

February 14, 2025

New Mexico Oil Conservation Division

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

Re: 2024 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 2024 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 2024. 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 had achieved seven quarters with results below NMWQCC standards.

During sampling events in 2019, BTEX concentrations remained below NMWQCC standards in groundwater collected from MW-8R, therefore BTEX as a COC for groundwater in all wells at the Site was removed. 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. Additionally, based on historical sampling data, dissolved manganese had been below NMWQCC standards for eight or more consecutive quarters in wells MW-2, MW-4, MW-5, MW-6, and MW-7. Therefore, the NMOCD approved the discontinuation of sampling these monitoring wells for all future sampling events (NMOCD approval email dated December 28, 2021). Although sampling at these wells was discontinued, they will continue to be gauged for the development of potentiometric surface maps.

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 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 March 2024. 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 elevations measured in monitoring wells during the March 2024 sampling event are presented in Table 1 and were used to create a groundwater potentiometric surface map (Figure 3). The inferred groundwater flow direction is to the south.

GROUNDWATER SAMPLING

Groundwater sampling was conducted at monitoring wells MW-1, MW-3, and MW-8R in March 2024. The wells were purged and sampled using disposable bailers. Stagnant groundwater was removed during purging to verify the collected samples accurately represented aquifer conditions. Field measurements of groundwater quality parameters, including temperature, pH, TDS, and electrical conductivity, were collected during purging and are summarized in Table 2.

Following well purging, groundwater samples were collected and placed directly into laboratory-provided bottles and labeled with the date and time of collection, well designation, project name, sample collector's name, and parameters to be analyzed. Sample bottles were immediately sealed, packed on ice, and submitted to Eurofins Environmental Testing Laboratory (Eurofins) for analysis of dissolved manganese following United States Environmental Protection Agency (EPA) Method 200.7. Proper chain-of-custody procedures were followed documenting the date and time sampled, sample number, type of sample, sample collector's name, preservative used, analyses required, and sample collector's signature.

GROUNDWATER ANALYTICAL RESULTS

During the March 2024 groundwater sampling event, dissolved manganese concentrations exceeded the NMWQCC standard in wells MW-1, MW-3, and MW-8R. Dissolved manganese concentrations ranged from 0.65 mg/L in well MW-8R to 2.3 mg/L in well MW-1. A summary of manganese 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 2021) range from 1.68 mg/L to 2.02 mg/L, whereas average dissolved oxygen concentrations in all other on-Site wells range from 2.97 mg/L to 6.06 mg/L. Additionally, the oxidation-reduction potential (ORP) in wells MW-1, MW-3, and MW-8R range from -17.3 millivolts (mV) to -84.3 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 18.0 mV to 35.8 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 increases, groundwater conditions will become increasingly aerobic. As this happens, dissolved manganese has the ability to precipitate out of solution leading to decreased concentrations in groundwater. Because there are no potential receptors downgradient of the Site (closest water well SJ-03390, is located 1,900 feet southeast and cross gradient from the Site 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



achieve the NMWQCC standard. At that time, Hilcorp will begin quarterly sampling until eight consecutive quarters indicate that manganese concentrations are below NMWQCC standards.

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

Sincerely,

Ensolum, LLC

Wer Winhut

Wes Weichert, PG Project Geologist (816) 266-8732 wweichert@ensolum.com Stuart Hyde, PG Senior Geologist (970) 903-1607 shyde@ensolum.com

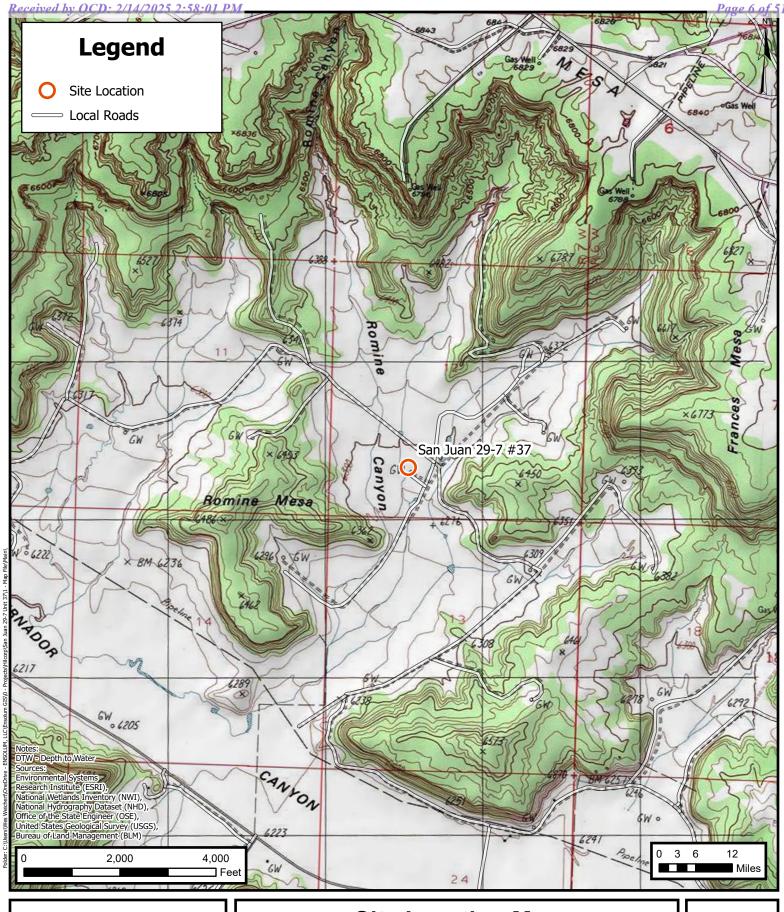
Attachments:

