--	
8/19/2025	< 0.001	< 0.001	< 0.001	
MW-4	3/17/2011	< 0.001	< 0.001	< 0.001
	8/17/2011	< 0.001	< 0.001	< 0.001
	10/18/2011	--	--	--
	2/23/2012	< 0.001	< 0.001	< 0.001
	6/5/2012	< 0.001	< 0.001	< 0.001
	9/18/2012	< 0.001	< 0.001	< 0.001
	1/8/2013	< 0.001	< 0.001	< 0.001
	3/26/2013	< 0.001	< 0.001	< 0.001
	6/11/2013	< 0.001	< 0.001	< 0.001
	9/10/2013	< 0.001	< 0.001	< 0.001
	1/7/2014	< 0.001	< 0.001	< 0.001



TABLE 3
GROUNDWATER ANALYTICAL
 San Juan 29-7 Unit 37
 Hilcorp Energy Company
 Rio Arriba County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)
NMWQCC Standards		0.005	1	0.7
MW-4	3/18/2014	< 0.001	< 0.001	< 0.001
	6/16/2014	--	--	--
	9/25/2014	< 0.001	< 0.001	< 0.001
	12/16/2014	< 0.001	< 0.001	< 0.001
	3/17/2015	< 0.001	< 0.001	< 0.001
	6/16/2015	< 0.001	< 0.001	< 0.001
	9/15/2015	< 0.001	< 0.001	< 0.001
	12/1/2015	< 0.001	0.0023	< 0.001
	3/29/2016	< 0.001	< 0.001	< 0.001
	6/21/2016	< 0.001	< 0.001	< 0.001
	9/7/2016	< 0.001	< 0.001	< 0.001
	12/2/2016	< 0.001	< 0.001	< 0.001
	3/7/2017	--	--	--
	6/13/2017	--	--	--
	9/26/2017	--	--	--
	12/19/2017	--	--	--
	3/14/2018	--	--	--
	6/26/2018	--	--	--
	9/5/2018	--	--	--
	12/14/2018	--	--	--
	3/29/2019	--	--	--
	6/14/2019	--	--	--
	9/9/2019	--	--	--
	11/4/2019	--	--	--
	3/2/2020	--	--	--
5/1/2020	--	--	--	
8/18/2020	--	--	--	
10/19/2020	--	--	--	
8/19/2025	< 0.001	< 0.001	< 0.001	
MW-5	10/18/2011	< 0.001	< 0.001	< 0.001
	2/23/2012	< 0.001	< 0.001	< 0.001
	6/5/2012	< 0.001	< 0.001	< 0.001
	9/18/2012	< 0.001	< 0.001	< 0.001
	1/8/2013	< 0.001	< 0.001	< 0.001
	3/26/2013	< 0.001	< 0.001	< 0.001
	6/11/2013	< 0.001	< 0.001	< 0.001
	9/10/2013	< 0.001	< 0.001	< 0.001



TABLE 3
GROUNDWATER ANALYTICAL
 San Juan 29-7 Unit 37
 Hilcorp Energy Company
 Rio Arriba County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)
NMWQCC Standards		0.005	1	0.7
MW-5	1/7/2014	< 0.001	< 0.001	< 0.001
	3/18/2014	< 0.001	< 0.001	< 0.001
	6/16/2014	< 0.001	< 0.001	< 0.001
	9/16/2014	< 0.001	< 0.001	< 0.001
	12/16/2014	< 0.001	< 0.001	< 0.001
	3/17/2015	< 0.001	< 0.001	< 0.001
	6/16/2015	< 0.001	< 0.001	< 0.001
	9/15/2015	< 0.001	< 0.001	< 0.001
	12/1/2015	< 0.001	< 0.001	< 0.001
	3/29/2016	< 0.001	< 0.001	< 0.001
	6/21/2016	< 0.001	< 0.001	< 0.001
	9/7/2016	< 0.001	< 0.001	< 0.001
	12/2/2016	< 0.001	< 0.001	< 0.001
	3/7/2017	--	--	--
	6/13/2017	--	--	--
	9/26/2017	--	--	--
	12/19/2017	--	--	--
	3/14/2018	--	--	--
	6/26/2018	--	--	--
	9/5/2018	--	--	--
	12/14/2018	--	--	--
	3/29/2019	--	--	--
	6/17/2019	--	--	--
	9/10/2019	--	--	--
	11/4/2019	--	--	--
	3/3/2020	--	--	--
5/4/2020	--	--	--	
8/19/2020	--	--	--	
10/20/2020	--	--	--	
8/19/2025	< 0.001	< 0.001	< 0.001	
MW-6	10/18/2011	0.033	< 0.001	< 0.001
	2/23/2012	< 0.001	< 0.001	< 0.001
	6/5/2012	< 0.001	< 0.001	< 0.001
	9/18/2012	< 0.001	< 0.001	< 0.001
	1/8/2013	0.0012	< 0.001	< 0.001
	3/26/2013	0.0022	< 0.001	< 0.001
	6/11/2013	< 0.001	< 0.001	< 0.001



TABLE 3
GROUNDWATER ANALYTICAL
 San Juan 29-7 Unit 37
 Hilcorp Energy Company
 Rio Arriba County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)
NMWQCC Standards		0.005	1	0.7
MW-6	9/10/2013	< 0.001	< 0.001	< 0.001
	1/7/2014	0.0026	< 0.001	< 0.001
	3/18/2014	0.0012	< 0.001	< 0.001
	6/16/2014	< 0.001	< 0.001	< 0.001
	9/16/2014	< 0.001	< 0.001	< 0.001
	12/16/2014	0.0014	< 0.001	< 0.001
	3/17/2015	< 0.001	0.0018	< 0.001
	6/16/2015	< 0.001	0.002	< 0.001
	9/15/2015	< 0.001	< 0.001	< 0.001
	12/1/2015	< 0.001	< 0.001	< 0.001
	3/29/2016	0.0020	0.0034	0.0015
	6/21/2016	< 0.001	< 0.001	< 0.001
	9/7/2016	< 0.001	< 0.001	< 0.001
	12/2/2016	< 0.001	< 0.001	< 0.001
	3/7/2017	--	--	--
	6/13/2017	--	--	--
	9/26/2017	--	--	--
	12/19/2017	--	--	--
	3/14/2018	--	--	--
	6/26/2018	--	--	--
	9/5/2018	--	--	--
	12/14/2018	--	--	--
	3/29/2019	--	--	--
	6/18/2019	--	--	--
	9/11/2019	--	--	--
	11/5/2019	--	--	--
	3/4/2020	--	--	--
5/6/2020	--	--	--	
8/20/2020	--	--	--	
10/20/2020	--	--	--	
8/19/2025	< 0.001	< 0.001	< 0.001	
MW-6 NP	8/19/2025	< 0.001	< 0.001	< 0.001
MW-7	10/18/2011	< 0.001	< 0.001	< 0.001
	2/23/2012	< 0.001	0.0011	< 0.001
	6/5/2012	< 0.001	< 0.001	< 0.001
	9/18/2012	< 0.001	< 0.001	< 0.001
	1/8/2013	< 0.001	< 0.001	< 0.001
	3/26/2013	< 0.001	< 0.001	< 0.001
	6/11/2013	< 0.001	< 0.001	< 0.001



TABLE 3
GROUNDWATER ANALYTICAL
 San Juan 29-7 Unit 37
 Hilcorp Energy Company
 Rio Arriba County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)
NMWQCC Standards		0.005	1	0.7
MW-7	9/10/2013	< 0.001	< 0.001	< 0.001
	1/7/2014	< 0.001	< 0.001	< 0.001
	3/18/2014	< 0.001	< 0.001	< 0.001
	6/16/2014	--	--	--
	9/25/2014	< 0.001	< 0.001	< 0.001
	12/16/2014	0.0013	0.0031	< 0.001
	3/17/2015	< 0.001	< 0.001	< 0.001
	6/16/2015	0.0023	0.0071	< 0.001
	9/15/2015	< 0.001	< 0.001	< 0.001
	12/1/2015	0.0012	0.0053	< 0.001
	3/29/2016	< 0.001	< 0.001	< 0.001
	6/21/2016	< 0.001	< 0.001	< 0.001
	9/7/2016	< 0.001	< 0.001	< 0.001
	12/2/2016	< 0.001	< 0.001	< 0.001
	3/7/2017	--	--	--
	6/13/2017	--	--	--
	9/26/2017	--	--	--
	12/19/2017	--	--	--
	3/14/2018	--	--	--
	6/26/2018	--	--	--
	9/5/2018	--	--	--
	12/14/2018	--	--	--
	3/29/2019	--	--	--
	6/14/2019	--	--	--
	9/9/2019	--	--	--
	11/1/2019	--	--	--
3/2/2020	--	--	--	
5/1/2020	--	--	--	
8/18/2020	--	--	--	
10/19/2020	--	--	--	
8/19/2025	< 0.001	< 0.001	< 0.001	



TABLE 3
GROUNDWATER ANALYTICAL

San Juan 29-7 Unit 37
Hilcorp Energy Company
Rio Arriba County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)
NMWQCC Standards		0.005	1	0.7
MW-8	10/19/2011	0.15	1.24	0.070
	2/23/2012	0.036	0.772	0.054
	6/5/2012	0.013	0.120	0.025
	9/20/2012	0.0098	0.002	0.006
	1/8/2013	0.0369	0.0199	0.0018
	3/26/2013	Not sampled due to damaged well casing.		
	6/11/2013	Not sampled due to damaged well casing.		
	7/13/2013	Plugged and Abandoned		
MW-8R	9/10/2013	0.0100	0.0171	0.0017
	1/7/2014	0.179	0.353	0.0105
	3/18/2014	0.103	0.154	0.0076
	6/16/2014	0.319	0.846	0.0305
	9/25/2014	0.172	0.0022	< 0.001
	12/16/2014	0.187	0.301	0.0248
	3/17/2015	0.262	0.0205	0.714
	6/16/2015	0.191	0.418	0.0147
	9/15/2015	0.451	1.04	0.0587
	12/1/2015	0.412	0.873	0.0257
	3/29/2016	0.173	0.313	0.0136
	6/21/2016	0.193	0.586	0.0168
	9/7/2016	0.27	0.901	0.0291
	12/2/2016	0.162	0.122	< 0.005
	3/7/2017	0.0186	<0.001	<0.001
	6/13/2017	0.0037	0.0047	<0.001
	9/26/2017	0.0032	0.0029	<0.001
	12/19/2017	0.0014	0.0022	< 0.001
	3/14/2018	<0.001	0.0013	<0.001
	6/26/2018	<0.001	<0.001	<0.001
	9/5/2018	<0.001	<0.001	<0.001
	12/14/2018	<0.001	<0.001	<0.001
	3/29/2019	<0.001	<0.001	<0.001
	6/24/2019	--	--	--
	9/13/2019	<0.001	<0.001	<0.001
	11/6/2019	<0.001	<0.001	<0.001
	3/5/2020	--	--	--
	5/7/2020	--	--	--
8/21/2020	--	--	--	



TABLE 3 GROUNDWATER ANALYTICAL San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)
NMWQCC Standards		0.005	1	0.7
MW-8R	10/22/2020	--	--	--
	3/2/2021	--	--	--
	9/24/2021	--	--	--
	3/2/2022	--	--	--
	9/20/2022	--	--	--
	3/2/2023	--	--	--
	10/3/2023	--	--	--
	3/20/2024	--	--	--
	12/30/2024	--	--	--
	8/19/2025	<0.001	<0.001	<0.001

Notes:

mg/L: milligrams per liter

NP: Not Purged

NMWQCC: New Mexico Water Quality Control Commission

--: not analyzed

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

Cells shaded in gray indicate groundwater samples collected prior to CoolOx™ treatment

Concentrations in **bold** and shaded exceed the New Mexico Water Quality Control Commission Standards, 20.6.2 of the I

