REVIEWED

By Mike Buchanan at 11:05 am, May 29, 2024



ENSOLUM

March 25, 2024

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department

1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: 2023 Annual Groundwater Monitoring Report

Federal Gas Com H#1 San Juan County, New Mexico Hilcorp Energy Company

NMOCD Incident Number: NDGF0000010

To Whom it May Concern:

Review of the Annual Groundwater Monitoring Report for Federal Gas Com H#1: Content Satisfactory 1. Continue to sample quarterly until eight (8) consecutive quarters are achieved under the allowable

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy concentrations (At that 2023 Annual Groundwater Monitoring Report to the New York Date of Section Division (NMOCD). This report documents groundwater monitoring (Site), located Gas Com H#1 natural gas production well (Site), located governments of Section 31, Township 30 North, and Range 12 West, San Juan County Closure approva Figure 1). The Site was previously owned and operated by Amoco and then X2. Submitting 2024 (XTO) prior to the acquisition by Hilcorp. Currently, there are three monitoring Well Report by April 2025, and MW-3R) located at the Site, which are monitored quarterly for Groundwater elevations. Additionally, groundwater from monitoring well MW-1 is sampled quarterly for laboratory analysis.

SITE BACKGROUND

In November 1999, XTO responded to a release of approximately 69 barrels (bbls) of produced water and condensate. The response involved excavation and disposal of 304 cubic yards of impacted soil and the collection of confirmation soil samples from the perimeter of the excavation. On January 28, 2000, Blagg Engineering, Inc. (Blagg) submitted the *Spill Cleanup Report* detailing response activities. Field and analytical data presented in the report suggested the vertical extent of the release had been established and the lateral extent of soil impacts met closure standards except for the source area. Vertical vent piping was installed in the source area to passively remediate the remaining impacted soil through bioventing.

In March 2005, while upgrading equipment on site, XTO discovered what was believed to be a historical earthen blowdown pit. Approximately 300 cubic yards of impacted soil were excavated and disposed off-Site. Groundwater was encountered in the excavation; therefore, monitoring wells MW-1 and MW-2 were installed near the 2005 and 1999 excavations, respectively. In April 2006, monitoring well MW-3 was installed cross-gradient of the source areas. The 2006 Annual Groundwater Report was submitted to the NMOCD proposing the removal of the passive remediation system and implementation of quarterly sampling of the three monitoring wells in accordance with the NMOCD approved Groundwater Management Plan, a field-wide response plan under which the original Amoco assets were operated. Between 2007 and 2009, XTO conducted regular groundwater sampling of source monitoring wells MW-1 and MW-2 and measured groundwater elevations in all existing monitoring wells. XTO submitted annual

groundwater reports comparing laboratory analytical results to the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards. In June 2010, the vertical vent piping was removed.

In June 2010, monitoring well MW-3 was plugged and abandoned and replaced in January 2011 with monitoring well MW-3R. The 2010 Annual Groundwater Report and the 2011 Annual Groundwater Report submitted to the NMOCD by XTO recommended continued quarterly sampling of monitoring wells MW-1 and MW-2 until analytical results indicated hydrocarbon constituents were compliant with NMWQCC groundwater standards for four consecutive quarters. Additionally, XTO recommended injection of hydrogen peroxide into the groundwater aquifer using monitoring wells MW-1 and MW-2 as injection points to oxygenate the aquifer and enhance naturally occurring bioremediation.

In October 2011, XTO met with the NMOCD to present a brief history of the Site and the hydrogen peroxide injection work plan. The NMOCD did not provide comments for the hydrogen peroxide injection work plan; therefore, XTO did not proceed with the remediation, but continued to sample monitoring wells MW-1 and MW-2 and monitor groundwater elevations in the three monitoring wells quarterly through 2012. In the 2012 Annual Groundwater Report, XTO presented laboratory analytical results of benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations in groundwater samples collected from monitoring well MW-2 for four consecutive quarters that were compliant with NMWQCC standards. As a result, XTO proposed removing monitoring well MW-2 from the sampling management plan and continued sampling monitoring well MW-1 and monitoring groundwater elevations in MW-1, MW-2, and MW-3R quarterly during 2013 and 2014.

In the *2015 Annual Groundwater Report*, XTO proposed semi-annual groundwater sampling of monitoring well MW-1 and collecting semi-annual depth to groundwater measurements of monitoring wells MW-1, MW-2, and MW-3R. In December of 2017, Hilcorp acquired the Site from XTO and continued semi-annual monitoring of groundwater elevations and sampling of MW-1 during 2017 and 2018. In 2019, the Site moved from semi-annual monitoring to quarterly sampling of MW-1 due to 2018 groundwater analytical results being compliant with NMWQCC standards during both sampling events. A summary of the relative groundwater elevations and the laboratory analytical results from historical and current groundwater monitoring events are presented in Table 1 and Table 2, respectively. All previously submitted groundwater monitoring reports are available on the NMOCD database.

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 the New Mexico Administrative Code (NMAC). The following standards are presented for the chemicals of concern (COCs) at the Site in micrograms per liter (μ g/L).

Benzene: 5.0 μg/L
 Toluene: 1,000 μg/L

Ethylbenzene: 700 μg/L
Total Xylenes: 620 μg/L

GROUNDWATER SAMPLING ACTIVITIES AND RESULTS

Groundwater level measurements and samples were collected in January, May, July, and October 2023 from well MW-1. Groundwater-level measure measurements were collected from MW-2, and MW-3R in May and October 2023. Static groundwater-level monitoring included recording

depth-to-groundwater measurements of each monitoring well 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 2023 sampling events are presented in Table 1 and were used to develop groundwater potentiometric surface maps (shown on Figures 3 and 5). The inferred groundwater flow direction is to the southeast.