Figure 1	Site Location Map
Figure 2	Site Map
Figure 3	March 2024 Groundwater Elevation Map
Figure 4	2024 Groundwater Analytical Results
Table 1	Groundwater Elevations
Table 2	Groundwater Quality Measurements
Table 3	Groundwater Analytical Results
Appendix A	Laboratory Analytical Reports





FIGURES

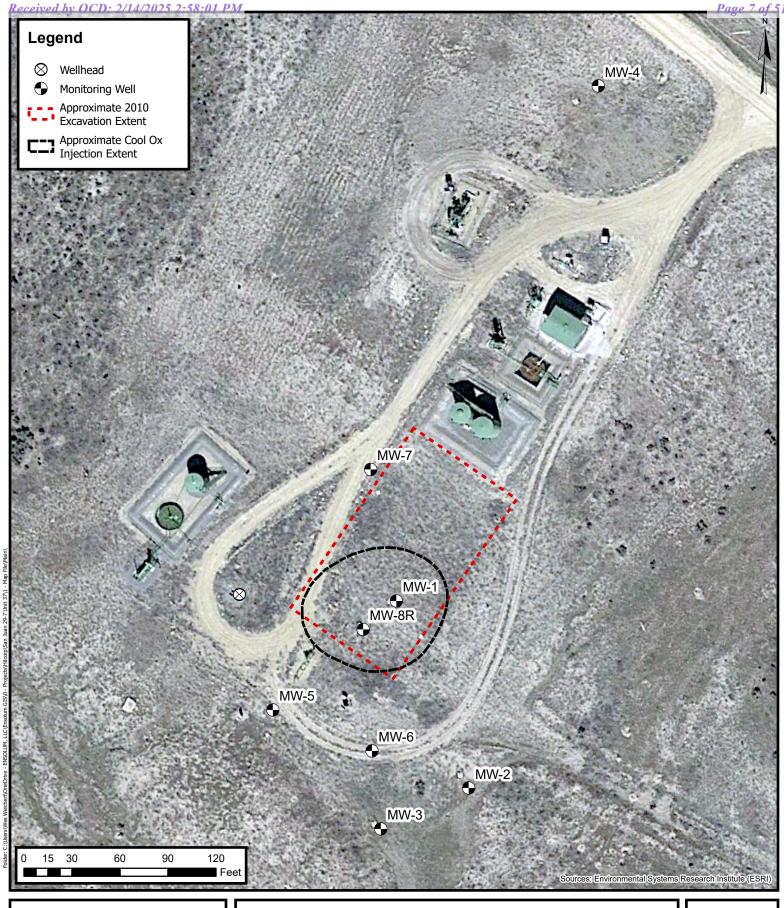




Site Location Map

Hilcorp Energy Company San Juan 29-7 #37 36.73580, -107.52562 Rio Arriba County, New Mexico FIGURE 1

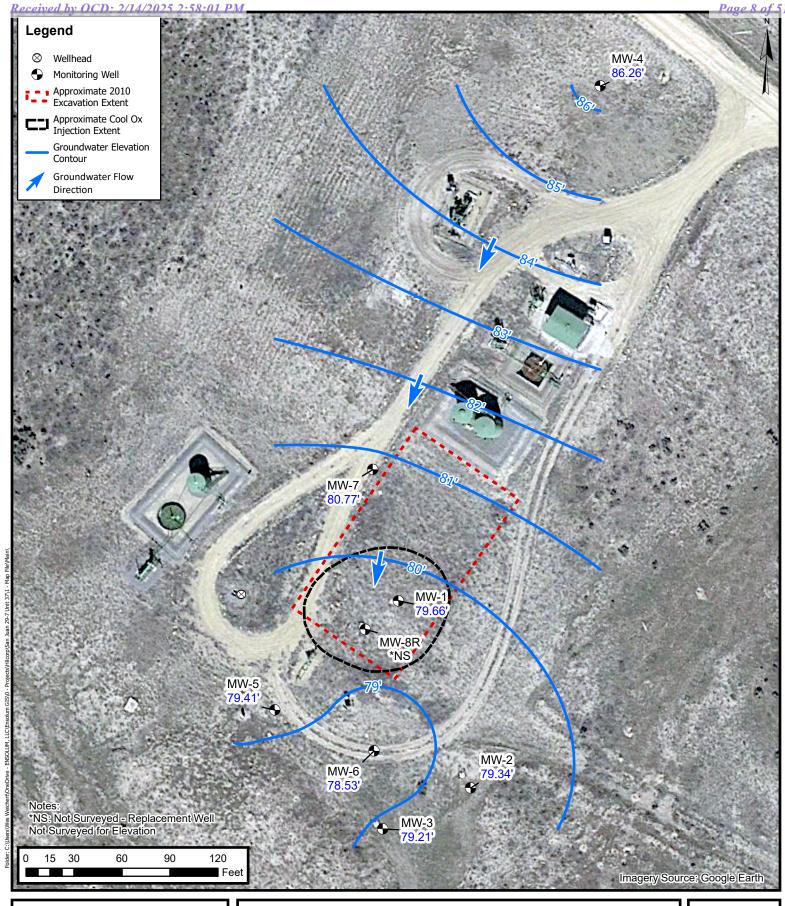
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Site Map