RESULTS			
Xylenes (total) (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Dissolved Manganese (mg/L)
0.62	NE	NE	0.2
0.084	1.5	0.28	2.77
0.0044	< 0.50	< 0.50	0.318
--	--	--	--
< 0.003	--	--	6.40
< 0.003	--	--	5.15
< 0.003	--	--	2.60
< 0.003	--	--	1.10
< 0.003	--	--	0.486
< 0.003	--	--	0.520
< 0.003	--	--	0.164
< 0.003	--	--	0.132
< 0.003	--	--	0.643
--	--	--	1.20
< 0.003	--	--	1.57
< 0.003	--	--	1.49
< 0.003	--	--	1.60
< 0.003	--	--	1.36
< 0.003	--	--	1.52
< 0.003	--	--	1.76
< 0.003	--	--	1.86
< 0.003	--	--	1.72
< 0.003	--	--	1.38
< 0.003	--	--	--
--	--	--	1.90
--	--	--	1.76
--	--	--	2.04
--	--	--	1.75
--	--	--	1.94
--	--	--	1.83
--	--	--	1.83
--	--	--	1.8
< 0.003	--	--	0.056
--	--	--	2.00
--	--	--	1.800
--	--	--	0.608

RESULTS			
Xylenes (total) (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Dissolved Manganese (mg/L)
0.62	NE	NE	0.2
--	--	--	1.28
--	--	--	1.11
--	--	--	1.57
--	--	--	0.625
--	--	--	1.02
--	--	--	1.5
--	--	--	1.8
--	--	--	2.0
--	--	--	1.7
--	--	--	0.24
--	--	--	2.3
--	--	--	1.6
<0.0015	--	--	1.9
<0.0015	--	--	0.44
< 0.001	< 0.1	< 0.11	0.334
< 0.003	< 0.50	< 0.50	0.179
--	--	--	--
< 0.003	--	--	0.0360
< 0.003	--	--	0.0078
< 0.003	--	--	0.0194
< 0.003	--	--	0.0057
< 0.003	--	--	0.0188
< 0.003	--	--	0.0086
< 0.003	--	--	< 0.0050
< 0.003	--	--	0.0069
< 0.003	--	--	0.281
< 0.003	--	--	0.09
< 0.003	--	--	0.783
< 0.003	--	--	0.746
< 0.003	--	--	0.0195
< 0.003	--	--	0.0703
< 0.003	--	--	< 0.005
< 0.003	--	--	0.0144
< 0.003	--	--	< 0.005
< 0.003	--	--	0.0099
< 0.003	--	--	0.0104

RESULTS			
Xylenes (total) (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Dissolved Manganese (mg/L)
0.62	NE	NE	0.2
< 0.003	--	--	< 0.005
--	--	--	< 0.005
--	--	--	< 0.005
--	--	--	< 0.005
--	--	--	< 0.005
--	--	--	< 0.005
--	--	--	--
--	--	--	< 0.005
--	--	--	< 0.01
--	--	--	< 0.01
--	--	--	< 0.01
--	--	--	< 0.01
--	--	--	< 0.01
--	--	--	<0.005
--	--	--	<0.005
--	--	--	<0.005
--	--	--	<0.005
<0.0015	--	--	--
0.0042	< 0.1	< 0.1	1.79
< 0.003	< 0.50	< 0.50	1.42
--	--	--	--
< 0.003	--	--	1.60
< 0.003	--	--	1.43
< 0.003	--	--	1.24
< 0.003	--	--	1.62
< 0.003	--	--	1.83
< 0.003	--	--	1.75
< 0.003	--	--	1.7
< 0.003	--	--	1.77
< 0.003	--	--	1.81
< 0.003	--	--	2
< 0.003	--	--	2.29
< 0.003	--	--	2.06
< 0.003	--	--	2.06
< 0.003	--	--	1.88
< 0.003	--	--	2.1
< 0.003	--	--	2.17
< 0.003	--	--	2.14
< 0.003	--	--	1.92

RESULTS			
Xylenes (total) (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Dissolved Manganese (mg/L)
0.62	NE	NE	0.2
< 0.003	--	--	1.88
< 0.003	--	--	1.98
--	--	--	2.22
--	--	--	1.87
--	--	--	1.82
--	--	--	1.82
--	--	--	1.97
--	--	--	1.94
--	--	--	1.88
--	--	--	1.76
--	--	--	1.75
--	--	--	1.74
--	--	--	1.74
--	--	--	1.74
--	--	--	1.84
--	--	--	1.64
--	--	--	1.72
--	--	--	1.69
--	--	--	1.64
--	--	--	1.9
--	--	--	1.7
--	--	--	1.6
--	--	--	1.8
--	--	--	1.7
--	--	--	2.1
<0.0015	--	--	0.60
< 0.001	< 0.1	0.14	0.022
< 0.003	< 0.50	< 0.50	0.0062
--	--	--	#VALUE!
< 0.003	--	--	0.0170
< 0.003	--	--	0.0814
< 0.003	--	--	0.1030
< 0.003	--	--	0.0289
< 0.003	--	--	0.0605
< 0.003	--	--	0.0484
< 0.003	--	--	0.0303
< 0.003	--	--	0.0265

RESULTS			
Xylenes (total) (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Dissolved Manganese (mg/L)
0.62	NE	NE	0.2
< 0.003	--	--	0.0227
--	--	--	0.0080
< 0.003	--	--	0.0160
< 0.003	--	--	0.0155
< 0.003	--	--	0.0156
< 0.003	--	--	0.0226
< 0.003	--	--	0.0088
< 0.003	--	--	0.0118
< 0.003	--	--	0.0134
< 0.003	--	--	0.0713
< 0.003	--	--	0.0138
< 0.003	--	--	--
--	--	--	--
--	--	--	--
--	--	--	0.0538
--	--	--	0.1280
--	--	--	<0.005
--	--	--	--
--	--	--	0.0217
--	--	--	<0.010
--	--	--	<0.010
--	--	--	<0.010
--	--	--	<0.010
--	--	--	<0.010
--	--	--	<0.005
--	--	--	<0.005
--	--	--	<0.005
--	--	--	<0.005
< 0.0015	--	--	--
< 0.003	< 0.5	< 0.5	--
< 0.003	--	--	1.10
< 0.003	--	--	0.868
< 0.003	--	--	0.791
< 0.003	--	--	0.58
< 0.003	--	--	0.356
< 0.003	--	--	0.609
< 0.003	--	--	0.368

RESULTS			
Xylenes (total) (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Dissolved Manganese (mg/L)
0.62	NE	NE	0.2
< 0.003	--	--	0.396
< 0.003	--	--	0.606
< 0.003	--	--	0.93
< 0.003	--	--	0.433
< 0.003	--	--	0.0706
< 0.003	--	--	0.0433
< 0.003	--	--	0.0331
< 0.003	--	--	0.0215
< 0.003	--	--	0.0163
< 0.003	--	--	0.128
< 0.003	--	--	0.0109
< 0.003	--	--	0.235
< 0.003	--	--	0.214
--	--	--	0.0405
--	--	--	--
--	--	--	1.54
--	--	--	0.182
--	--	--	0.192
--	--	--	0.0054
--	--	--	0.02
--	--	--	<0.010
--	--	--	<0.010
--	--	--	<0.010
--	--	--	<0.010
--	--	--	<0.010
--	--	--	<0.005
--	--	--	<0.005
--	--	--	0.00942
--	--	--	0.0866
< 0.0015	--	--	--
0.012	< 0.5	< 0.5	--
< 0.003	--	--	<0.005
< 0.003	--	--	1.600
< 0.003	--	--	1.110
< 0.003	--	--	0.158
< 0.003	--	--	0.282
< 0.003	--	--	0.328

RESULTS			
Xylenes (total) (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Dissolved Manganese (mg/L)
0.62	NE	NE	0.2
< 0.003	--	--	0.299
0.0034	--	--	0.268
< 0.003	--	--	0.246
< 0.003	--	--	0.140
< 0.003	--	--	0.115
< 0.003	--	--	0.147
< 0.003	--	--	0.114
0.0037	--	--	0.0917
< 0.003	--	--	0.0456
< 0.003	--	--	0.0396
0.0048	--	--	0.0338
< 0.003	--	--	0.0819
< 0.003	--	--	0.1070
< 0.003	--	--	--
--	--	--	0.1290
--	--	--	0.0734
--	--	--	0.0787
--	--	--	0.0481
--	--	--	0.0459
--	--	--	--
--	--	--	0.024
--	--	--	<0.010
--	--	--	<0.010
--	--	--	<0.010
--	--	--	<0.010
--	--	--	<0.010
--	--	--	<0.005
--	--	--	<0.005
--	--	--	<0.005
--	--	--	<0.005
< 0.0015	--	--	--
< 0.0015	--	--	--
< 0.003	< 0.5	< 0.5	--
0.0034	--	--	< 0.005
< 0.003	--	--	0.019
< 0.003	--	--	0.012
< 0.003	--	--	0.0093
< 0.003	--	--	<0.005
< 0.003	--	--	0.0082

RESULTS			
Xylenes (total) (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Dissolved Manganese (mg/L)
0.62	NE	NE	0.2
< 0.003	--	--	0.168
< 0.003	--	--	0.452
< 0.003	--	--	0.438
--	--	--	0.49
< 0.003	--	--	0.231
< 0.003	--	--	0.435
< 0.003	--	--	0.321
0.0045	--	--	0.256
< 0.003	--	--	0.227
< 0.003	--	--	0.108
< 0.003	--	--	0.102
< 0.003	--	--	0.0552
< 0.003	--	--	0.0387
< 0.003	--	--	--
--	--	--	0.0077
--	--	--	<0.005
--	--	--	0.2620
--	--	--	<0 .0050
--	--	--	0.0056
--	--	--	<0 .0050
--	--	--	<0 .0050
--	--	--	<0 .010
--	--	--	<0 .010
--	--	--	<0 .010
--	--	--	<0 .010
--	--	--	<0 .010
--	--	--	<0.005
--	--	--	<0.005
--	--	--	<0.005
--	--	--	<0.005
< 0.0015	--	--	--

RESULTS			
Xylenes (total) (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Dissolved Manganese (mg/L)
0.62	NE	NE	0.2
1.43	7.1	< 0.5	--
1.35	--	--	<0.005
0.447	--	--	0.022
0.342	--	--	--
0.0488	--	--	--
0.0615	--	--	0.395
0.69	--	--	0.255
0.164	--	--	0.106
0.505	--	--	1.5
0.0067	--	--	1.38
0.368	--	--	1.01
0.501	--	--	0.323
0.300	--	--	0.707
0.881	--	--	0.7
0.508	--	--	0.84
0.222	--	--	1.16
0.466	--	--	0.431
0.670	--	--	0.758
0.246	--	--	0.488
<0.003	--	--	0.437
0.0089	--	--	0.396
0.0088	--	--	0.0218
0.0059	--	--	0.432
<0.003	--	--	0.364
<0.003	--	--	0.434
<0.003	--	--	0.442
<0.003	--	--	0.238
<0.003	--	--	0.172
--	--	--	0.427
<0.003	--	--	0.357
<0.003	--	--	0.0153
--	--	--	1.98
--	--	--	0.775
--	--	--	0.0524

RESULTS			
Xylenes (total) (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Dissolved Manganese (mg/L)
0.62	NE	NE	0.2
--	--	--	0.710
--	--	--	0.622
--	--	--	0.89
--	--	--	0.31
--	--	--	0.60
--	--	--	0.52
--	--	--	0.43
--	--	--	0.65
--	--	--	0.61
<0.0015	--	--	1.50