GROUNDWATER SAMPLING

Groundwater from monitoring well MW-1 was purged and sampled using a disposable bailer. Purging was accomplished by removing stagnant groundwater from the monitoring well prior to collecting a sample. Following well purging, groundwater samples were placed directly into laboratory-provided containers and labeled with the date and time of collection, well designation, project name, sample collector's name, and parameters to be analyzed. Samples were immediately sealed with zero headspace and packed on ice to preserve samples. Samples were submitted to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8260B. Proper chain-of-custody procedures were followed documenting the date and time sampled, sample number, type of sample, sample collector's name, preservative used, analyses required, and sample collector's signature.

GROUNDWATER ANALYTICAL RESULTS

Benzene was detected in groundwater at MW-1 during all four quarterly sampling events at concentrations above the NMWQCC standard. Ethylbenzene, toluene, and total xylenes were not detected above the NMWQCC standards during the 2023 sampling events. A summary of analytical results is presented in Table 2 and depicted on Figures 2 through 5, with complete laboratory analytical reports attached as Appendix A.

CONCLUSIONS AND RECOMMENDATIONS

Based on the current and historical groundwater analytical data collected from well MW-1, benzene concentrations have fluctuated above and below the NMWQCC standard of $5.0~\mu g/L$. Based on current groundwater conditions at the Site, Ensolum/Hilcorp recommend continued quarterly sampling from well MW-1 for BTEX analysis until eight consecutive quarters are compliant with 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

Wes Weichert, PG Project Geologist

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



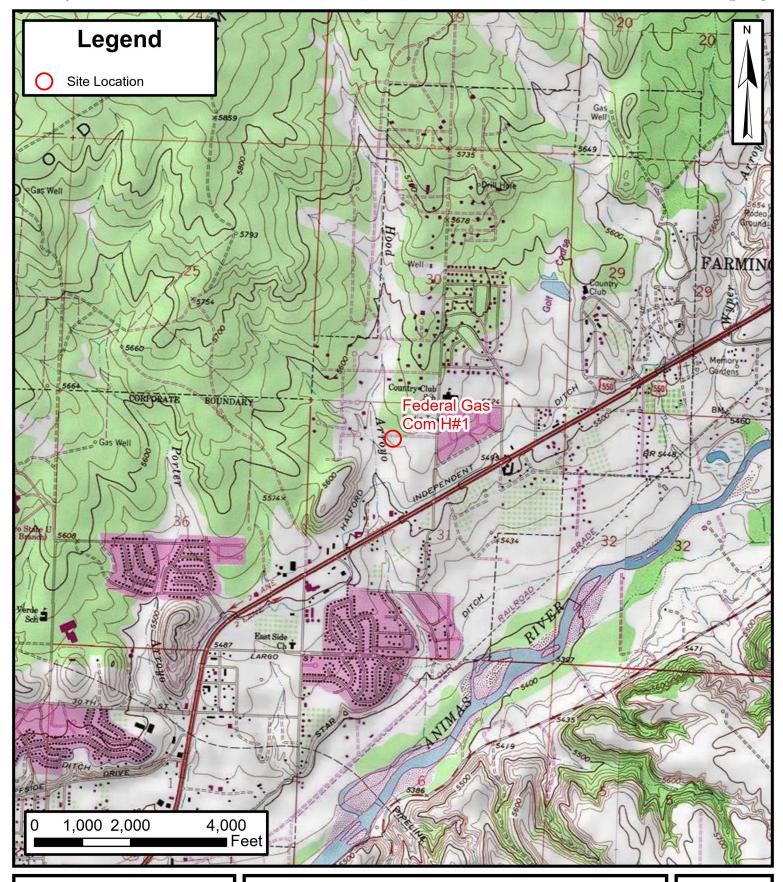
Page 4

Attachments:

Figure 1	Site Location Map
Figure 2	Analytical Results (January 2023)
Figure 3	Groundwater Elevation and Analytical Results (May 2023)
Figure 4	Analytical Results (July 2023)
Figure 5	Groundwater Elevation and Analytical Results (October 2023)
Table 1	Groundwater Elevations
Table 2	Groundwater Analytical Results
Appendix A	Analytical Laboratory Reports