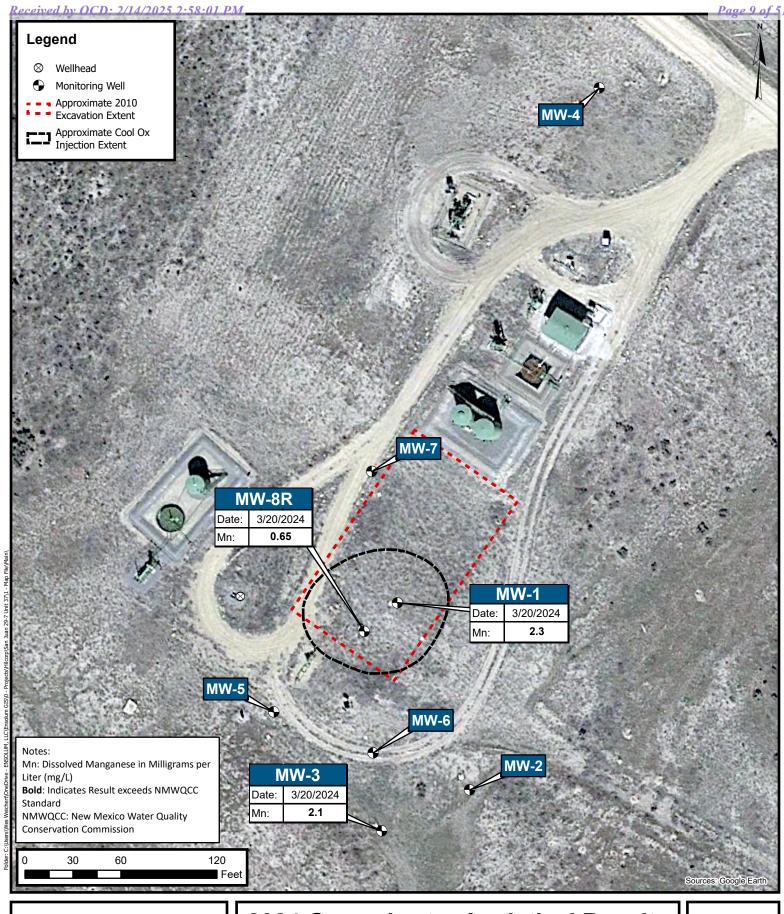
Hilcorp Energy Company San Juan 29-7 #37 36.73580, -107.52562 Rio Arriba County, New Mexico FIGURE 2





Groundwater Elevation Contour Map March 2024

Hilcorp Energy Company San Juan 29-7 #37 36.73580, -107.52562 Rio Arriba County, New Mexico FIGURE 3





2024 Groundwater Analytical Results

Hilcorp Energy Company San Juan 29-7 #37 36.73580, -107.52562 Rio Arriba County, New Mexico FIGURE 4



TABLES



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

	Rio Arriba County, New Mexico					
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)		
		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		
	189.24	6/16/2015	109.68	79.56		
MW-1		9/15/2015	109.62	79.62		
IVI VV - I	109.24	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		
		11/6/2019	110.05	79.19		
		3/5/2020	110.16	79.08		

Ensolum 1 of 11



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

	Rio Arriba County, New Mexico					
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)		
		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		
MW-1	189.24	9/24/2021	110.50	78.74		
IVI VV - I	109.24	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		
		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		
MW-2	189.60	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		
		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		

Ensolum 2 of 11



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

	Rio Arriba County, New Mexico					
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)		
		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		
MW-2	189.60	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		
		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		
		1/8/2013	109.28	79.85		
MW-3	189.13	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		

Ensolum 3 of 11



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

	Top of Casing	Tiba County, New 1		Groundwater
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Elevation (feet**)
		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
	189.13	3/14/2018	110.35	78.78
		6/26/2018	110.40	78.73
		9/5/2018	110.55	78.58
MW-3		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
		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
		3/17/2011	111.11	86.49
MW-4	197.60	8/17/2011	111.10	86.50
	.51.00	10/18/2011	111.16	86.44
		2/23/2012	111.14	86.46