New Mexico Administrative Code



TABLE 1
GROUNDWATER ELEVATIONS

San Juan 29-7 Unit 37
Hilcorp Energy Company
Rio Arriba County, New Mexico

Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-1	189.24	3/17/2011	108.91	80.33
		8/17/2011	108.81	80.43
		10/18/2011	108.87	80.37
		2/23/2012	108.74	80.50
		6/5/2012	108.75	80.49
		9/18/2012	108.68	80.56
		1/8/2013	108.62	80.62
		3/26/2013	108.69	80.55
		6/11/2013	108.81	80.43
		9/10/2013	109.04	80.20
		1/7/2014	109.26	79.98
		3/18/2014	109.10	80.14
		6/16/2014	109.31	79.93
		9/25/2014	109.54	79.70
		12/16/2014	109.59	79.65
		3/17/2015	109.61	79.63
		6/16/2015	109.68	79.56
		9/15/2015	109.62	79.62
		12/1/2015	109.78	79.46
		3/29/2016	109.61	79.63
		6/21/2016	109.89	79.35
		9/7/2016	109.87	79.37
		11/30/2016	109.89	79.35
		3/7/2017	109.92	79.32
		6/13/2017	110.06	79.18
		9/26/2017	110.00	79.24
		12/19/2017	109.99	79.25
		3/14/2018	109.93	79.31
6/26/2018	110.02	79.22		
9/5/2018	110.06	79.18		
12/14/2018	110.04	79.20		
3/29/2019	109.95	79.29		
6/24/2019	110.44	78.80		
9/13/2019	110.12	79.12		



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-1	189.24	11/6/2019	110.05	79.19
		3/5/2020	110.16	79.08
		5/6/2020	110.13	79.11
		8/20/2020	110.04	79.20
		10/21/2020	110.01	79.23
		3/2/2021	110.16	79.08
		9/24/2021	110.50	78.74
		3/3/2022	110.16	79.08
		9/20/2022	110.19	79.05
		3/2/2023	110.04	79.20
		10/3/2023	110.08	79.16
		3/20/2024	109.58	79.66
		12/30/2024	109.59	79.65
8/19/2025	110.9	78.34		
MW-2	189.60	3/17/2011	109.20	80.40
		8/17/2011	109.10	80.50
		10/18/2011	109.13	80.47
		2/23/2012	109.05	80.55
		6/5/2012	109.10	80.50
		9/18/2012	109.28	80.32
		1/8/2013	109.07	80.53
		3/26/2013	109.12	80.48
		6/11/2013	109.32	80.28
		9/10/2013	109.32	80.28
		1/7/2014	109.71	79.89
		3/18/2014	109.71	79.89
		6/16/2014	109.83	79.77
		9/16/2014	109.94	79.66
		12/16/2014	110.04	79.56
		3/17/2015	110.09	79.51
		6/16/2015	110.17	79.43
		9/15/2015	110.14	79.46
12/1/2015	110.23	79.37		
3/29/2016	110.26	79.34		



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-2	189.60	6/21/2016	110.31	79.29
		9/7/2016	110.33	79.27
		11/30/2016	110.39	79.21
		3/7/2017	110.37	79.23
		6/13/2017	110.35	79.25
		9/26/2017	110.54	79.06
		12/19/2017	110.50	79.10
		3/14/2018	110.54	79.06
		6/26/2018	110.55	79.05
		9/5/2018	110.60	79.00
		12/14/2018	110.51	79.09
		3/27/2019	110.57	79.03
		6/18/2019	110.55	79.05
		9/11/2019	110.57	79.03
		11/5/2019	110.56	79.04
		3/4/2020	110.61	78.99
		5/6/2020	110.63	78.97
		8/21/2020	110.60	79.00
		10/22/2020	110.62	78.98
		3/1/2021	110.63	78.97
		9/24/2021	111.10	78.50
		3/3/2022	110.71	78.89
9/20/2022	--	--		
3/2/2023	110.83	78.77		
10/3/2023	110.58	79.02		
3/20/2024	110.26	79.34		
12/30/2024	110.27	79.33		
8/19/2025	110.42	79.18		
MW-3	189.13	3/17/2011	109.42	79.71
		8/17/2011	109.35	79.78
		10/18/2011	109.37	79.76
		2/23/2012	109.26	79.87
		6/5/2012	109.28	79.85
		9/18/2012	109.30	79.83



TABLE 1
GROUNDWATER ELEVATIONS

San Juan 29-7 Unit 37
Hilcorp Energy Company
Rio Arriba County, New Mexico

Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-3	189.13	1/8/2013	109.28	79.85
		3/26/2013	109.33	79.80
		6/11/2013	109.41	79.72
		9/10/2013	109.58	79.55
		1/7/2014	109.70	79.43
		3/18/2014	109.68	79.45
		6/16/2014	109.84	79.29
		9/16/2014	109.97	79.16
		12/16/2014	110.08	79.05
		3/17/2015	110.03	79.10
		6/16/2015	110.08	79.05
		9/15/2015	110.08	79.05
		12/1/2015	110.24	78.89
		3/29/2016	110.04	79.09
		6/21/2016	110.15	78.98
		9/7/2016	110.27	78.86
		11/30/2016	110.26	78.87
		3/7/2017	110.25	78.88
		6/13/2017	110.36	78.77
		9/26/2017	110.48	78.65
		12/19/2017	110.39	78.74
		3/14/2018	110.35	78.78
		6/26/2018	110.40	78.73
		9/5/2018	110.55	78.58
		12/14/2018	110.30	78.83
		3/26/2019	110.35	78.78
		6/17/2019	110.31	78.82
9/10/2019	110.37	78.76		
11/4/2019	110.38	78.75		
3/3/2020	110.32	78.81		
5/4/2020	110.43	78.70		
8/19/2020	110.41	78.72		
10/21/2020	110.46	78.67		
3/1/2021	110.59	78.54		



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-3	189.13	9/24/2021	110.70	78.43
		3/3/2022	110.53	78.60
		9/20/2022	110.54	78.59
		3/2/2023	110.38	78.75
		10/3/2023	110.28	78.85
		3/20/2024	109.92	79.21
		12/30/2024	109.95	79.18
		8/19/2025	110.05	79.08
MW-4	197.60	3/17/2011	111.11	86.49
		8/17/2011	111.10	86.50
		10/18/2011	111.16	86.44
		2/23/2012	111.14	86.46
		6/5/2012	111.20	86.40
		9/18/2012	111.12	86.48
		1/8/2013	111.14	86.46
		3/26/2013	111.23	86.37
		6/11/2013	111.41	86.19
		9/10/2013	111.47	86.13
		1/7/2014	111.66	85.94
		3/18/2014	111.60	86.00
		6/16/2014	111.68	85.92
		9/25/2014	111.77	85.83
		12/16/2014	111.80	85.80
		3/17/2015	111.77	85.83
		6/16/2015	111.78	85.82
		9/15/2015	111.76	85.84
		12/1/2015	111.89	85.71
		3/29/2016	111.92	85.68
6/21/2016	111.95	85.65		
9/7/2016	111.33	86.27		
11/30/2016	112.03	85.57		
3/7/2017	111.90	85.70		
6/13/2017	111.92	85.68		
9/26/2017	112.01	85.59		



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-4	197.60	12/19/2017	112.05	85.55
		3/15/2018	112.02	85.58
		6/26/2018	112.02	85.58
		9/5/2018	112.05	85.55
		12/14/2018	112.02	85.58
		3/25/2019	112.04	85.56
		6/14/2019	112.03	85.57
		9/9/2019	110.57	87.03
		11/1/2019	112.07	85.53
		3/2/2020	112.05	85.55
		5/1/2020	112.05	85.55
		8/18/2020	112.01	85.59
		10/19/2020	112.02	85.58
		3/1/2021	112.08	85.52
		9/24/2021	112.70	84.90
		3/3/2022	112.06	85.54
		9/20/2022	--	--
		3/2/2023	112.14	85.46
10/3/2023	111.79	85.81		
3/20/2024	111.34	86.26		
12/30/2024	111.37	86.23		
8/19/2025	111.75	85.85		
MW-5	188.70	10/18/2011	108.05	80.65
		2/23/2012	108.44	80.26
		6/5/2012	108.38	80.32
		9/18/2012	108.11	80.59
		1/8/2013	108.36	80.34
		3/26/2013	108.72	79.98
		6/11/2013	108.56	80.14
		9/10/2013	108.77	79.93
		1/7/2014	108.91	79.79
		3/18/2014	108.91	79.79
		6/16/2014	109.01	79.69
		9/16/2014	109.20	79.50



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-5	188.70	12/16/2014	109.22	79.48
		3/17/2015	109.25	79.45
		6/16/2015	109.33	79.37
		9/15/2015	109.37	79.33
		12/1/2015	109.37	79.33
		3/29/2016	109.38	79.32
		6/21/2016	109.63	79.07
		9/7/2016	109.58	79.12
		11/30/2016	109.54	79.16
		3/7/2017	109.63	79.07
		6/13/2017	109.65	79.05
		9/26/2017	109.72	78.98
		12/19/2017	110.64	78.06
		3/14/2018	109.72	78.98
		6/26/2018	109.73	78.97
		9/5/2018	109.74	78.96
		12/14/2018	109.72	78.98
		3/26/2019	109.65	79.05
		6/14/2019	109.80	78.90
		9/10/2019	109.75	78.95
		11/4/2019	109.88	78.82
		3/3/2020	109.73	78.97
		5/4/2020	109.82	78.88
		8/19/2020	109.93	78.77
		10/20/2020	109.84	78.86
		3/1/2021	109.89	78.81
		9/24/2021	109.40	79.30
		3/3/2022	109.93	78.77
9/20/2022	--	--		
3/2/2023	--	--		
10/3/2023	109.87	78.83		
3/20/2024	109.29	79.41		
12/30/2024	109.33	79.37		
8/19/2025	110.09	78.61		



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-6	188.03	10/18/2011	109.55	78.48
		2/23/2012	108.01	80.02
		6/5/2012	108.05	79.98
		9/18/2012	108.06	79.97
		1/8/2013	108.07	79.96
		3/26/2013	108.09	79.94
		6/11/2013	108.25	79.78
		9/10/2013	108.43	79.60
		1/7/2014	108.70	79.33
		3/18/2014	108.70	79.33
		6/16/2014	108.85	79.18
MW-6	188.03	9/16/2014	108.99	79.04
		12/16/2014	109.10	78.93
		3/17/2015	109.14	78.89
		6/16/2015	109.23	78.80
		9/15/2015	109.20	78.83
		12/1/2015	109.30	78.73
		3/29/2016	109.34	78.69
		6/21/2016	108.58	79.45
		9/7/2016	109.47	78.56
		11/30/2016	109.51	78.52
		3/7/2017	109.47	78.56
		6/13/2017	109.48	78.55
		9/26/2017	109.64	78.39
		12/19/2017	109.64	78.39
		3/15/2018	109.66	78.37
		6/26/2018	109.99	78.04
		9/5/2018	109.75	78.28
		12/14/2018	109.64	78.39
		3/26/2019	109.65	78.38
6/18/2019	109.73	78.30		
9/11/2019	109.75	78.28		
11/5/2019	109.76	78.27		
3/4/2020	109.81	78.22		



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-6	188.03	5/6/2020	109.53	78.50
		8/20/2020	109.82	78.21
		10/20/2020	109.83	78.20
		3/1/2021	109.87	78.16
		9/27/2021	110.40	77.63
		3/3/2022	109.94	78.09
		9/20/2022	--	--
		3/2/2023	110.07	77.96
		10/3/2023	109.86	78.17
		3/20/2024	109.50	78.53
		12/30/2024	109.59	78.44
		8/19/2025	109.9	78.13
MW-7	189.93	10/18/2011	109.70	80.23
		2/23/2012	106.58	83.35
		6/5/2012	107.95	81.98
		9/18/2012	108.10	81.83
		1/8/2013	108.13	81.80
		3/26/2013	108.24	81.69
MW-7	189.93	6/11/2013	108.45	81.48
		9/10/2013	108.64	81.29
		1/7/2014	108.80	81.13
		3/18/2014	108.83	81.10
		6/16/2014	108.96	80.97
		9/25/2014	109.10	80.83
		12/16/2014	109.13	80.80
		3/17/2015	109.12	80.81
		6/16/2015	109.14	80.79
		9/15/2015	109.07	80.86
		12/1/2015	109.15	80.78
		3/29/2016	109.23	80.70
		6/21/2016	109.39	80.54
		9/7/2016	109.42	80.51
11/30/2016	109.51	80.42		
		3/7/2017	109.44	80.49