FIGURES

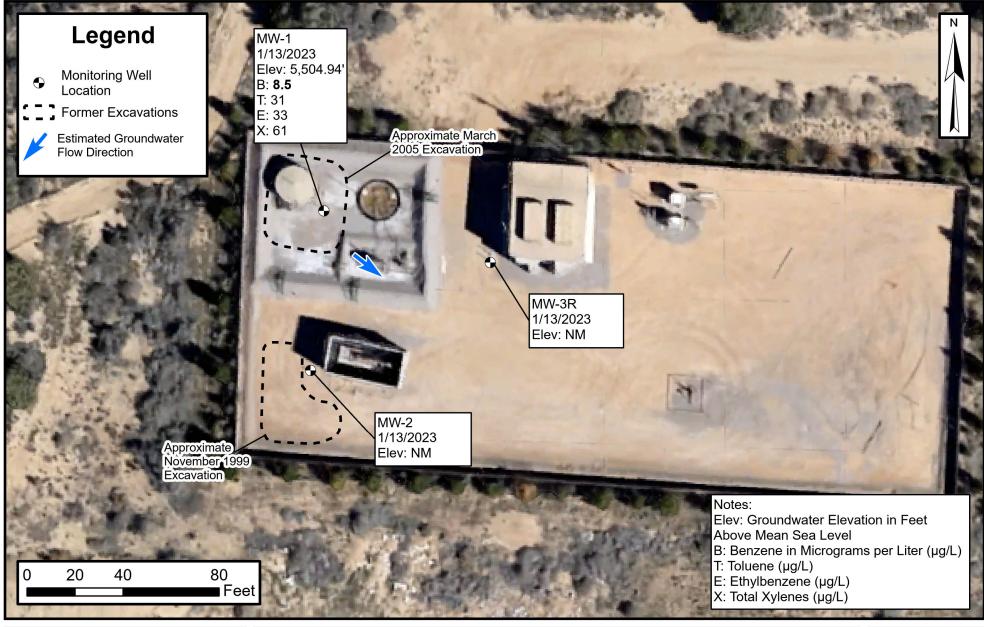




Site Location Map

Federal Gas Com H#1 Hilcorp Energy Company 36.77480, -108.14236 San Juan County, New Mexico FIGURE

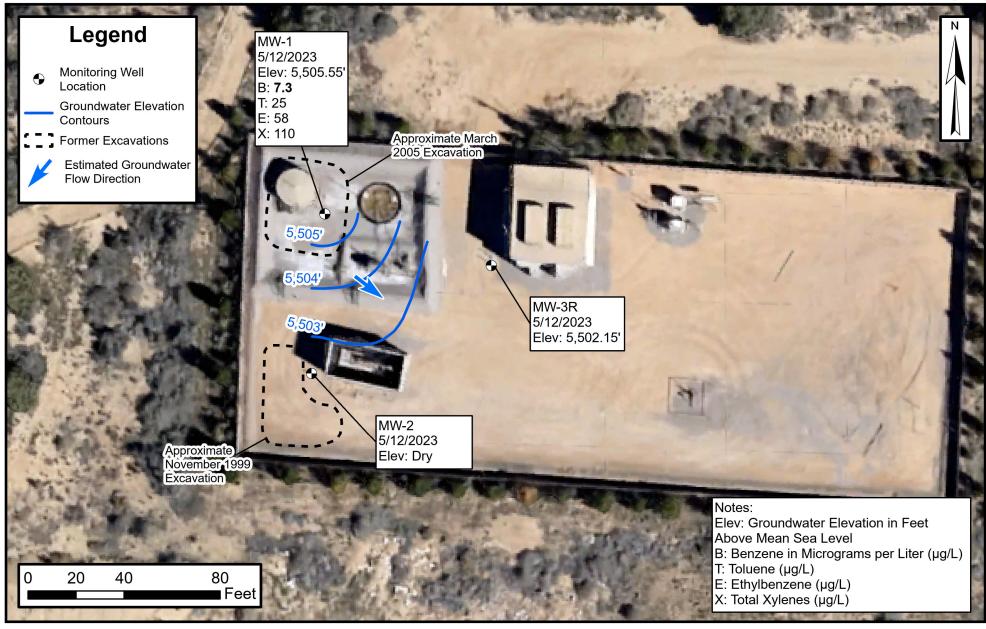
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Groundwater Analytical Results (January 2023)

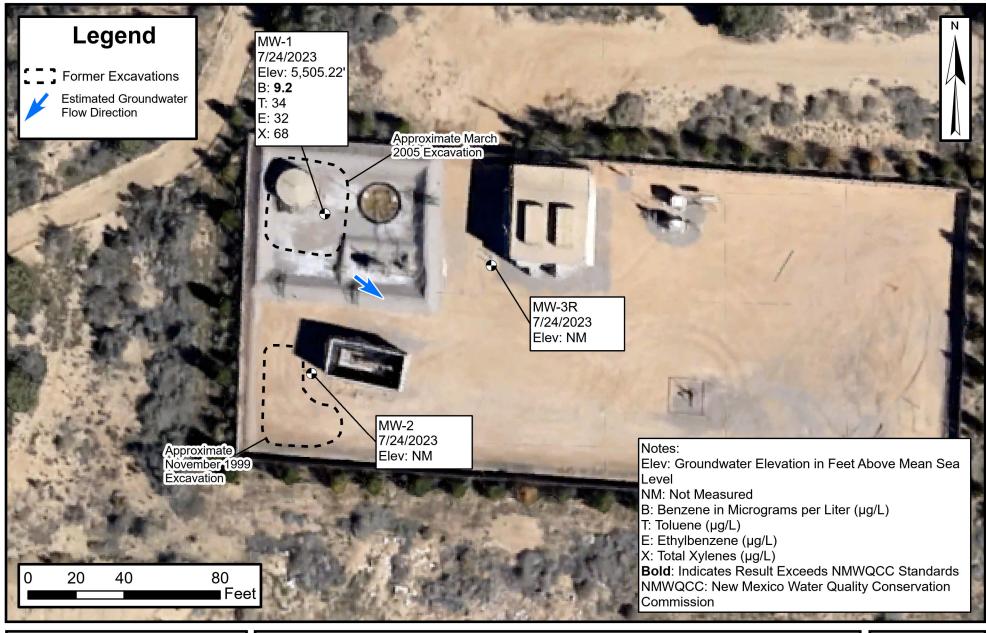
Federal Gas Com H#1 Hilcorp Energy Company 36.77480, -108.14236 San Juan County, New Mexico FIGURE





Groundwater Elevation and Analytical Results (May 2023)

Federal Gas Com H#1 Hilcorp Energy Company 36.77480, -108.14236 San Juan County, New Mexico FIGURE 3