Ensolum 4 of 11



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

Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
		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
MW-4	197.60	9/7/2016	111.33	86.27
111111111111111111111111111111111111111	107.00	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

Ensolum 5 of 11



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

	Rio Arriba County, New Mexico					
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)		
		9/24/2021	112.70	84.90		
		3/3/2022	112.06	85.54		
MW-4	197.60	9/20/2022				
IVI VV-4	197.00	3/2/2023	112.14	85.46		
		10/3/2023	111.79	85.81		
		3/20/2024	111.34	86.26		
		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		
		12/16/2014	109.22	79.48		
		3/17/2015	109.25	79.45		
MW-5	188.70	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		

Ensolum 6 of 11



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

Rio Arriba County, New Mexico				
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)
		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
MW-5	188.70	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
		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
MW-6	188.03	6/16/2014	108.85	79.18
		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

Ensolum 7 of 11



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

Rio Arriba County, New Mexico					
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)	
		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	
MW-6	188.03	11/5/2019	109.76	78.27	
IVI VV-O	100.03	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	
		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	
MW-7	189.93	3/26/2013	108.24	81.69	
101 0 4 - 1	100.00	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	

Ensolum 8 of 11



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

Rio Arriba County, New Mexico					
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)	
		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	
	189.93	9/26/2017	109.52	80.41	
		12/19/2017	109.52	80.41	
MW-7		3/14/2018	109.49	80.44	
		6/26/2018	109.57	80.36	
		9/5/2018	109.55	80.38	
IVI VV-7	109.93	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	

Ensolum 9 of 11



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

Rio Arriba County, New Mexico					
Well Identification	Top of Casing Elevation (feet**)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet**)	
		10/19/2011			
		2/23/2012	108.71	81.15	
		6/5/2012	108.65	81.21	
MW-8	189.86	9/20/2012	108.64	81.22	
INI AA-O	109.00	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	
		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		
	Replacement Well	9/7/2016	109.31		
MW-8R	Not Surveyed for Elevation	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		

Ensolum 10 of 11



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**)
		5/7/2020	109.62	
		8/21/2020	109.63	
	Replacement Well Not Surveyed for Elevation	10/22/2020	109.43	
		3/2/2021	109.63	
MW-8R		9/24/2021	110.00	
IVIVV-OR		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	

Notes:

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

BTOC: below top of casing

--: indicates no GWEL measured

Ensolum 11 of 11



TABLE 2

GROUNDWATER QUALITY MEASUREMENTS

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

Hilcorp Energy Company Rio Arriba County, New Mexico							
Well Identification	Date	Temperature (°C)	рН	TDS (mg/L)	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
	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
MW-1	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
	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
MW-2	6/13/2017	15.03	7.24	2,075	3,191	5.55	-12.2
	9/26/2017	15.67	6.83		2,795		-12.2
ŀ	12/19/2017	11.60	7.05		3,176		
ŀ	3/14/2018	14.81	7.14		3,135	4.53	70.3
ŀ	6/26/2018	17.31	7.14		3,010	3.47	54.9
ŀ	9/5/2018	17.39	7.08		2,890	3.47	67.4
ŀ	3/27/2019	16.60	7.02	1,550	3,010	J.00 	7.5
-		1			1		+
-	6/18/2019	18.00	7.02	1,560	3,130	26.60*	55.4
	9/11/2019	17.60	6.21	1,550	3,100	42.80*	-23.2
	11/5/2019	15.20	6.39	1,560	3,120	46.00*	-19.0

Ensolum 1 of 5



TABLE 2 GROUNDWATER QUALITY MEASUREMENTS

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

Hilcorp Energy Company Rio Arriba County, New Mexico							
Well Identification	Date	Temperature (°C)	рН	TDS (mg/L)	Conductivity (μS/cm)	DO (mg/L)	ORP (mV)
	3/4/2020	15.60	6.41	1,580	3,140	6.95	-17.4
MW-2	5/7/2020	16.10	6.46	1,550	3,080	3.28	-19.9
	8/21/2020	18.10	6.87	1,540	3,090	2.50	-18.0
	10/22/2020	15.50	6.47	1,370	2,750	4.05	-17.2
	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
MW-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
	3/17/2015	16.30	7.43	2,000	3,120		125.0
<u> </u>	6/16/2015	14.68	7.43	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	14.73	7.89	1,451	2,231	5.92	-12.2
-	3/29/2016	16.94	7.33	1,451	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
MW-4		+ +			1		
	12/2/2016 3/7/2017	12.48	7.81		2,688	9.18	76.9
-		12.75	7.25		2 537		
<u> </u>	9/26/2017	12.75	7.25		2,537		
<u> </u>	12/19/2017	12.22	7.49		2,914	 F 0F	 EE 1
	3/14/2018	14.13	7.57		28	5.95	55.1
<u> </u>	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