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-7	189.93	6/13/2017	109.38	80.55
		9/26/2017	109.52	80.41
		12/19/2017	109.52	80.41
		3/14/2018	109.49	80.44
		6/26/2018	109.57	80.36
		9/5/2018	109.55	80.38
		12/14/2018	109.50	80.43
		3/25/2019	109.48	80.45
		6/14/2019	109.50	80.43
		9/9/2019	109.48	80.45
		11/1/2019	109.53	80.40
		3/2/2020	109.53	80.40
		5/1/2020	109.53	80.40
		8/18/2020	109.52	80.41
		10/19/2020	109.51	80.42
		3/1/2021	109.60	80.33
		9/24/2021	109.90	80.03
		3/3/2022	109.63	80.30
		9/20/2022	--	--
		3/2/2023	109.68	80.25
10/3/2023	109.52	80.41		
3/20/2024	109.16	80.77		
8/19/2025	109.66	80.27		
MW-8	189.86	10/19/2011	--	--
		2/23/2012	108.71	81.15
		6/5/2012	108.65	81.21
		9/20/2012	108.64	81.22
		1/8/2013	108.56	81.30
		3/26/2013	108.63	81.23
		6/11/2013	108.85	81.01
		7/13/2013	Plugged and Abandoned	
MW-8R	Replacement Well Not Surveyed for Elevation	9/10/2013	108.39	--
		1/7/2014	108.65	--
		3/18/2014	108.62	--



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
MW-8R	Replacement Well Not Surveyed for Elevation	6/16/2014	108.77	--
		9/25/2014	108.91	--
		12/16/2014	108.95	--
		3/17/2015	109.00	--
		6/16/2015	109.12	--
		9/15/2015	109.01	--
		12/1/2015	109.18	--
		3/29/2016	109.12	--
		6/21/2016	109.32	--
		9/7/2016	109.31	--
		11/30/2016	109.26	--
		3/7/2017	109.31	--
		6/13/2017	109.27	--
		9/26/2017	109.40	--
		12/19/2017	109.39	--
		3/14/2018	109.34	--
		6/26/2018	109.42	--
		9/5/2018	109.48	--
		12/14/2018	109.37	--
		3/28/2019	109.38	--
		6/24/2019	109.38	--
		9/13/2019	109.91	--
		11/6/2019	109.86	--
		3/5/2020	109.52	--
		5/7/2020	109.62	--
		8/21/2020	109.63	--
		10/22/2020	109.43	--
		3/2/2021	109.63	--
9/24/2021	110.00	--		
3/3/2022	109.71	--		
9/20/2022	109.59	--		
3/2/2023	109.48	--		
10/3/2023	109.73	--		
3/20/2024	109.13	--		



TABLE 1 GROUNDWATER ELEVATIONS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet ^{**})	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet ^{**})
MW-8R	Replacement well Not Surveyed for Elevation	12/30/2024	109.00	--
		8/19/2025	109.55	--

Notes:

***:* elevations based on an arbitrary datum of 200 feet

BTOC: below top of casing

--: indicates no GWEL measured



TABLE 2 GROUNDWATER QUALITY MEASUREMENTS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico							
Well Identification	Date	Temperature (°C)	pH	TDS (mg/L)	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-1	3/17/2015	18.10	7.28	2,200	3,380	--	53.0
	6/16/2015	17.70	7.30	1,970	3,030	1.39	-12.4
	9/15/2015	16.12	7.13	2,212	3,403	1.09	50.2
	12/1/2015	16.63	7.72	2,361	3,632	1.08	-100.5
	3/29/2016	16.64	7.22	3,100	3,350	4.20	126.0
	6/21/2016	17.10	7.44	--	3,320	0.46	6.5
	9/7/2016	16.31	7.34	2,139	3,290	0.56	-66.0
	12/1/2016	12.71	7.55	--	2,989	5.29	23.5
	3/7/2017	15.36	7.55	2,377	3,657	1.25	-108.8
	6/13/2017	18.42	7.38	2,109	3,245	1.67	-103.7
	9/26/2017	21.00	7.05	--	2,844	--	--
	12/19/2017	13.89	7.37	--	3,232	--	--
	3/14/2018	17.90	7.41	--	3,141	0.28	3.5
	6/26/2018	21.15	7.37	--	3,101	0.29	23.1
	9/5/2018	20.93	7.64	--	2,913	0.03	44.9
	3/29/2019	12.10	7.75	1,520	3,040	--	-34.7
	6/24/2019	20.40	7.28	1,580	3,130	26.60*	-38.0
	9/13/2019	17.80	6.28	1,550	3,100	25.30*	-45.5
	11/6/2019	15.50	6.90	1,540	3,090	100.60*	-45.6
	3/5/2020	14.90	6.73	1,530	3,060	5.99	-37.5
	5/6/2020	19.80	6.63	1,560	3,130	2.33	-30.4
	8/20/2020	21.30	6.95	1,520	3,030	1.21	-31.6
	10/21/2020	17.90	6.75	1,380	2,770	2.59	-30.3
3/2/2021	16.60	6.94	1,400	2,810	0.58	-27.4	
9/24/2021	19.40	7.06	--	7,480*	--	--	
3/3/2022	16.90	6.96	--	2,590	--	--	
9/20/2022	18.00	7.06	1,230	2,460	--	--	
3/2/2023	14.00	7.39	1,150	2,370	--	--	
10/3/2023	17.88	7.74	2,290	3,523	1.80	113.1	
3/20/2024	21.31	8.08	2.25	3,460.8	2.05	251.1	
12/30/2024	13.83	8.380	2.230	3,462.20	2.540	-24.9	
8/19/2025	32.51	7.616	0.063	96.47	2.537	248.7	
MW-1 NP	8/19/2025	33.45	7.301	1.176	1,805	3.078	260.4
MW-2	3/17/2015	14.80	7.30	2,200	3,430	--	165.0
	6/16/2015	14.90	6.91	1,925	2,961	6.23	25.2
	9/15/2015	14.62	6.99	2,162	3,327	6.27	75.5
	12/1/2015	13.50	7.61	2,277	3,504	5.27	80.8
	3/29/2016	--	--	--	--	--	--
	6/21/2016	15.40	7.38	--	2,850	0.56	-121.6
	9/7/2016	13.96	6.98	2,064	3,175	6.37	60.7
	12/1/2016	13.33	7.92	--	2,932	7.31	29.7
	3/7/2017	12.71	7.30	2,320	3,570	3.81	-84.5
	6/13/2017	15.03	7.24	2,075	3,191	5.55	-12.2
	9/26/2017	15.67	6.83	--	2,795	--	--
	12/19/2017	11.60	7.05	--	3,176	--	--
	3/14/2018	14.81	7.14	--	3,135	4.53	70.3



TABLE 2 GROUNDWATER QUALITY MEASUREMENTS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico							
Well Identification	Date	Temperature (°C)	pH	TDS (mg/L)	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-2	6/26/2018	17.31	7.08	--	3,010	3.47	54.9
	9/5/2018	17.39	7.39	--	2,890	3.86	67.4
	3/27/2019	16.6	7.02	1,550	3,010	--	7.5
	6/18/2019	18.0	7.02	1,560	3,130	26.60*	55.4
	9/11/2019	17.6	6.21	1,550	3,100	42.80*	-23.2
	11/5/2019	15.2	6.39	1,560	3,120	46.00*	-19.0
	3/4/2020	15.6	6.41	1,580	3,140	6.950	-17.4
	5/7/2020	16.1	6.46	1,550	3,080	3.280	-19.9
	8/21/2020	18.1	6.87	1,540	3,090	2.500	-18.0
	10/22/2020	15.5	6.47	1,370	2,750	4.050	-17.2
8/19/2025	38.7	8.145	1.425	2,193	2.962	49.7	
MW-3	3/17/2015	15.10	7.45	1,900	3,040	--	-94.0
	6/16/2015	15.09	7.31	1,717	2,641	1.23	-123.5
	9/15/2015	15.03	7.30	1,912	2,941	1.39	-125.0
	12/1/2015	13.73	7.78	2,044	3,144	1.48	-164.2
	3/29/2016	15.82	7.34	1,900	2,940	5.66	-103.0
	6/21/2016	14.70	7.00	--	3,230	4.62	56.2
	9/7/2016	14.55	7.10	1,816	2,794	1.50	-102.7
	12/1/2016	14.91	7.74	--	2,556	1.97	-116.2
	3/7/2017	12.81	7.63	2,044	3,144	0.39	-192.6
	6/13/2017	14.77	7.58	1,819	2,801	0.42	-123.9
	9/26/2017	15.05	7.25	--	2,425	--	--
	12/19/2017	12.36	7.48	--	2,776	--	--
	3/14/2018	15.72	7.63	--	2,208	0.00	-139.6
	6/26/2018	18.48	7.63	--	2,589	0.22	-146.3
	9/5/2018	17.28	7.87	--	2,500	-0.07*	-124.3
	3/26/2019	15.80	7.35	1,320	2,640	0.00	-32.6
	6/17/2019	18.70	7.35	1,350	2,740	17.00*	-48.3
	9/10/2019	19.50	6.31	1,350	2,700	15.20*	-57.6
	11/4/2019	15.90	6.70	1,340	2,660	54.20*	-44.6
	3/3/2020	16.30	6.61	1,360	2,710	6.66	-33.6
	5/4/2020	18.30	6.72	1,330	2,620	1.92	-38.6
	8/19/2020	20.30	6.82	1,330	2,700	0.88	-34.4
	10/21/2020	15.80	6.73	1,170	2,340	3.47	-31.8
	3/1/2021	15.00	6.95	1,190	2,390	0.56	-33.6
9/24/2021	19.30	6.85	--	6,570	--	--	
3/3/2022	17.10	6.70	--	2,250	--	--	
9/20/2022	18.20	6.59	1,050	2,290	--	--	
3/2/2023	11.90	7.52	1,040	2,080	--	--	
10/3/2023	27.96	8.09	1,980	3,050	1.63	-83.4	
3/20/2024	21.58	8.21	0.36	569.55	2.26	-112.3	
8/19/2025	38.17	8.332	1.063	1,634	2.176	-77.0	
MW-4	3/17/2015	16.30	7.43	2,000	3,120	--	125.0
	6/16/2015	14.68	7.38	1,760	2,707	6.38	13.6
	9/15/2015	14.75	6.99	1,980	3,047	7.23	48.3
	12/1/2015	14.57	7.89	1,451	2,231	5.92	-12.2