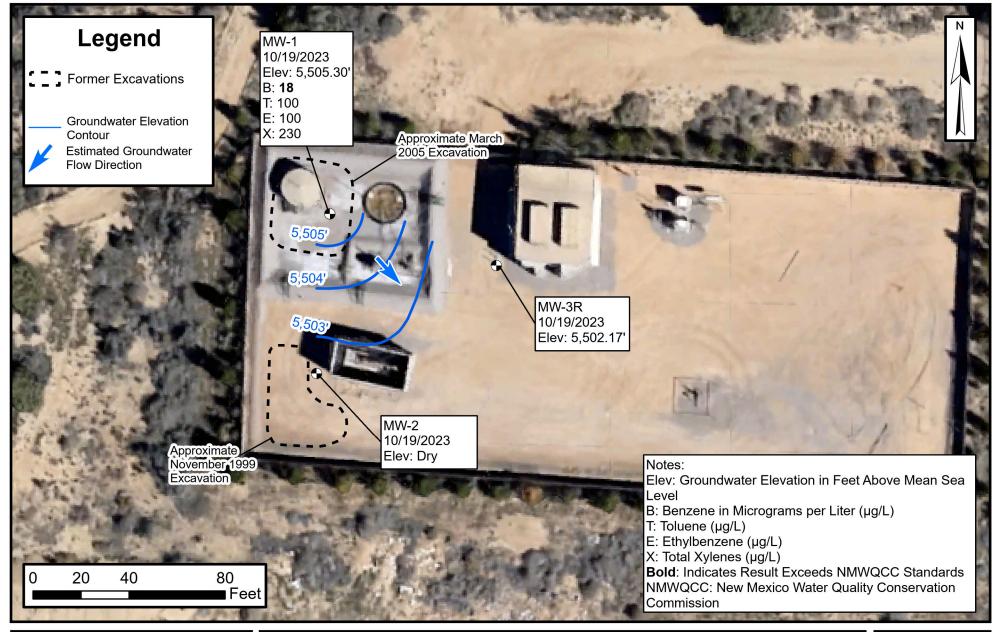




Groundwater Analytical Results (July 2023)

Federal Gas Com H#1 Hilcorp Energy Company 36.77480, -108.14236 San Juan County, New Mexico **FIGURE**

4





Groundwater Elevation and Analytical Results (October 2023)

Federal Gas Com H#1 Hilcorp Energy Company 36.77480, -108.14236 San Juan County, New Mexico **FIGURE**

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TABLES



Federal Gas Com H#1 Hilcorp Energy Company San Juan County, New Mexico

San Juan County, New Mexico									
Well Identification	Top of Casing Elevation (feet amsl)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet amsl)					
		3/29/2007	31.34	5,504.48					
	-	7/23/2007	31.55	5,504.27					
		10/11/2007	31.09	5,504.73					
		1/8/2008	31.26	5,504.56					
		7/1/2008	31.40	5,504.42					
		1/20/2009	31.29	5,504.53					
		7/8/2009	31.58	5,504.24					
		10/20/2009	31.31	5,504.51					
		1/12/2010	31.29	5,504.53					
		4/7/2010	31.03	5,504.79					
		7/20/2010	31.11	5,504.71					
		10/7/2010		5,505.31					
		1/18/2011 30.56		5,505.26					
		4/12/2011	30.83	5,504.99					
		8/9/2011	30.92	5,504.90					
		11/9/2011	30.46	5,505.36					
	5,535.82	3/8/2012	30.64	5,505.18					
MW-1		6/14/2012	31.00	5,504.82					
IVI VV - I		9/12/2012	31.11	5,504.71					
		12/12/2012	31.05	5,504.77					
		3/14/2013	29.94	5,505.88					
		6/17/2013	30.98	5,504.84					
		9/11/2013	31.05	5,504.77					
		12/16/2013	30.14	5,505.68					
		3/12/2014	30.33	5,505.49					
		6/11/2014	30.36	5,505.46					
		9/22/2014	30.46	5,505.36					
		12/9/2014	30.17	5,505.65					
		3/12/2015	30.25	5,505.57					
		6/11/2015	29.95	5,505.87					
		9/21/2015	29.57	5,506.25					
		12/21/2015	29.75	5,506.07					
		6/20/2016	30.30	5,505.52					
		12/14/2016	30.29	5,505.53					

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Federal Gas Com H#1 Hilcorp Energy Company San Juan County, New Mexico

San Juan County, New Mexico									
Well Identification	Top of Casing Elevation (feet amsl)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet amsl)					
		6/26/2017	29.98	5,505.84					
		12/12/2017	30.19	5,505.63					
		6/28/2018	30.55	5,505.27					
		12/10/2018	30.87	5,504.95					
		3/18/2019	30.49	5,505.33					
		6/19/2019	30.35	5,505.47					
		7/10/2019	30.30	5,505.52					
		9/26/2019	30.31	5,505.51					
		12/9/2019	30.26	5,505.56					
		3/13/2020	30.32	5,505.50					
MW-1	5,535.82	6/22/2020	30.54	5,505.28					
		8/31/2020	30.88	5,504.94					
		11/13/2020	30.94	5,504.88					
		1/22/2021	30.88	5,504.94					
		6/22/2021	31.16	5,504.66					
		8/26/2021	31.17	5,504.65					
		10/4/2021	31.15	5,504.67					
		1/21/2022	30.88	5,504.94					
		4/28/2022	31.07	5,504.75					
		7/28/2022	30.04	5,505.78					
		10/26/2022	30.58	5,505.24					
		1/13/2023	30.83	5,504.99					
		5/12/2023	30.27	5,505.55					
		7/24/2023	30.60	5,505.22					
		10/19/2023	30.52	5,505.30					
		3/29/2007	33.05	5,501.91					
		7/23/2007	33.24	5,501.72					
		10/11/2007	32.87	5,502.09					
		1/8/2008	32.98	5,501.98					
		7/1/2008	33.08	5,501.88					
		1/20/2009	35.34	5,499.62					
		7/8/2009	33.23	5,501.73					
		10/20/2009	32.94	5,502.02					
		1/12/2010	32.94	5,502.02					