Ensolum 2 of 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)	рН	TDS (mg/L)	Conductivity (μS/cm)	DO (mg/L)	ORP (mV)
	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
MW-4	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
	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		-
MW-5	12/19/2017	12.49	6.85		3,513		-
IVIVV-5	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
	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
MINAL C	6/13/2017	16.86	7.00	1,716	2,640	2.29	-36.8
MW-6	9/26/2017	16.61	6.51		2,287		-
	12/19/2017	13.49	6.85		2,640		-
ļ	3/14/2018	16.20	6.94		2,581	2.36	68.9
ļ	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
ļ	3/26/2019	16.40	6.95	1,270	2,540		-0.6
ļ	6/18/2020	17.20	7.19	1,280	2,570	38.70*	-16.1
ļ	9/11/2019	18.50	6.20	1,280	2,560	38.80*	-13.4
ļ	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

Ensolum 3 of 5



TABLE 2

GROUNDWATER QUALITY MEASUREMENTS

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

Rio Arriba County, New Mexico							
Vell Identification	Date	Temperature (°C)	рН	TDS (mg/L)	Conductivity (μS/cm)	DO (mg/L)	ORP (mV)
	5/6/2020	17.40	6.39	1,280	2,570	3.26	-5.6
MW-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
	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		
MW-7	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
ŀ	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
F	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
	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	7.13	2,128	3,274	0.53	-81.1
F	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	1	6.97				-103.0
MW-8R	12/19/2017	19.77 14.97	7.11		2,860 3,176		
-	3/14/2018	1	7.11			0.04	-3.6
F		19.03			3,127		
-	6/26/2018	21.51	7.04		3,015	0.26	-13.9
F	9/5/2018	21.78	7.32	1 560	2,872	0.05	8.3
F	3/28/2019	17.00	7.32	1,560	3,070		-11.4
<u> </u>	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
<u> </u>	11/6/2019	15.90	6.37	1,540	3,120	118.20*	-9.8
L	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
L	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

Ensolum 4 of 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)	рН	TDS (mg/L)	Conductivity (μS/cm)	DO (mg/L)	ORP (mV)
	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	-	
MW-8R	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

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

Ensolum 5 of 5



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

Rio Arriba County, New Mexico			
Sample Date	Dissolved Manganese (mg/L)		
	0.2		
3/17/2011	2.77		
8/17/2011	0.318		
10/18/2011			
2/23/2012	6.40		
6/5/2012	5.15		
9/18/2012	2.60		
1/8/2013	1.10		
3/26/2013	0.486		
6/11/2013	0.520		
9/10/2013	0.164		
1/7/2014	0.132		
3/18/2014	0.643		
6/16/2014	1.20		
9/25/2014	1.57		
12/16/2014	1.49		
3/17/2015	1.60		
6/16/2015	1.36		
9/15/2015	1.52		
12/1/2015	1.76		
3/29/2016	1.86		
6/21/2016	1.72		
9/7/2016	1.38		
12/2/2016			
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	0.056		
6/24/2019	2.00		
	1.800		
	0.608		
	1.28		
	3/17/2011 8/17/2011 10/18/2011 2/23/2012 6/5/2012 9/18/2012 1/8/2013 3/26/2013 6/11/2013 9/10/2013 1/7/2014 3/18/2014 6/16/2014 9/25/2014 12/16/2014 3/17/2015 6/16/2015 9/15/2015 12/1/2015 3/29/2016 6/21/2016 3/7/2017 6/13/2017 6/13/2017 12/19/2017 3/14/2018 6/26/2018 9/5/2018 12/14/2018 3/29/2019		

Ensolum 1 of 10



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

Well Identification	Sample Date	Dissolved Manganese (mg/L)
NMWQCC Standards		0.2
	5/6/2020	1.11
	8/20/2020	1.57
	10/21/2020	0.625
	3/2/2021	1.02
MW-1	9/24/2021	1.5
IVIVV-1	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
	3/17/2011	0.334
	8/17/2011	0.179
	10/18/2011	
	2/23/2012	0.0360
	6/5/2012	0.0078
	9/18/2012	0.0194
	1/8/2013	0.0057
	3/26/2013	0.0188
	6/11/2013	0.0086
	9/10/2013	< 0.0050
	1/7/2014	0.0069
MW-2	3/18/2014	0.281
IVI VV-∠	6/16/2014	0.09
	9/16/2014	0.783
	12/16/2014	0.746
	3/17/2015	0.0195
	6/16/2015	0.0703
	9/15/2015	< 0.005
	12/1/2015	0.0144
	3/29/2016	< 0.005
	6/21/2016	0.0099
	9/7/2016	0.0104
	12/2/2016	< 0.005
F	3/7/2017	< 0.005