TABLE 2 GROUNDWATER QUALITY MEASUREMENTS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico							
Well Identification	Date	Temperature (°C)	pH	TDS (mg/L)	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-4	3/29/2016	16.94	7.33	1,900	3,030	7.71	110.0
	6/21/2016	15.30	7.62	--	2,980	4.10	58.9
	9/7/2016	14.52	7.50	1,919	2,953	6.36	65.1
	12/2/2016	12.48	7.81	--	2,688	9.18	76.9
	3/7/2017	--	--	--	--	--	--
	9/26/2017	12.75	7.25	--	2,537	--	--
	12/19/2017	12.22	7.49	--	2,914	--	--
	3/14/2018	14.13	7.57	--	28	5.95	55.1
	6/26/2018	15.95	7.64	--	2,682	4.63	33.8
	9/5/2018	14.99	7.84	--	2,625	6.35	51.2
	3/25/2019	15.60	7.77	1,400	2,570	--	-33.4
	6/14/2019	15.70	7.35	1,410	2,790	60.10*	61.6
	9/9/2019	18.40	7.30	1,420	2,830	51.10*	-56.7
	11/1/2019	12.50	7.03	1,380	2,770	49.10*	-51.8
	3/2/2020	13.90	6.78	1,430	2,940	9.11	-42.6
	5/1/2020	18.40	6.47	1,410	2,790	5.62	-39.9
8/18/2020	19.80	6.63	1,450	2,990	2.52	-40.0	
10/19/2020	16.40	6.46	1,220	2,430	2.97	-32.2	
8/19/2025	39.03	8.031	2,084	3,205	5.971	140.3	
MW-5	3/17/2015	18.00	6.80	2,400	3,790	--	87.0
	6/16/2015	17.17	6.49	2,174	3,345	2.36	63.2
	9/15/2015	16.10	6.64	2,468	3,796	1.97	64.7
	12/1/2015	15.73	7.10	2,603	4,004	2.66	168.2
	3/29/2016	19.44	6.87	2,400	3,750	3.01	66.0
	6/21/2016	18.00	6.68	--	3,660	0.92	91.1
	9/7/2016	15.71	6.89	2,331	3,586	3.99	55.4
	12/1/2016	16.15	7.40	--	3,266	3.55	22.4
	3/7/2017	13.27	7.64	2,617	4,026	3.10	-64.7
	9/26/2017	14.09	6.85	--	3,030	--	--
	12/19/2017	12.49	6.85	--	3,513	--	--
	3/14/2018	15.02	6.92	--	3,476	1.37	70.5
	6/26/2018	16.65	7.05	--	3,124	1.64	47.6
	9/5/2018	16.10	7.47	--	3,186	3.88	63.6
	3/26/2019	12.80	7.29	1,490	2,780	--	-3.3
	6/17/2019	17.20	7.25	1,740	3,460	31.60*	-26.0
	9/10/2019	17.90	6.27	1,710	3,430	30.80*	-27.7
	11/4/2019	15.10	6.77	1,710	3,370	26.40*	103.1
	3/3/2020	16.20	6.36	1,690	3,360	9.83	-16.7
	5/4/2020	16.20	6.69	1,670	3,340	2.66	-23.2
8/19/2020	19.20	6.58	1,660	3,370	1.86	-13.4	
10/20/2020	17.10	6.51	1,480	3,030	1.78	-11.8	
8/19/2025	36.35	7.456	0.02	31.07	0.999	-85.9	
MW-6	3/17/2015	17.30	6.90	1,800	2,800	--	103.0
	6/16/2015	17.77	6.73	1,584	2,437	2.12	1.9
	9/15/2015	15.96	6.57	1,784	2,745	2.87	84.3
	12/1/2015	16.18	7.32	1,867	2,873	2.93	82.9
	3/29/2016	16.64	6.77	1,700	2,630	4.89	103.0



TABLE 2 GROUNDWATER QUALITY MEASUREMENTS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico							
Well Identification	Date	Temperature (°C)	pH	TDS (mg/L)	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-6	6/21/2016	17.00	7.11	--	27	3.86	59.8
	9/7/2016	16.48	7.00	1,676	2,578	1.87	8.7
	12/2/2016	12.07	7.29	--	2,409	4.10	50.8
	3/7/2017	14.16	7.10	1,936	2,979	2.01	-63.8
	6/13/2017	16.86	7.00	1,716	2,640	2.29	-36.8
	9/26/2017	16.61	6.51	--	2,287	--	--
	12/19/2017	13.49	6.85	--	2,640	--	--
	3/14/2018	16.20	6.94	--	2,581	2.36	68.9
	6/26/2018	22.89	6.91	--	2,494	2.20	52.8
	9/5/2018	20.66	7.18	--	2,381	2.13	65.0
	3/26/2019	16.40	6.95	1,270	2,540	--	-0.6
	6/18/2020	17.20	7.19	1,280	2,570	38.70*	-16.1
	9/11/2019	18.50	6.20	1,280	2,560	38.80*	-13.4
	11/5/2019	16.90	6.31	1,300	2,620	94.90*	-14.5
	3/4/2020	15.10	6.54	1,290	2,580	5.92	-8.7
5/6/2020	17.40	6.39	1,280	2,570	3.26	-5.6	
8/20/2020	18.50	6.67	1,240	2,600	2.35	-11.6	
10/20/2020	18.10	6.39	1,150	2,270	3.52	-6.3	
8/19/2025	38.36	8.028	1.603	2,466	4.704	123.4	
MW-6 NP	8/19/2025	37.36	7.449	0.952	1,465	4.088	37.3
MW-7	3/17/2015	17.40	7.64	2,600	4,100	--	118.0
	6/16/2015	17.05	8.28	2,366	3,639	3.73	-48.2
	9/15/2015	16.47	7.66	2,663	4,096	6.44	85.4
	12/1/2015	16.03	7.90	2,853	4,389	2.00	-65.0
	3/29/2016	18.42	7.45	2,600	4,050	7.12	108.0
	6/21/2016	16.40	7.50	--	3,990	5.73	58.1
	9/7/2016	16.04	7.54	2,571	3,970	6.15	59.2
	12/2/2016	14.19	7.57	--	3,604	5.91	47.7
	3/7/2017	13.80	7.59	2,853	4,390	8.58	-29.4
	6/13/2017	17.73	7.47	2,510	3,863	9.30	-2.2
	9/26/2017	16.71	7.07	--	3,337	--	--
	12/19/2017	13.35	7.33	--	3,799	--	--
	3/14/2018	16.21	7.26	--	3,674	8.57	71.9
	6/26/2018	18.13	7.20	--	3,596	8.44	56.5
	9/5/2018	21.46	7.59	--	3,438	6.08	65.5
	3/25/2019	16.20	7.37	1,770	3,560	--	-30.6
	6/14/2019	18.20	7.03	1,820	3,650	46.20*	-22.5
	9/9/2019	18.10	7.23	1,810	3,620	35.60*	-50.5
	11/1/2019	13.50	6.61	1,750	3,410	139.50*	-32.2
3/2/2020	14.50	6.61	1,760	3,500	8.71	-32.1	
5/1/2020	18.80	6.60	1,780	3,580	3.88	-25.3	
8/18/2020	20.30	6.99	1,800	3,510	2.35	-27.8	
10/19/2020	16.70	6.42	1,580	3,130	3.98	-22.5	
8/19/2025	34.66	7.524	0.014	22,130	2,718	170.2	
MW-8R	3/17/2015	19.30	6.96	2,100	3,310	--	30.0
	6/16/2015	17.82	7.07	1,970	3,033	0.48	-50.3



TABLE 2 GROUNDWATER QUALITY MEASUREMENTS San Juan 29-7 Unit 37 Hilcorp Energy Company Rio Arriba County, New Mexico							
Well Identification	Date	Temperature (°C)	pH	TDS (mg/L)	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-8R	9/15/2015	18.30	6.91	2,222	3,431	1.20	-10.7
	12/1/2015	16.75	7.41	2,341	3,595	1.08	-91.3
	3/29/2016	15.86	7.24	2,100	3,340	4.49	-56.0
	6/21/2016	18.20	7.15	--	3,230	0.18	-104.8
	9/7/2016	17.21	7.07	2,128	3,274	0.53	-81.1
	12/1/2016	13.01	7.10	--	2,930	2.36	39.6
	3/7/2017	14.89	7.40	2,368	3,644	2.40	-144.1
	6/13/2017	17.30	7.13	2,061	3,171	0.49	-103.0
	9/26/2017	19.77	6.97	--	2,860	--	--
	12/19/2017	14.97	7.11	--	3,176	--	--
	3/14/2018	19.03	7.09	--	3,127	0.04	-3.6
	6/26/2018	21.51	7.04	--	3,015	0.26	-13.9
	9/5/2018	21.78	7.32	--	2,872	0.05	8.3
	3/28/2019	17.00	7.32	1,560	3,070	--	-11.4
	6/24/2019	17.60	7.25	1,580	3,160	23.60*	-22.5
	9/13/2019	20.10	6.09	1,570	3,140	30.10*	-27.2
	11/6/2019	15.90	6.37	1,540	3,120	118.20*	-9.8
	3/5/2020	16.00	6.76	1,530	3,060	6.71	-32.1
	5/7/2020	20.04	6.51	1,610	3,240	--	-24.1
	8/21/2020	24.20	6.76	1,500	2,970	1.78	-14.3
	10/22/2020	15.90	6.76	1,430	2,840	4.04	-19.0
	3/2/2021	15.80	6.96	1,420	2,840	0.72	-13.3
	9/24/2021	18.40	7.12	--	7,760*	--	--
3/2/2022	17.30	6.85	--	2,690	--	--	
9/20/2022	23.50	6.80	1,200	2,400	--	--	
3/2/2023	13.00	7.44	1,210	2,430	--	--	
10/3/2023	26.41	7.88	2,090	3,217	1.63	127.2	
3/20/2024	21.12	7.75	1.68	2,594.6	1.63	-17.2	
12/30/2024	14.67	8.70	1.80	2,778.1	2.02	-51.1	
8/19/2025	33.78	7.685	1.726	2,660	2.078	171.9	

Notes:

°C: degrees Celcius

DO: dissolved oxygen

µS/cm: microsiemens per centimeter

mg/L: milligrams per liter

mV: millivolts

ORP: oxidation-reduction potential

TDS: total dissolved solids

--: data not collected

*: anomalous data

NP: Not Purged



TABLE 3
GROUNDWATER ANALYTICAL RESULTS
 San Juan 29-7 Unit 37
 Hilcorp Energy Company
 Rio Arriba County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Dissolved Manganese (mg/L)
NMWQCC Standards		0.005	1	0.7	0.62	NE	NE	0.2
MW-1	3/17/2011	0.066	0.39	0.011	0.084	1.5	0.28	2.77
	8/17/2011	0.0189	0.0068	< 0.001	0.0044	< 0.50	< 0.50	0.318
	10/18/2011	--	--	--	--	--	--	--
	2/23/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	6.40
	6/5/2012	< 0.001	0.002	< 0.001	< 0.003	--	--	5.15
	9/18/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	2.60
	1/8/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.10
	3/26/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.486
	6/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.520
	9/10/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.164
	1/7/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.132
	3/18/2014	0.0036	< 0.001	< 0.001	< 0.003	--	--	0.643
	6/16/2014	--	--	--	--	--	--	1.20
	9/25/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.57
	12/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.49
	3/17/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.60
	6/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.36
	9/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.52
	12/1/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.76
	3/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.86
	6/21/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.72
	9/7/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.38
	12/2/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	--
	3/7/2017	--	--	--	--	--	--	1.90
	6/13/2017	--	--	--	--	--	--	1.76
	9/26/2017	--	--	--	--	--	--	2.04
	12/19/2017	--	--	--	--	--	--	1.75
	3/14/2018	--	--	--	--	--	--	1.94
	6/26/2018	--	--	--	--	--	--	1.83
	9/5/2018	--	--	--	--	--	--	1.83
	12/14/2018	--	--	--	--	--	--	1.8
	3/29/2019	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.056
6/24/2019	--	--	--	--	--	--	2.00	
9/13/2019	--	--	--	--	--	--	1.800	
11/6/2019	--	--	--	--	--	--	0.608	
3/5/2020	--	--	--	--	--	--	1.28	
5/6/2020	--	--	--	--	--	--	1.11	
8/20/2020	--	--	--	--	--	--	1.57	
10/21/2020	--	--	--	--	--	--	0.625	
3/2/2021	--	--	--	--	--	--	1.02	
9/24/2021	--	--	--	--	--	--	1.5	
3/3/2022	--	--	--	--	--	--	1.8	
9/20/2022	--	--	--	--	--	--	2.0	
3/2/2023	--	--	--	--	--	--	1.7	
10/3/2023	--	--	--	--	--	--	0.24	
3/20/2024	--	--	--	--	--	--	2.3	
12/30/2024	--	--	--	--	--	--	1.6	
8/19/2025	< 0.001	< 0.001	< 0.001	< 0.0015	--	--	1.9	
MW-1 NP	8/19/2025	< 0.001	< 0.001	< 0.001	< 0.0015	--	--	0.44
MW-2	3/17/2011	< 0.001	< 0.001	< 0.001	< 0.001	< 0.1	< 0.11	0.334
	8/17/2011	< 0.001	< 0.001	< 0.001	< 0.003	< 0.50	< 0.50	0.179
	10/18/2011	--	--	--	--	--	--	--
	2/23/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0360
	6/5/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0078
	9/18/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0194
	1/8/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0057
	3/26/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0188
	6/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0086
	9/10/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	< 0.0050
	1/7/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0069
	3/18/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.281
	6/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.09
	9/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.783
	12/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.746
	3/17/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0195
	6/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0703
	9/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	< 0.005
	12/1/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0144
	3/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	< 0.005
6/21/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0099	
9/7/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0104	
12/2/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	< 0.005	