Ensolum 2 of 6



Federal Gas Com H#1 Hilcorp Energy Company San Juan County, New Mexico

Well Identification	Top of Casing Elevation (feet amsl)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet amsl)	
MW-2	5,534.96	4/7/2010	32.71	5,502.25	
IVI VV -Z	3,334.90	7/20/2010	32.80	5,502.16	
		10/7/2010	32.30	5,502.66	
		1/18/2011	32.33	5,502.63	
		4/12/2011	32.55	5,502.41	
		8/9/2011	32.70	5,502.26	
		11/9/2011	32.28	5,502.68	
		3/8/2012	32.39	5,502.57	
		6/14/2012	32.74	5,502.22	
		9/12/2012	32.84	5,502.12	
		12/12/2012	32.78	5,502.18	
		3/14/2013	32.67	5,502.29	
		6/17/2013	32.68	5,502.28	
		9/11/2013	32.76	5,502.20	
		12/16/2013	31.90	5,503.06	
		3/12/2014	32.05	5,502.91	
		6/11/2014	32.15	5,502.81	
		9/22/2014	32.28	5,502.68	
		12/9/2014	32.03	5,502.93	
		3/12/2015	31.96	5,503.00	
		6/11/2015	31.82	5,503.14	
		9/21/2015	31.47	5,503.49	
		12/21/2015	31.61	5,503.35	
		6/20/2016	32.11	5,502.85	
		12/14/2016	32.14	5,502.82	
		6/26/2017	31.90	5,503.06	
		12/12/2017	32.03	5,502.93	
MW-2	5,534.96	6/28/2018	32.35	5,502.61	
		12/10/2018	32.62	5,502.34	
		3/18/2019	32.31	5,502.65	
		6/19/2019	32.22	5,502.74	
		7/10/2019	32.12	5,502.84	
		9/26/2019	32.12	5,502.84	
		12/9/2019	32.04	5,502.92	

Ensolum 3 of 6



Federal Gas Com H#1
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Top of Casing Elevation (feet amsl)	Elevation Date Groundwater		Groundwater Elevation (feet amsl)	
		3/13/2020	32.09	5,502.87	
		6/22/2020	32.32	5,502.64	
		8/31/2020	32.60	5,502.36	
		11/13/2020	Dry	Dry	
		1/22/2021	35.33	5,499.63	
		6/22/2021	32.80	5,502.16	
		8/26/2021	32.81	5,502.15	
		10/4/2021	32.79	5,502.17	
		1/21/2021	32.57	5,502.39	
		4/28/2022	Dry	Dry	
		7/28/2022			
		10/26/2022	32.13	5,502.83	
		5/12/2023	Dry	Dry	
		10/19/2023	Dry	Dry	
		12/6/2006	34.76	5,504.79	
		3/29/2007	34.85	5,504.70	
		7/23/2007	35.00	5,504.55	
		10/11/2007	34.55	5,505.00	
		1/8/2008	31.74	5,507.81	
MW-3	5,539.55	7/1/2008	34.86	5,504.69	
		1/20/2009	34.75	5,504.80	
		7/8/2009	35.01	5,504.54	
		10/20/2009	34.68	5,504.87	
		1/12/2010	34.71	5,504.84	
		4/7/2010	34.53	5,505.02	
		1/18/2011	34.69	5,501.91	
		4/12/2011	34.91	5,501.69	
		8/9/2011	35.01	5,501.59	
		11/9/2011	34.59	5,502.01	
		3/8/2012	34.72	5,501.88	
		6/14/2012	35.04	5,501.56	
		9/12/2012	35.13	5,501.47	
		12/12/2012	35.07	5,501.53	
		3/14/2013	34.97	5,501.63	

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Federal Gas Com H#1 Hilcorp Energy Company San Juan County, New Mexico

Well Identification	Top of Casing Elevation (feet amsl)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet amsl)	
		6/17/2013	34.98	5,501.62	
		9/11/2013	35.05	5,501.55	
		12/16/2013	34.28	5,502.32	
		3/12/2014	34.43	5,502.17	
		6/11/2014	34.57	5,502.03	
		9/22/2014	34.60	5,502.00	
MW-3R	5,536.60	12/9/2014	34.35	5,502.25	
		3/12/2015	34.31	5,502.29	
		6/11/2015	34.19	5,502.41	
		9/21/2015	33.83	5,502.77	
		12/21/2015	33.95	5,502.65	
		6/20/2016	34.55	5,502.05	
		12/14/2016	34.45	5,502.15	
		6/26/2017	34.17	5,502.43	
		12/12/2017	34.31	5,502.29	
		6/28/2018	34.65	5,501.95	
		12/10/2018	34.92	5,501.68	
		3/18/2019	34.71	5,501.89	
		6/19/2019	34.52	5,502.08	
		7/10/2019	34.49	5,502.11	
		9/26/2019	34.36	5,502.24	
		12/9/2019	34.31	5,502.29	
		3/13/2020	34.35	5,502.25	
		6/22/2020	34.58	5,502.02	
		8/31/2020	34.89	5,501.71	
		11/13/2020	34.96	5,501.64	
MW 2D	F F26 60	1/21/2021	34.88	5,501.72	
MW-3R	5,536.60	6/22/2021	35.06	5,501.54	
		8/26/2021	35.08	5,501.52	
		10/4/2021	35.07	5,501.53	
		1/21/2022	34.88	5,501.72	
		4/28/2022	34.97	5,501.63	
		7/28/2022			
		10/26/2022	34.44	5,502.16	