Ensolum 2 of 10



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

Rio Arriba County, New Mexico			
Well Identification	Sample Date	Dissolved Manganese (mg/L)	
NMWQCC Standards		0.2	
	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	
MW-2	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	
	3/17/2011	1.79	
	8/17/2011	1.42	
	10/18/2011		
	2/23/2012	1.60	
	6/5/2012	1.43	
	9/18/2012	1.24	
Γ	1/8/2013	1.62	
Ī	3/26/2013	1.83	
Ī	6/11/2013	1.75	
Ī	9/10/2013	1.7	
MW-3	1/7/2014	1.77	
Ī	3/18/2014	1.81	
Γ	6/16/2014	2	
Ī	9/16/2014	2.29	
Γ	12/16/2014	2.06	
Ī	3/17/2015	2.06	
Ī	6/16/2015	1.88	
Ī	9/15/2015	2.1	
Ī	12/1/2015	2.17	
Ī	3/29/2016	2.14	
Γ	6/21/2016	1.92	

Ensolum 3 of 10



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

	Rio Arriba County, New Mexico			
Well Identification	Sample Date	Dissolved Manganese (mg/L)		
NMWQCC Standards		0.2		
	9/7/2016	1.88		
	12/2/2016	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		
MW-3	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		
ļ	3/20/2024	2.1		
	3/17/2011	0.022		
Ţ	8/17/2011	0.0062		
	10/18/2011			
ļ	2/23/2012	0.0170		
Ī	6/5/2012	0.0814		
MW-4	9/18/2012	0.1030		
ļ	1/8/2013	0.0289		
ļ	3/26/2013	0.0605		
	6/11/2013	0.0484		
	9/10/2013	0.0303		
	1/7/2014	0.0265		

Ensolum 4 of 10



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

Well Identification	Sample Date	Dissolved Manganes (mg/L)
// // // // // // // // // // // // //		0.2
	3/18/2014	0.0227
	6/16/2014	0.0080
	9/25/2014	0.0160
	12/16/2014	0.0155
	3/17/2015	0.0156
	6/16/2015	0.0226
	9/15/2015	0.0088
	12/1/2015	0.0118
	3/29/2016	0.0134
	6/21/2016	0.0713
Γ	9/7/2016	0.0138
	12/2/2016	
Ī	3/7/2017	
MW-4	6/13/2017	
IVIVV-4	9/26/2017	0.0538
Ī	12/19/2017	0.1280
Γ	3/14/2018	<0.005
Ī	6/26/2018	
Ī	9/5/2018	0.0217
Ī	12/14/2018	<0.010
Ī	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
	10/18/2011	
	2/23/2012	1.10
	6/5/2012	0.868
BANA/ -	9/18/2012	0.791
MW-5	1/8/2013	0.58
	3/26/2013	0.356
ļ	6/11/2013	0.609
	9/10/2013	0.368

Ensolum 5 of 10



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

Ric	Hilcorp Energy Company Rio Arriba County, New Mexico			
Well Identification	Sample Date	Dissolved Manganese (mg/L)		
NMWQCC Standards		0.2		
	1/7/2014	0.396		
	3/18/2014	0.606		
Ī	6/16/2014	0.93		
	9/16/2014	0.433		
Ī	12/16/2014	0.0706		
	3/17/2015	0.0433		
Ţ	6/16/2015	0.0331		
Ī	9/15/2015	0.0215		
	12/1/2015	0.0163		
	3/29/2016	0.128		
	6/21/2016	0.0109		
Ī	9/7/2016	0.235		
	12/2/2016	0.214		
	3/7/2017	0.0405		
MW-5	6/13/2017			
Ī	9/26/2017	1.54		
Ī	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		
Ţ	9/10/2019	<0.010		
	11/4/2019	<0.010		
Ī	3/3/2020	<0.005		
Ī	5/4/2020	<0.005		
Ī	8/19/2020	0.00942		
	10/20/2020	0.0866		
	10/18/2011			
Ī	2/23/2012	<0.005		
Ī	6/5/2012	1.600		
MW-6	9/18/2012	1.110		
Ī	1/8/2013	0.158		
Ī	3/26/2013	0.282		
	6/11/2013	0.328		

Ensolum 6 of 10



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

Ric	Arriba County, New Me	exico
Well Identification	Sample Date	Dissolved Manganese (mg/L)
MWQCC Standards		0.2
	9/10/2013	0.299
	1/7/2014	0.268
	3/18/2014	0.246
	6/16/2014	0.140
	9/16/2014	0.115
	12/16/2014	0.147
	3/17/2015	0.114
	6/16/2015	0.0917
	9/15/2015	0.0456
	12/1/2015	0.0396
	3/29/2016	0.0338
	6/21/2016	0.0819
	9/7/2016	0.1070
	12/2/2016	-
MW-6	3/7/2017	0.1290
IVI VV -O	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
	10/18/2011	
	2/23/2012	< 0.005
	6/5/2012	0.019
MW-7	9/18/2012	0.012
	1/8/2013	0.0093
	3/26/2013	<0.005
	6/11/2013	0.0082