TABLE 3
GROUNDWATER ANALYTICAL RESULTS
 San Juan 29-7 Unit 37
 Hilcorp Energy Company
 Rio Arriba County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Dissolved Manganese (mg/L)
NMWWCC Standards		0.005	1	0.7	0.62	NE	NE	0.2
MW-2	3/7/2017	--	--	--	--	--	--	< 0.005
	6/13/2017	--	--	--	--	--	--	< 0.005
	9/26/2017	--	--	--	--	--	--	< 0.005
	12/19/2017	--	--	--	--	--	--	< 0.005
	3/14/2018	--	--	--	--	--	--	< 0.005
	6/26/2018	--	--	--	--	--	--	--
	9/5/2018	--	--	--	--	--	--	< 0.005
	12/14/2016	--	--	--	--	--	--	< 0.01
	3/29/2019	--	--	--	--	--	--	< 0.01
	6/18/2019	--	--	--	--	--	--	< 0.01
	9/11/2019	--	--	--	--	--	--	< 0.01
	11/5/2019	--	--	--	--	--	--	< 0.01
	3/4/2020	--	--	--	--	--	--	< 0.005
	5/7/2020	--	--	--	--	--	--	< 0.005
8/21/2020	--	--	--	--	--	--	< 0.005	
10/22/2020	--	--	--	--	--	--	< 0.005	
8/19/2025	< 0.001	< 0.001	< 0.001	< 0.0015	--	--	--	
MW-3	3/17/2011	< 0.001	0.013	< 0.001	0.0042	< 0.1	< 0.1	1.79
	8/17/2011	< 0.001	< 0.001	< 0.001	< 0.003	< 0.50	< 0.50	1.42
	10/18/2011	--	--	--	--	--	--	--
	2/23/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.60
	6/5/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.43
	9/18/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.24
	1/8/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.62
	3/26/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.83
	6/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.75
	9/10/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.7
	1/7/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.77
	3/18/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.81
	6/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	2
	9/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	2.29
	12/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	2.06
	3/17/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	2.06
	6/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.88
	9/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	2.1
	12/1/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	2.17
	3/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	2.14
	6/21/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.92
	9/7/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.88
	12/2/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.98
	3/7/2017	--	--	--	--	--	--	2.22
	6/13/2017	--	--	--	--	--	--	1.87
	9/26/2017	--	--	--	--	--	--	1.82
	12/19/2017	--	--	--	--	--	--	1.82
	3/14/2018	--	--	--	--	--	--	1.97
	6/26/2018	--	--	--	--	--	--	1.94
	9/5/2018	--	--	--	--	--	--	1.88
	12/14/2018	--	--	--	--	--	--	1.76
3/29/2019	--	--	--	--	--	--	1.75	
6/17/2019	--	--	--	--	--	--	1.74	
9/10/2019	--	--	--	--	--	--	1.74	
11/4/2019	--	--	--	--	--	--	1.74	
3/3/2020	--	--	--	--	--	--	1.84	
5/4/2020	--	--	--	--	--	--	1.64	
8/19/2020	--	--	--	--	--	--	1.72	
10/21/2020	--	--	--	--	--	--	1.69	
3/1/2021	--	--	--	--	--	--	1.64	
9/24/2021	--	--	--	--	--	--	1.9	
3/2/2022	--	--	--	--	--	--	1.7	
9/20/2022	--	--	--	--	--	--	1.6	
3/2/2023	--	--	--	--	--	--	1.8	
10/3/2023	--	--	--	--	--	--	1.7	
3/20/2024	--	--	--	--	--	--	2.1	
8/19/2025	< 0.001	< 0.001	< 0.001	< 0.0015	--	--	0.60	
MW-4	3/17/2011	< 0.001	< 0.001	< 0.001	< 0.001	< 0.1	0.14	0.022
	8/17/2011	< 0.001	< 0.001	< 0.001	< 0.003	< 0.50	< 0.50	0.0062
	10/18/2011	--	--	--	--	--	--	--
	2/23/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0170
	6/5/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0814
	9/18/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.1030
	1/8/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0289
3/26/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0605	



TABLE 3
GROUNDWATER ANALYTICAL RESULTS
 San Juan 29-7 Unit 37
 Hilcorp Energy Company
 Rio Arriba County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Dissolved Manganese (mg/L)
NMWQCC Standards		0.005	1	0.7	0.62	NE	NE	0.2
MW-4	6/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0484
	9/10/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0303
	1/7/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0265
	3/18/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0227
	6/18/2014	--	--	--	--	--	--	0.0080
	9/25/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0160
	12/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0155
	3/17/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0156
	6/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0226
	9/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0088
	12/1/2015	< 0.001	0.0023	< 0.001	< 0.003	--	--	0.0118
	3/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0134
	6/21/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0713
	9/7/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0138
	12/2/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	--
	3/7/2017	--	--	--	--	--	--	--
	6/13/2017	--	--	--	--	--	--	--
	9/26/2017	--	--	--	--	--	--	0.0538
	12/19/2017	--	--	--	--	--	--	0.1280
	3/14/2018	--	--	--	--	--	--	<0.005
	6/26/2018	--	--	--	--	--	--	--
	9/5/2018	--	--	--	--	--	--	0.0217
	12/14/2018	--	--	--	--	--	--	<0.010
	3/29/2019	--	--	--	--	--	--	<0.010
	6/14/2019	--	--	--	--	--	--	<0.010
9/9/2019	--	--	--	--	--	--	<0.010	
11/4/2019	--	--	--	--	--	--	<0.010	
3/2/2020	--	--	--	--	--	--	<0.005	
5/1/2020	--	--	--	--	--	--	<0.005	
8/18/2020	--	--	--	--	--	--	<0.005	
10/19/2020	--	--	--	--	--	--	<0.005	
8/19/2025	< 0.001	< 0.001	< 0.001	< 0.0015	--	--	--	
MW-5	10/18/2011	< 0.001	< 0.001	< 0.001	< 0.003	< 0.5	< 0.5	--
	2/23/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.10
	6/5/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.868
	9/18/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.791
	1/8/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.58
	3/26/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.356
	6/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.609
	9/10/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.368
	1/7/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.396
	3/18/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.606
	6/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.93
	9/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.433
	12/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0706
	3/17/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0433
	6/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0331
	9/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0215
	12/1/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0163
	3/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.128
	6/21/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0109
	9/7/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.235
	12/2/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.214
	3/7/2017	--	--	--	--	--	--	0.0405
	6/13/2017	--	--	--	--	--	--	--
	9/26/2017	--	--	--	--	--	--	1.54
	12/19/2017	--	--	--	--	--	--	0.182
3/14/2018	--	--	--	--	--	--	0.192	
6/26/2018	--	--	--	--	--	--	0.0054	
9/5/2018	--	--	--	--	--	--	0.02	
12/14/2018	--	--	--	--	--	--	<0.010	
3/29/2019	--	--	--	--	--	--	<0.010	
6/17/2019	--	--	--	--	--	--	<0.010	
9/10/2019	--	--	--	--	--	--	<0.010	
11/4/2019	--	--	--	--	--	--	<0.010	
3/3/2020	--	--	--	--	--	--	<0.005	
5/4/2020	--	--	--	--	--	--	<0.005	
8/19/2020	--	--	--	--	--	--	0.00942	
10/20/2020	--	--	--	--	--	--	0.0866	
8/19/2025	< 0.001	< 0.001	< 0.001	< 0.0015	--	--	--	
MW-6	10/18/2011	0.033	< 0.001	< 0.001	0.012	< 0.5	< 0.5	--
	2/23/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	<0.005



TABLE 3
GROUNDWATER ANALYTICAL RESULTS
 San Juan 29-7 Unit 37
 Hilcorp Energy Company
 Rio Arriba County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Dissolved Manganese (mg/L)
NMWQCC Standards		0.005	1	0.7	0.62	NE	NE	0.2
MW-6	6/5/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.600
	9/18/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	1.110
	1/8/2013	0.0012	< 0.001	< 0.001	< 0.003	--	--	0.158
	3/26/2013	0.0022	< 0.001	< 0.001	< 0.003	--	--	0.282
	6/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.328
	9/10/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.299
	1/7/2014	0.0026	< 0.001	< 0.001	0.0034	--	--	0.268
	3/18/2014	0.0012	< 0.001	< 0.001	< 0.003	--	--	0.246
	6/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.140
	9/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.115
	12/16/2014	0.0014	< 0.001	< 0.001	< 0.003	--	--	0.147
	3/17/2015	< 0.001	0.0018	< 0.001	< 0.003	--	--	0.114
	6/16/2015	< 0.001	0.002	< 0.001	0.0037	--	--	0.0917
	9/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0456
	12/1/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0396
	3/29/2016	0.0020	0.0034	0.0015	0.0048	--	--	0.0338
	6/21/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0819
	9/7/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.1070
	12/2/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	--
	3/7/2017	--	--	--	--	--	--	0.1290
	6/13/2017	--	--	--	--	--	--	0.0734
	9/26/2017	--	--	--	--	--	--	0.0787
	12/19/2017	--	--	--	--	--	--	0.0481
	3/14/2018	--	--	--	--	--	--	0.0459
	6/26/2018	--	--	--	--	--	--	--
	9/5/2018	--	--	--	--	--	--	0.024
	12/14/2018	--	--	--	--	--	--	<0.010
	3/29/2019	--	--	--	--	--	--	<0.010
	6/18/2019	--	--	--	--	--	--	<0.010
	9/11/2019	--	--	--	--	--	--	<0.010
11/5/2019	--	--	--	--	--	--	<0.010	
3/4/2020	--	--	--	--	--	--	<0.005	
5/6/2020	--	--	--	--	--	--	<0.005	
8/20/2020	--	--	--	--	--	--	<0.005	
10/20/2020	--	--	--	--	--	--	<0.005	
8/19/2025	< 0.001	< 0.001	< 0.001	< 0.0015	--	--	--	
MW-6 NP	8/19/2025	< 0.001	< 0.001	< 0.001	< 0.0015	--	--	--
MW-7	10/18/2011	< 0.001	< 0.001	< 0.001	< 0.003	< 0.5	< 0.5	--
	2/23/2012	< 0.001	0.0011	< 0.001	0.0034	--	--	< 0.005
	6/5/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.019
	9/18/2012	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.012
	1/8/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0093
	3/26/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	<0.005
	6/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0082
	9/10/2013	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.168
	1/7/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.452
	3/18/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.438
	6/16/2014	--	--	--	--	--	--	0.49
	9/25/2014	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.231
	12/16/2014	0.0013	0.0031	< 0.001	< 0.003	--	--	0.435
	3/17/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.321
	6/16/2015	0.0023	0.0071	< 0.001	0.0045	--	--	0.256
	9/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.227
	12/1/2015	0.0012	0.0053	< 0.001	< 0.003	--	--	0.108
	3/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.102
	6/21/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0552
	9/7/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	0.0387
	12/2/2016	< 0.001	< 0.001	< 0.001	< 0.003	--	--	--
	3/7/2017	--	--	--	--	--	--	0.0077
	6/13/2017	--	--	--	--	--	--	<0.005
	9/26/2017	--	--	--	--	--	--	0.2620
	12/19/2017	--	--	--	--	--	--	<0.0050
	3/14/2018	--	--	--	--	--	--	0.0056
	6/26/2018	--	--	--	--	--	--	<0.0050
	9/5/2018	--	--	--	--	--	--	<0.0050
	12/14/2018	--	--	--	--	--	--	<0.010
	3/29/2019	--	--	--	--	--	--	<0.010
6/14/2019	--	--	--	--	--	--	<0.010	
9/9/2019	--	--	--	--	--	--	<0.010	
11/1/2019	--	--	--	--	--	--	<0.010	
3/2/2020	--	--	--	--	--	--	<0.005	