Ensolum 5 of 6



Federal Gas Com H#1 Hilcorp Energy Company San Juan County, New Mexico

Well Identification	Top of Casing Elevation (feet amsl)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet amsl)	
		5/12/2023	34.45	5,502.15	
		10/19/2023	34.43	5,502.17	

Notes:

--: not measured

amsl: above mean sea level BTOC: below top of casing

Ensolum 6 of 6

TABLE 2 GROUNDWATER ANALYTICAL RESULTS

Federal Gas Com H#1
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (μg/L)
NMWQCC	Standards	5.0	1,000	700	620
	3/29/2007	39	ND	560	2,300
	7/23/2007	32	ND	610	2,300
	10/11/2007	50	18	440	1,500
	1/8/2008	47	7.1	730	3,000
	7/1/2008	18	9.6	350	980
	1/20/2009	30	22	370	910
	7/8/2009	16	ND	280	530
	10/20/2009	33	9.7	310	630
	1/12/2010	31	<1.0	270	500
	4/7/2010	33	16	290	630
	7/20/2010	27	10	360	710
	10/7/2010	26	<50	320	600
	1/18/2011	33	50	300	600
	4/12/2011	27	<100	320	700
	8/9/2011	20.8	21	257	444
	11/9/2011	17	<250	240	390
MW-1	3/8/2012	22	<50	200	260
IVI VV - 1	6/14/2012	14	<50	170	170
	9/12/2012	11	<5	110	73
	12/12/2012	23	<25	170	270
	3/14/2013	16	14	130	220
	6/17/2013	20	16	99	160
	9/11/2013	23	<50	120	230
	12/16/2013	28	61	160	310
	3/12/2014	26	85	140	320
	6/11/2014	35	150	160	390
	9/22/2014	34	<100	230	530
	12/9/2014	22	82	96	230
	3/12/2015	8.0	26	72	140
	6/11/2015	44	220	320	980
	9/21/2015	65.9	391	212	599
	12/21/2015	105	105	205	634
	6/20/2016	37.6	182	239	626
	12/14/2016	19.0	118	118	323



TABLE 2 **GROUNDWATER ANALYTICAL RESULTS**

Federal Gas Com H#1 **Hilcorp Energy Company** San Juan County, New Mexico

San Juan County, New Mexico								
Well Identification	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)			
NMWQCC Standards		5.0	1,000	700	620			
	6/26/2017	13.7	85.2	87.3	250			
	12/12/2017	10.5	20.6	31.2	65.5			
	6/28/2018	14	160	94	290			
	12/10/2018	3.8	17	23	53			
	3/18/2019	7.1	72	68	150			
	7/10/2019	8.6	92	58	150			
	9/26/2019	13	73	67	170			
	12/9/2019	10	60	69	140			
	3/13/2020	14	190	71	270			
	6/22/2020	8.4	61	50	130			
	8/31/2020	15.3	141	94	333			
MW-1	11/13/2020	7.5	60	86	216			
	1/22/2021	10.6	87	68.7	179			
	6/22/2021	4.1	<2.0	12	16			
	8/26/2021	9.0	13	95	170			
	10/4/2021	3.7	11	42	65			
ľ	4/28/2022	5.0	6	23	30			
ľ	7/28/2022	5.4	13	28	48			
ľ	10/26/2022	7.1	22	32	54			
ľ	1/13/2023	8.5	31	33	61			
ľ	5/12/2023	7.3	25	58	110			
ľ	7/24/2023	9.2	34	32	68			
	10/19/2023	18	100	100	230			
	3/29/2007	55	ND	39	60			
	7/23/2007	39	ND	25	9.2			
	10/11/2007	86	ND	97	140			
	1/8/2008	65	ND	82	56			
	7/1/2008	15	ND	22	7.3			
	1/20/2009	38	ND	85	49			
	7/8/2009	7.5	ND	13	3			
	10/20/2009	20	<1.0	31	29			
MW-2	1/12/2010	22	<1.0	54	41			
	4/7/2010	37	1.3	110	130			
ł	7/20/2010	17	<1.0	94	92			
ŀ	10/7/2010	34	<5	120	140			
ŀ	1/18/2011	30	<50	160	170			
ŀ	4/12/2011	25	<25	62	100			
ŀ	8/9/2011	4	<1	9.8	33.2			
ŀ	11/9/2011	26	<5	160	160			
ŀ	3/8/2012	9.3	<10	79	90			

TABLE 2 GROUNDWATER ANALYTICAL RESULTS

Federal Gas Com H#1 Hilcorp Energy Company San Juan County, New Mexico

Well Identification	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)
NMWQCC	Standards	5.0	1,000	700	620
	6/14/2012	2.6	<5	29	44
MW-2	9/12/2012	0.91	<5	8.8	5.2
	12/12/2012	0.71	<5	3.5	3.9
	12/6/2006	ND	ND	ND	ND
	3/29/2007	ND	ND	ND	ND
MW-3	7/23/2007	ND	ND	ND	ND
	10/11/2007	ND	ND	ND	ND
	1/8/2008	ND	ND	ND	ND

Notes:

μg/L: milligrams per liter

ND: not detected, practical quantitation limit unknown

NMWQCC: New Mexico Water Quality Control Commission

--: not analyzed

<0.037: indicates result less than the stated laboratory reporting limit (RL)

Concentrations in bold exceed the New Mexico Water Quality Control Commission Standards, 20.6.2 of the

New Mexico Administrative Code



APPENDIX A

Laboratory Analytical Reports



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 18, 2023

Mitch Killough HILCORP ENERGY PO Box 4700 Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: Federal GC H1 OrderNo.: 2301552

Dear Mitch Killough:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/14/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2301552

Date Reported: 1/18/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: MW-1

 Project:
 Federal GC H1
 Collection Date: 1/13/2023 11:30:00 AM

 Lab ID:
 2301552-001
 Matrix: AQUEOUS
 Received Date: 1/14/2023 9:20:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst: CCM
Benzene	8.5	5.0	μg/L	5	1/16/2023 7:33:00 PM
Toluene	31	5.0	μg/L	5	1/16/2023 7:33:00 PM
Ethylbenzene	33	5.0	μg/L	5	1/16/2023 7:33:00 PM
Xylenes, Total	61	7.5	μg/L	5	1/16/2023 7:33:00 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%Rec	5	1/16/2023 7:33:00 PM
Surr: 4-Bromofluorobenzene	99.7	70-130	%Rec	5	1/16/2023 7:33:00 PM
Surr: Dibromofluoromethane	110	70-130	%Rec	5	1/16/2023 7:33:00 PM
Surr: Toluene-d8	98.9	70-130	%Rec	5	1/16/2023 7:33:00 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 2

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301552

18-Jan-23

Client: HILCORP ENERGY **Project:** Federal GC H1

Sample ID: 100ng lcs	SampType: LCS			Tes	TestCode: EPA Method 8260: Volatiles Short List				st	
Client ID: LCSW	Batch ID: SL93966			F	RunNo: 93	3966				
Prep Date:	Analysis D)ate: 1/1	16/2023		SeqNo: 33	393533	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.8		10.00		98.0	70	130			

Sample ID: mb	SampT	уре: МВ	BLK	Tes	tCode: EF	PA Method	8260: Volatile	s Short Li	st	
Client ID: PBW	Batch	n ID: SL	93966	F	RunNo: 93	3966				
Prep Date:	Analysis D)ate: 1/1	16/2023	(SeqNo: 33	393534	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.7	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.9		10.00		99.2	70	130			

Qualifiers:

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

Page 2 of 2

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 5/29/2024 2:43:29 PM

				attenvironmei			
Client Name:	HILCORP ENER	RGY V	Nork Order Numbe	r: 2301552		RcptNc	o: 1
Received By:	Sean Livingsto	on 1/1	4/2023 9:20:00 AN	Л	S-L	yot-	
Completed By:	Sean Livingsto	on 1/1	4/2023 9:41:29 AM	1	5Li		
Reviewed By:	ff 1-16-23) <i>U</i> ,	Jo-	
Chain of Cus	stody						
1. Is Chain of C	Sustody complete?			Yes 🗌	No 🗹	Not Present	
2. How was the	sample delivered?	?		<u>Courier</u>			
Log In					🗖	🗖	
3. Was an atter	mpt made to cool th	ne samples?		Yes 🗹	No 🗌	NA 🗌	
4. Were all sam	ples received at a	temperature of >0	0° C to 6.0°C	Yes 🗹	No 🗌	na 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient san	mple volume for ind	licated test(s)?		Yes 🗹	No 🗆		
7. Are samples	(except VOA and C	ONG) properly pre	served?	Yes 🗹	No 🗌		
8. Was preserva	ative added to bottl	es?		Yes 🗌	No 🗹	na 🗆	
9. Received at le	east 1 vial with hea	dspace <1/4" for a	AQ VOA?	Yes 🗹	No 🗆	NA 🗆	
10. Were any sa	mple containers re	ceived broken?		Yes 🗌	No 🗹	# of preserved	
	ork match bottle la			Yes 🗹	No 🗆	bottles checked for pH: (<2 o	r >12 unless noted)
12. Are matrices	correctly identified	on Chain of Custo	ody?	Yes 🔽	No 🗌	Adjusted?	
[3] Is it clear wha	at analyses were re	quested?		Yes 🗹	No □		3 t
	ing times able to be customer for author			Yes 🗹	No 🗆	Checked by:_	JN 1/16/
Special Hand	ling (if applica	ble)					
15. Was client no	otified of all discrep	pancies with this o	rder?	Yes 🗌	No 🗆	NA 🗹	
Person	Notified:		Date:				
By Wh	om:		Via:	eMail] Phone [] Fax	☐ In Person	
Regard	ding:		*				1
Client I	Instructions:						
16. Additional re	emarks:						
17. <u>Cooler Info</u>							
Cooler No		ondition Seal In		Seal Date	Signed By	MANAMOR	
11	1.6 Goo	d Yes	YOGI			- Company	