Ensolum 7 of 10



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

THE Parties County, New Mexico			
Well Identification	Sample Date	Dissolved Manganese (mg/L)	
NMWQCC Standards		0.2	
	9/10/2013	0.168	
	1/7/2014	0.452	
	3/18/2014	0.438	
	6/16/2014	0.49	
	9/25/2014	0.231	
	12/16/2014	0.435	
	3/17/2015	0.321	
	6/16/2015	0.256	
	9/15/2015	0.227	
	12/1/2015	0.108	
	3/29/2016	0.102	
	6/21/2016	0.0552	
	9/7/2016	0.0387	
	12/2/2016		
MW-7	3/7/2017	0.0077	
IVIVV-7	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	
Ţ	9/9/2019	<0.010	
	11/1/2019	<0.010	
	3/2/2020	<0.005	
	5/1/2020	< 0.005	
	8/18/2020	<0.005	
	10/19/2020	< 0.005	

Ensolum 8 of 10



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

Rio Arriba County, New Mexico			
Well Identification	Sample Date	Dissolved Manganese (mg/L)	
NMWQCC Standards		0.2	
	10/19/2011		
Ī	2/23/2012	<0.005	
	6/5/2012	0.022	
M/A/ 0	9/20/2012		
MW-8	1/8/2013		
	3/26/2013		
Γ	6/11/2013		
	7/13/2013		
	9/10/2013	0.395	
	1/7/2014	0.255	
Γ	3/18/2014	0.106	
Γ	6/16/2014	1.5	
	9/25/2014	1.38	
	12/16/2014	1.01	
	3/17/2015	0.323	
	6/16/2015	0.707	
	9/15/2015	0.7	
	12/1/2015	0.84	
	3/29/2016	1.16	
	6/21/2016	0.431	
	9/7/2016	0.758	
Ţ	12/2/2016	0.488	
MW-8R	3/7/2017	0.437	
	6/13/2017	0.396	
	9/26/2017	0.0218	
Ī	12/19/2017	0.432	
Ī	3/14/2018	0.364	
	6/26/2018	0.434	
	9/5/2018	0.442	
Ī	12/14/2018	0.238	
	3/29/2019	0.172	
Ī	6/24/2019	0.427	
Ī	9/13/2019	0.357	
Ţ	11/6/2019	0.0153	
Ţ	3/5/2020	1.98	
	5/7/2020	0.775	
	8/21/2020	0.0524	

Ensolum 9 of 10



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

Well Identification	Sample Date	Dissolved Manganese (mg/L)
NMWQCC Standards		0.2
MW-8R	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

Notes:

mg/L: milligrams per liter

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 $^{\mathsf{TM}}$ treatment

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

Ensolum 10 of 10



APPENDIX A

Laboratory Analytical Reports

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499

Generated 3/27/2024 4:46:25 PM

JOB DESCRIPTION

San Juan 29-7 unit 37 San Juan 29-7 unit 37

JOB NUMBER

885-1623-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

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 Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com (505)345-3975

3/27/2024

Client: Hilcorp Energy Laboratory Job ID: 885-1623-1 Project/Site: San Juan 29-7 unit 37 SDG: San Juan 29-7 unit 37

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	7
QC Association Summary	8
Lab Chronicle	9
Certification Summary	10
Method Summary	11
Chain of Custody	12
Receipt Checklists	13

Definitions/Glossary

Client: Hilcorp Energy

Project/Site: San Juan 29-7 unit 37 SDG: San Juan 29-7 unit 37

Job ID: 885-1623-1

Qualifiers

Metals

Qualifier **Qualifier Description**

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

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

Duplicate Error Ratio (normalized absolute difference) **DER**

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)

Estimated Detection Limit (Dioxin) **EDL** 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 Method Quantitation Limit MQL

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**

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC**

Eurofins Albuquerque

Job ID: 885-1623-1

Case Narrative

Client: Hilcorp Energy Job ID: 885-1623-1

Project: San Juan 29-7 unit 37

Eurofins Albuquerque

Job Narrative 885-1623-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 3/22/2024 7:05 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 3.7°C.

Metals

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

Eurofins Albuquerque

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Client Sample Results

Client: Hilcorp Energy

Job ID: 885-1623-1

Project/Site: San Juan 29-7 unit 37

SDG: San Juan 29-7 unit 37

Project/Site: San Juan 29-7 unit 37 SDG: San Juan 29-7 unit 37

Client Sample ID: MW-1

Date Collected: 03/20/24 13:10

Date Received: 03/22/24 07:05

Lab Sample ID: 885-1623-1

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - DissolvedAnalyteResultQualifierRLUnitDPreparedAnalyzedDil FacManganese2.30.010mg/L03/26/24 08:265

Client Sample ID: MW-3

Date Collected: 03/20/24 15:20

Lab Sample ID: 885-1623-2

Matrix: Water

Date Received: 03/22/24 07:05

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

 Analyte
 Result Manganese
 Qualifier RL Qualifier RL Qualifier Manganese
 Unit Manganese
 Description
 Prepared Prepared Manganese
 Analyzed Manganese
 Dil Fac Manganese