**TABLE 3
GROUNDWATER ANALYTICAL RESULTS**

San Juan 29-7 Unit 37
Hilcorp Energy Company
Rio Arriba County, New Mexico

Well Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	Dissolved Manganese (mg/L)	
NMWQCC Standards		0.005	1	0.7	0.62	NE	NE	0.2	
MW-7	5/1/2020	--	--	--	--	--	--	<0.005	
	8/18/2020	--	--	--	--	--	--	<0.005	
	10/19/2020	--	--	--	--	--	--	<0.005	
	8/19/2025	< 0.001	< 0.001	< 0.001	< 0.0015	--	--	--	
MW-8	10/19/2011	0.15	1.24	0.070	1.43	7.1	< 0.5	--	
	2/23/2012	0.036	0.772	0.054	1.35	--	--	<0.005	
	6/5/2012	0.013	0.120	0.025	0.447	--	--	0.022	
	9/20/2012	0.0098	0.002	0.006	0.342	--	--	--	
	1/8/2013	0.0369	0.0199	0.0018	0.0488	--	--	--	
	3/26/2013	Not sampled due to damaged well casing.							
	6/11/2013	Not sampled due to damaged well casing.							
	7/13/2013	Plugged and Abandoned							
MW-8R	9/10/2013	0.0100	0.0171	0.0017	0.0615	--	--	0.395	
	1/7/2014	0.179	0.353	0.0105	0.69	--	--	0.255	
	3/18/2014	0.103	0.154	0.0076	0.164	--	--	0.106	
	6/16/2014	0.319	0.846	0.0305	0.505	--	--	1.5	
	9/25/2014	0.172	0.0022	< 0.001	0.0067	--	--	1.38	
	12/16/2014	0.187	0.301	0.0248	0.368	--	--	1.01	
	3/17/2015	0.262	0.0205	0.714	0.501	--	--	0.323	
	6/18/2015	0.191	0.418	0.0147	0.300	--	--	0.707	
	9/15/2015	0.451	1.04	0.0587	0.881	--	--	0.7	
	12/1/2015	0.412	0.873	0.0257	0.508	--	--	0.84	
	3/29/2016	0.173	0.313	0.0136	0.222	--	--	1.16	
	6/21/2016	0.193	0.586	0.0168	0.466	--	--	0.431	
	9/7/2016	0.27	0.901	0.0291	0.670	--	--	0.758	
	12/2/2016	0.162	0.122	< 0.005	0.246	--	--	0.488	
	3/7/2017	0.0186	<0.001	<0.001	<0.003	--	--	0.437	
	6/13/2017	0.0037	0.0047	<0.001	0.0089	--	--	0.396	
	9/26/2017	0.0032	0.0029	<0.001	0.0088	--	--	0.0218	
	12/19/2017	0.0014	0.0022	< 0.001	0.0059	--	--	0.432	
	3/14/2018	<0.001	0.0013	<0.001	<0.003	--	--	0.364	
	6/26/2018	<0.001	<0.001	<0.001	<0.003	--	--	0.434	
	9/5/2018	<0.001	<0.001	<0.001	<0.003	--	--	0.442	
	12/14/2018	<0.001	<0.001	<0.001	<0.003	--	--	0.238	
	3/29/2019	<0.001	<0.001	<0.001	<0.003	--	--	0.172	
	6/24/2019	--	--	--	--	--	--	0.427	
	9/13/2019	<0.001	<0.001	<0.001	<0.003	--	--	0.357	
	11/6/2019	<0.001	<0.001	<0.001	<0.003	--	--	0.0153	
	3/5/2020	--	--	--	--	--	--	1.98	
	5/7/2020	--	--	--	--	--	--	0.775	
	8/21/2020	--	--	--	--	--	--	0.0524	
	10/22/2020	--	--	--	--	--	--	0.710	
3/2/2021	--	--	--	--	--	--	0.622		
9/24/2021	--	--	--	--	--	--	0.89		
3/2/2022	--	--	--	--	--	--	0.31		
9/20/2022	--	--	--	--	--	--	0.60		
3/2/2023	--	--	--	--	--	--	0.52		
10/3/2023	--	--	--	--	--	--	0.43		
3/20/2024	--	--	--	--	--	--	0.65		
12/30/2024	--	--	--	--	--	--	0.61		
8/19/2025	<0.001	<0.001	<0.001	<0.0015	--	--	1.50		

Notes:

- mg/L: milligrams per liter
- NP: Not Purged
- NMWQCC: New Mexico Water Quality Control Commission
- : not analyzed
- <: indicates result less than the stated laboratory reporting limit (RL)

Cells shaded in gray indicate groundwater samples collected prior to CoolOx™ treatment

Concentrations in bold and shaded exceed the New Mexico Water Quality Control Commission Standards, 20.6.2 of the New Mexico Administrative Code



APPENDIX A

Laboratory Analytical Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/29/2025 1:49:48 PM

JOB DESCRIPTION

SJ 29-7 Unit 37

JOB NUMBER

885-31495-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.



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



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Authorized for release by
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(505)345-3975

Client: Hilcorp Energy
Project/Site: SJ 29-7 Unit 37

Laboratory Job ID: 885-31495-1

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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: SJ 29-7 Unit 37

Job ID: 885-31495-1

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: SJ 29-7 Unit 37

Job ID: 885-31495-1

Job ID: 885-31495-1

Eurofins Albuquerque

Job Narrative 885-31495-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/21/2025 7:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.9°C.

GC/MS VOA

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

Metals

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: SJ 29-7 Unit 37

Job ID: 885-31495-1

Client Sample ID: MW-1

Lab Sample ID: 885-31495-1

Date Collected: 08/19/25 10:30

Matrix: Water

Date Received: 08/21/25 07:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/26/25 09:02	1
Ethylbenzene	ND		1.0	ug/L			08/26/25 09:02	1
Toluene	ND		1.0	ug/L			08/26/25 09:02	1
Xylenes, Total	ND		1.5	ug/L			08/26/25 09:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		70 - 130		08/26/25 09:02	1
4-Bromofluorobenzene (Surr)	106		70 - 130		08/26/25 09:02	1
Dibromofluoromethane (Surr)	104		70 - 130		08/26/25 09:02	1
Toluene-d8 (Surr)	89		70 - 130		08/26/25 09:02	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.9		0.020	mg/L			08/26/25 09:51	10

Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 29-7 Unit 37

Job ID: 885-31495-1

Client Sample ID: MW-1 NP

Lab Sample ID: 885-31495-2

Date Collected: 08/19/25 09:25

Matrix: Water

Date Received: 08/21/25 07:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/26/25 09:30	1
Ethylbenzene	ND		1.0	ug/L			08/26/25 09:30	1
Toluene	ND		1.0	ug/L			08/26/25 09:30	1
Xylenes, Total	ND		1.5	ug/L			08/26/25 09:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		08/26/25 09:30	1
4-Bromofluorobenzene (Surr)	105		70 - 130		08/26/25 09:30	1
Dibromofluoromethane (Surr)	102		70 - 130		08/26/25 09:30	1
Toluene-d8 (Surr)	88		70 - 130		08/26/25 09:30	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.44		0.0020	mg/L			08/26/25 09:26	1

Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 29-7 Unit 37

Job ID: 885-31495-1

Client Sample ID: MW-2

Lab Sample ID: 885-31495-3

Date Collected: 08/19/25 16:20

Matrix: Water

Date Received: 08/21/25 07:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/26/25 09:58	1
Ethylbenzene	ND		1.0	ug/L			08/26/25 09:58	1
Toluene	ND		1.0	ug/L			08/26/25 09:58	1
Xylenes, Total	ND		1.5	ug/L			08/26/25 09:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130				08/26/25 09:58	1
4-Bromofluorobenzene (Surr)	105		70 - 130				08/26/25 09:58	1
Dibromofluoromethane (Surr)	102		70 - 130				08/26/25 09:58	1
Toluene-d8 (Surr)	89		70 - 130				08/26/25 09:58	1

Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 29-7 Unit 37

Job ID: 885-31495-1

Client Sample ID: MW-3

Lab Sample ID: 885-31495-4

Date Collected: 08/19/25 15:30

Matrix: Water

Date Received: 08/21/25 07:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/26/25 10:26	1
Ethylbenzene	ND		1.0	ug/L			08/26/25 10:26	1
Toluene	ND		1.0	ug/L			08/26/25 10:26	1
Xylenes, Total	ND		1.5	ug/L			08/26/25 10:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		08/26/25 10:26	1
4-Bromofluorobenzene (Surr)	105		70 - 130		08/26/25 10:26	1
Dibromofluoromethane (Surr)	102		70 - 130		08/26/25 10:26	1
Toluene-d8 (Surr)	89		70 - 130		08/26/25 10:26	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.60		0.0020	mg/L			08/26/25 09:28	1

Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 29-7 Unit 37

Job ID: 885-31495-1

Client Sample ID: MW-4

Lab Sample ID: 885-31495-5

Date Collected: 08/19/25 17:30

Matrix: Water

Date Received: 08/21/25 07:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/26/25 10:54	1
Ethylbenzene	ND		1.0	ug/L			08/26/25 10:54	1
Toluene	ND		1.0	ug/L			08/26/25 10:54	1
Xylenes, Total	ND		1.5	ug/L			08/26/25 10:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		70 - 130		08/26/25 10:54	1
4-Bromofluorobenzene (Surr)	105		70 - 130		08/26/25 10:54	1
Dibromofluoromethane (Surr)	103		70 - 130		08/26/25 10:54	1
Toluene-d8 (Surr)	90		70 - 130		08/26/25 10:54	1

Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 29-7 Unit 37

Job ID: 885-31495-1

Client Sample ID: MW-5

Lab Sample ID: 885-31495-6

Date Collected: 08/19/25 13:15

Matrix: Water

Date Received: 08/21/25 07:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/26/25 11:22	1
Ethylbenzene	ND		1.0	ug/L			08/26/25 11:22	1
Toluene	ND		1.0	ug/L			08/26/25 11:22	1
Xylenes, Total	ND		1.5	ug/L			08/26/25 11:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		08/26/25 11:22	1
4-Bromofluorobenzene (Surr)	104		70 - 130		08/26/25 11:22	1
Dibromofluoromethane (Surr)	104		70 - 130		08/26/25 11:22	1
Toluene-d8 (Surr)	90		70 - 130		08/26/25 11:22	1

Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 29-7 Unit 37

Job ID: 885-31495-1

Client Sample ID: MW-6

Lab Sample ID: 885-31495-7

Date Collected: 08/19/25 14:10

Matrix: Water

Date Received: 08/21/25 07:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/26/25 11:51	1
Ethylbenzene	ND		1.0	ug/L			08/26/25 11:51	1
Toluene	ND		1.0	ug/L			08/26/25 11:51	1
Xylenes, Total	ND		1.5	ug/L			08/26/25 11:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		70 - 130		08/26/25 11:51	1
4-Bromofluorobenzene (Surr)	105		70 - 130		08/26/25 11:51	1
Dibromofluoromethane (Surr)	104		70 - 130		08/26/25 11:51	1
Toluene-d8 (Surr)	88		70 - 130		08/26/25 11:51	1

Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 29-7 Unit 37

Job ID: 885-31495-1

Client Sample ID: MW-6 NP

Lab Sample ID: 885-31495-8

Date Collected: 08/19/25 13:35

Matrix: Water

Date Received: 08/21/25 07:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/26/25 12:19	1
Ethylbenzene	ND		1.0	ug/L			08/26/25 12:19	1
Toluene	ND		1.0	ug/L			08/26/25 12:19	1
Xylenes, Total	ND		1.5	ug/L			08/26/25 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		08/26/25 12:19	1
4-Bromofluorobenzene (Surr)	105		70 - 130		08/26/25 12:19	1
Dibromofluoromethane (Surr)	102		70 - 130		08/26/25 12:19	1
Toluene-d8 (Surr)	90		70 - 130		08/26/25 12:19	1

Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 29-7 Unit 37

Job ID: 885-31495-1

Client Sample ID: MW-7

Lab Sample ID: 885-31495-9

Date Collected: 08/19/25 12:15

Matrix: Water

Date Received: 08/21/25 07:20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/27/25 02:46	1
Ethylbenzene	ND		1.0	ug/L			08/27/25 02:46	1
Toluene	ND		1.0	ug/L			08/27/25 02:46	1
Xylenes, Total	ND		1.5	ug/L			08/27/25 02:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		08/27/25 02:46	1
4-Bromofluorobenzene (Surr)	87		70 - 130		08/27/25 02:46	1
Dibromofluoromethane (Surr)	88		70 - 130		08/27/25 02:46	1
Toluene-d8 (Surr)	84		70 - 130		08/27/25 02:46	1

Client Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 29-7 Unit 37

Job ID: 885-31495-1

Client Sample ID: MW-8R
 Date Collected: 08/19/25 11:20
 Date Received: 08/21/25 07:20

Lab Sample ID: 885-31495-10
 Matrix: Water

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	ug/L			08/27/25 03:11	1
Ethylbenzene	ND		1.0	ug/L			08/27/25 03:11	1
Toluene	ND		1.0	ug/L			08/27/25 03:11	1
Xylenes, Total	ND		1.5	ug/L			08/27/25 03:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130				08/27/25 03:11	1
4-Bromofluorobenzene (Surr)	88		70 - 130				08/27/25 03:11	1
Dibromofluoromethane (Surr)	86		70 - 130				08/27/25 03:11	1
Toluene-d8 (Surr)	83		70 - 130				08/27/25 03:11	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.5		0.020	mg/L			08/26/25 09:53	10

QC Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 29-7 Unit 37

Job ID: 885-31495-1

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

Lab Sample ID: MB 885-33165/5
 Matrix: Water
 Analysis Batch: 33165

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			08/26/25 01:58	1
Ethylbenzene	ND		1.0	ug/L			08/26/25 01:58	1
Toluene	ND		1.0	ug/L			08/26/25 01:58	1
Xylenes, Total	ND		1.5	ug/L			08/26/25 01:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		70 - 130		08/26/25 01:58	1
4-Bromofluorobenzene (Surr)	105		70 - 130		08/26/25 01:58	1
Dibromofluoromethane (Surr)	109		70 - 130		08/26/25 01:58	1
Toluene-d8 (Surr)	90		70 - 130		08/26/25 01:58	1

Lab Sample ID: LCS 885-33165/4
 Matrix: Water
 Analysis Batch: 33165

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	18.7		ug/L		94	70 - 130
Ethylbenzene	20.0	17.2		ug/L		86	70 - 130
m&p-Xylene	40.0	34.0		ug/L		85	70 - 130
o-Xylene	20.0	17.1		ug/L		85	70 - 130
Toluene	20.0	17.4		ug/L		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	118		70 - 130
4-Bromofluorobenzene (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
Toluene-d8 (Surr)	90		70 - 130

Lab Sample ID: MB 885-33325/4
 Matrix: Water
 Analysis Batch: 33325

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			08/26/25 16:57	1
Ethylbenzene	ND		1.0	ug/L			08/26/25 16:57	1
Toluene	ND		1.0	ug/L			08/26/25 16:57	1
Xylenes, Total	ND		1.5	ug/L			08/26/25 16:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		08/26/25 16:57	1
4-Bromofluorobenzene (Surr)	86		70 - 130		08/26/25 16:57	1
Dibromofluoromethane (Surr)	87		70 - 130		08/26/25 16:57	1
Toluene-d8 (Surr)	84		70 - 130		08/26/25 16:57	1

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QC Sample Results

Client: Hilcorp Energy
 Project/Site: SJ 29-7 Unit 37

Job ID: 885-31495-1

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

Lab Sample ID: LCS 885-33325/3
 Matrix: Water
 Analysis Batch: 33325

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	21.8		ug/L		109	70 - 130
Toluene	20.0	20.5		ug/L		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	87		70 - 130
Dibromofluoromethane (Surr)	89		70 - 130
Toluene-d8 (Surr)	83		70 - 130

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 885-33223/29
 Matrix: Water
 Analysis Batch: 33223

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.0020	mg/L			08/26/25 08:03	1

Lab Sample ID: LCS 885-33223/45
 Matrix: Water
 Analysis Batch: 33223

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.425		mg/L		85	85 - 115

Lab Sample ID: MRL 885-33223/13
 Matrix: Water
 Analysis Batch: 33223

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.00200	0.00202		mg/L		101	50 - 150

Lab Sample ID: MB 885-33186/5-A
 Matrix: Water
 Analysis Batch: 33223

Client Sample ID: Method Blank
 Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.0020	mg/L			08/26/25 09:22	1

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QC Association Summary

Client: Hilcorp Energy
 Project/Site: SJ 29-7 Unit 37

Job ID: 885-31495-1

GC/MS VOA

Analysis Batch: 33165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31495-1	MW-1	Total/NA	Water	8260B	
885-31495-2	MW-1 NP	Total/NA	Water	8260B	
885-31495-3	MW-2	Total/NA	Water	8260B	
885-31495-4	MW-3	Total/NA	Water	8260B	
885-31495-5	MW-4	Total/NA	Water	8260B	
885-31495-6	MW-5	Total/NA	Water	8260B	
885-31495-7	MW-6	Total/NA	Water	8260B	
885-31495-8	MW-6 NP	Total/NA	Water	8260B	
MB 885-33165/5	Method Blank	Total/NA	Water	8260B	
LCS 885-33165/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 33325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31495-9	MW-7	Total/NA	Water	8260B	
885-31495-10	MW-8R	Total/NA	Water	8260B	
MB 885-33325/4	Method Blank	Total/NA	Water	8260B	
LCS 885-33325/3	Lab Control Sample	Total/NA	Water	8260B	

Metals

Filtration Batch: 33186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31495-1	MW-1	Dissolved	Water	Filtration	
885-31495-2	MW-1 NP	Dissolved	Water	Filtration	
885-31495-4	MW-3	Dissolved	Water	Filtration	
885-31495-10	MW-8R	Dissolved	Water	Filtration	
MB 885-33186/5-A	Method Blank	Dissolved	Water	Filtration	

Analysis Batch: 33223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31495-1	MW-1	Dissolved	Water	200.7 Rev 4.4	33186
885-31495-2	MW-1 NP	Dissolved	Water	200.7 Rev 4.4	33186
885-31495-4	MW-3	Dissolved	Water	200.7 Rev 4.4	33186
885-31495-10	MW-8R	Dissolved	Water	200.7 Rev 4.4	33186
MB 885-33186/5-A	Method Blank	Dissolved	Water	200.7 Rev 4.4	33186
MB 885-33223/29	Method Blank	Total/NA	Water	200.7 Rev 4.4	
LCS 885-33223/45	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
MRL 885-33223/13	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: SJ 29-7 Unit 37

Job ID: 885-31495-1

Client Sample ID: MW-1

Lab Sample ID: 885-31495-1

Date Collected: 08/19/25 10:30

Matrix: Water

Date Received: 08/21/25 07:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	33165	RA	EET ALB	08/26/25 09:02
Dissolved	Filtration	Filtration			33186	TC	EET ALB	08/26/25 07:46
Dissolved	Analysis	200.7 Rev 4.4		10	33223	VP	EET ALB	08/26/25 09:51

Client Sample ID: MW-1 NP

Lab Sample ID: 885-31495-2

Date Collected: 08/19/25 09:25

Matrix: Water

Date Received: 08/21/25 07:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	33165	RA	EET ALB	08/26/25 09:30
Dissolved	Filtration	Filtration			33186	TC	EET ALB	08/26/25 07:46
Dissolved	Analysis	200.7 Rev 4.4		1	33223	VP	EET ALB	08/26/25 09:26

Client Sample ID: MW-2

Lab Sample ID: 885-31495-3

Date Collected: 08/19/25 16:20

Matrix: Water

Date Received: 08/21/25 07:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	33165	RA	EET ALB	08/26/25 09:58

Client Sample ID: MW-3

Lab Sample ID: 885-31495-4

Date Collected: 08/19/25 15:30

Matrix: Water

Date Received: 08/21/25 07:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	33165	RA	EET ALB	08/26/25 10:26
Dissolved	Filtration	Filtration			33186	TC	EET ALB	08/26/25 07:46
Dissolved	Analysis	200.7 Rev 4.4		1	33223	VP	EET ALB	08/26/25 09:28

Client Sample ID: MW-4

Lab Sample ID: 885-31495-5

Date Collected: 08/19/25 17:30

Matrix: Water

Date Received: 08/21/25 07:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	33165	RA	EET ALB	08/26/25 10:54

Client Sample ID: MW-5

Lab Sample ID: 885-31495-6

Date Collected: 08/19/25 13:15

Matrix: Water

Date Received: 08/21/25 07:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	33165	RA	EET ALB	08/26/25 11:22

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy
 Project/Site: SJ 29-7 Unit 37

Job ID: 885-31495-1

Client Sample ID: MW-6

Lab Sample ID: 885-31495-7

Date Collected: 08/19/25 14:10

Matrix: Water

Date Received: 08/21/25 07:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	33165	RA	EET ALB	08/26/25 11:51

Client Sample ID: MW-6 NP

Lab Sample ID: 885-31495-8

Date Collected: 08/19/25 13:35

Matrix: Water

Date Received: 08/21/25 07:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	33165	RA	EET ALB	08/26/25 12:19

Client Sample ID: MW-7

Lab Sample ID: 885-31495-9

Date Collected: 08/19/25 12:15

Matrix: Water

Date Received: 08/21/25 07:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	33325	CM	EET ALB	08/27/25 02:46

Client Sample ID: MW-8R

Lab Sample ID: 885-31495-10

Date Collected: 08/19/25 11:20

Matrix: Water

Date Received: 08/21/25 07:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	33325	CM	EET ALB	08/27/25 03:11
Dissolved	Filtration	Filtration			33186	TC	EET ALB	08/26/25 07:46
Dissolved	Analysis	200.7 Rev 4.4		10	33223	VP	EET ALB	08/26/25 09:53

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: SJ 29-7 Unit 37

Job ID: 885-31495-1

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>200.7 Rev 4.4</td> <td></td> <td>Water</td> <td>Manganese</td> </tr> <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	200.7 Rev 4.4		Water	Manganese	8260B		Water	Benzene	8260B		Water	Ethylbenzene	8260B		Water	Toluene	8260B		Water	Xylenes, Total
Analysis Method	Prep Method	Matrix	Analyte																								
200.7 Rev 4.4		Water	Manganese																								
8260B		Water	Benzene																								
8260B		Water	Ethylbenzene																								
8260B		Water	Toluene																								
8260B		Water	Xylenes, Total																								
Oregon	NELAP	NM100001	02-26-26																								

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- 10
- 11

Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-31495-1

Login Number: 31495

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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 568778

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 568778
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Report accepted for record. Submit a C-141N for all future sampling and monitoring activities.	4/6/2026