Client Sample ID: MW-8R

Date Collected: 03/20/24 14:25

Lab Sample ID: 885-1623-3

Matrix: Water

Date Received: 03/22/24 07:05

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

 Analyte
 Result Manganese
 Qualifier Qualifier Qualifier RL Qualifier MRL QUALIFIER

QC Sample Results

Client: Hilcorp Energy Job ID: 885-1623-1 Project/Site: San Juan 29-7 unit 37 SDG: San Juan 29-7 unit 37

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 885-2306/17

Matrix: Water

Analysis Batch: 2306

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Analyte Result Qualifier RL Unit D Analyzed Dil Fac **Prepared** 03/26/24 08:15 0.0020 Manganese ND mg/L

Lab Sample ID: LCS 885-2306/19 **Client Sample ID: Lab Control Sample Matrix: Water**

Prep Type: Total/NA

Analysis Batch: 2306 Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit D %Rec Limits 0.500 0.565 85 - 115 Manganese mg/L 113

Lab Sample ID: LLCS 885-2306/18 **Client Sample ID: Lab Control Sample**

Matrix: Water Prep Type: Total/NA **Analysis Batch: 2306**

Spike LLCS LLCS %Rec Result Qualifier Limits Analyte Added Unit %Rec

Manganese 0.00200 0.00194 J mg/L 97 50 - 150

QC Association Summary

Client: Hilcorp Energy

Project/Site: San Juan 29-7 unit 37

Job ID: 885-1623-1

SDG: San Juan 29-7 unit 37

Metals

Filtration Batch: 2170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1623-1	MW-1	Dissolved	Water	Filtration	
885-1623-2	MW-3	Dissolved	Water	Filtration	
885-1623-3	MW-8R	Dissolved	Water	Filtration	

Analysis Batch: 2306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1623-1	MW-1	Dissolved	Water	200.7 Rev 4.4	2170
885-1623-2	MW-3	Dissolved	Water	200.7 Rev 4.4	2170
885-1623-3	MW-8R	Dissolved	Water	200.7 Rev 4.4	2170
MB 885-2306/17	Method Blank	Total/NA	Water	200.7 Rev 4.4	
LCS 885-2306/19	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
LLCS 885-2306/18	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

Eurofins Albuquerque

Matrix: Water

Date Collected: 03/20/24 13:10 Date Received: 03/22/24 07:05

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Filtration	Filtration			2170	TC	EET ALB	03/22/24 12:43
Dissolved	Analysis	200.7 Rev 4.4		5	2306	VP	EET ALB	03/26/24 08:26

Lab Sample ID: 885-1623-2 **Client Sample ID: MW-3**

Date Collected: 03/20/24 15:20 Date Received: 03/22/24 07:05 **Matrix: Water**

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Filtration	Filtration			2170	TC	EET ALB	03/22/24 12:43
Dissolved	Analysis	200.7 Rev 4.4		5	2306	VP	EET ALB	03/26/24 08:33

Lab Sample ID: 885-1623-3 **Client Sample ID: MW-8R**

Date Collected: 03/20/24 14:25

Date Received: 03/22/24 07:05

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number Ar	nalyst	Lab	or Analyzed
Dissolved	Filtration	Filtration			2170 TC	2	EET ALB	03/22/24 12:43
Dissolved	Analysis	200.7 Rev 4.4		1	2306 VF	>	EET ALB	03/26/24 08:36

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-1623-1 Project/Site: San Juan 29-7 unit 37 SDG: San Juan 29-7 unit 37

Laboratory: Eurofins Albuquerque

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

Authority	Progra	am	Identification Number	Expiration Date
New Mexico	State		NM9425, NM0901	02-26-25
The following analyte	s are included in this repor	rt but the laboratory is i	not certified by the governing autho	rity This list may inc
0 ,	•	,	not be tailed by the governing dathe	mity. This list may mo
for which the agency	does not offer certification Prep Method	,	Analyte	mity. This list may mo
0 ,	does not offer certification	•	, , ,	micy. This list may line

Method Summary

Client: Hilcorp Energy

Project/Site: San Juan 29-7 unit 37

Job ID: 885-1623-1

SDG: San Juan 29-7 unit 37

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET ALB
Filtration	Sample Filtration	None	EET ALB

Protocol References:

EPA = US Environmental Protection Agency

None = None

Laboratory References:

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

Eurofins Albuquerque

Page 12 of 13

Date

Released to Imaging: 8/12/2025 8:22:12 AM

Phone #:

121/24

3/27/2024

Date:

Login Sample Receipt Checklist

Job Number: 885-1623-1 Client: Hilcorp Energy SDG Number: San Juan 29-7 unit 37

List Source: Eurofins Albuquerque

Login Number: 1623 List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	Refer to Job Narrative for details.
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	Sample splitting required.
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 432365

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	432365
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By		Condition Date
amaxwell	Report accepted for record.	8/12/2025
amaxwell	Submit a C-141N for all future sampling and monitoring activities.	8/12/2025