Received by OCD: 3/25/2024 9:52:12 AM

-	,		Tim-Around Time	.a			1					0	
- 1	In-or-	Chain-or-Custody Record		<u>i</u>				ALL	HALL ENVIRONMENTAL	RON	ME	AL	٦
Client: Hilcorp	Hilcorp Farmington NM	on NM	X Standard	□ Rush				NAL	ANALYSIS LABORATORY	ABC	JRA	TO	≿
			Project Name:					www.halle	www.hallenvironmental.com	ntal.com			
Mailing Address	3: 382 Ro	Mailing Address: 382 Road 3100 Aztec, NM 87410		Federal GC H1		49(01 Hawk	ins NE -	4901 Hawkins NE - Albuquerque, NM 87109	ue, NM 8	87109		
Billing Address:	PO Box	Billing Address: PO Box 61529 Houston, TX 77208	Project #:			Te	1. 505-3	Tel. 505-345-3975	Fax 505	Fax 505-345-4107	20		
Phone #:	505-486-9543	-9543						An	Analysis Request	quest			
email or Fax#:	Brandon	Brandon, Sinclair@hilcorp.com	Project Manager:										
QA/QC Package: □ Standard		☐ Level 4 (Full Validation)	Mitch	Killouah	4								
Accreditation:	☐ Az Co ☐ Other	□ Az Compliance □ Other		Brandon Sinclair ☐ Yes □ No	No	0							
□ EDD (Type)			olers:		1R: YOUR	928				•	_		
			Cooler Temp(including CF):	-	5+0,1=1.0+5	poqt							
Date Time	Matrix	Sample Name	Container Type Preservative and #		HEAL NO. 2301552	BTEX Me							
1130	Water	MW-1	(3) 40ml VOA	HCL	100	×							
						1							
Date: Time:	Relinquished by:	hed by:	Received by:	Via:	gate Time	Remark	s: Speci	Remarks: Special Pricing See Andy	See Andy				
	Relinquished by:	ned by:	Received by:		Date Time								
1/3/23 1832		MINTE	المحرد و	hil)	114/13 9:20								
					The second secon		4	A department of the second	to the section of	1 1 1 1 1 1	-	1	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 23, 2023

Mitch Killough HILCORP ENERGY PO Box 4700 Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: Federal GC H1 OrderNo.: 2305757

Dear Mitch Killough:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/13/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2305757

Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: MW-1

 Project:
 Federal GC H1
 Collection Date: 5/12/2023 11:20:00 AM

 Lab ID:
 2305757-001
 Matrix: AQUEOUS
 Received Date: 5/13/2023 7:20:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	7.3	5.0	D	μg/L	5	5/19/2023 2:16:57 PM
Toluene	25	5.0	D	μg/L	5	5/19/2023 2:16:57 PM
Ethylbenzene	58	5.0	D	μg/L	5	5/19/2023 2:16:57 PM
Xylenes, Total	110	7.5	D	μg/L	5	5/19/2023 2:16:57 PM
Surr: 1,2-Dichloroethane-d4	98.9	70-130	D	%Rec	5	5/19/2023 2:16:57 PM
Surr: 4-Bromofluorobenzene	101	70-130	D	%Rec	5	5/19/2023 2:16:57 PM
Surr: Dibromofluoromethane	93.6	70-130	D	%Rec	5	5/19/2023 2:16:57 PM
Surr: Toluene-d8	98.2	70-130	D	%Rec	5	5/19/2023 2:16:57 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 3

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2305757 23-May-23**

Client: HILCORP ENERGY
Project: Federal GC H1

Sample ID: 100ng Ics	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8260B: VOLA	TILES		
Client ID: LCSW	Batcl	n ID: R9	6928	F	RunNo: 96	6928				
Prep Date:	Analysis D	Date: 5/ 1	19/2023	5	SeqNo: 35	516393	Units: µg/L			
Analyte	Result	PQL	SPK value	HighLimit	%RPD	RPDLimit	Qual			
Benzene	20	1.0	20.00	0 101 70			130			
Toluene	19	1.0	20.00	0	96.7	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	9.7		10.00		96.5	70	130			

Sample ID: 2305757-001a ms	SampT	уре: М S	;	Tes	tCode: EF	PA Method	8260B: VOLA	TILES		
Client ID: MW-1	Batcl	n ID: R9	6928	F	RunNo: 90	6928				
Prep Date:	Analysis D	Date: 5/	19/2023	5	SeqNo: 3	516396	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	96	5.0	100.0	7.290	89.2	70	130			
Toluene	130	5.0	100.0	24.51	103	70	130			
Surr: 1,2-Dichloroethane-d4	49		50.00		97.4	70	130			
Surr: 4-Bromofluorobenzene	50		50.00		100	70	130			
Surr: Dibromofluoromethane	46		50.00		91.7	70	130			
Surr: Toluene-d8	50		50.00		100	70	130			

Sample ID: 2305757-001a msd	I Samp∃	Гуре: МS	SD	Tes	tCode: EF	PA Method	d 8260B: VOLATILES					
Client ID: MW-1	Batcl	h ID: R9	6928	F	RunNo: 96	6928						
Prep Date:	Analysis [Date: 5/	19/2023	5	SeqNo: 3	516397	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	100	5.0	100.0	7.290	93.8	70	130	4.63	20			
Toluene	130	5.0	100.0	24.51	102	70	130	1.28	20			
Surr: 1,2-Dichloroethane-d4	47		50.00		94.2	70	130	0	0			
Surr: 4-Bromofluorobenzene	52		50.00		104	70	130	0	0			
Surr: Dibromofluoromethane	47		50.00		93.2	70	130	0	0			
Surr: Toluene-d8	51		50.00		101	70	130	0	0			

Sample ID: mb	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8260B: VOLA	TILES		
Client ID: PBW	Batch	n ID: R9	6928	F	RunNo: 96	6928				
Prep Date:	Analysis D	Date: 5/	19/2023	9	SeqNo: 3	516419	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								

Qualifiers:

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

Page 2 of 3

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

2305757 23-May-23

WO#:

Client: HILCORP ENERGY **Project:** Federal GC H1

Sample ID: mb	Samp ⁻	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8260B: VOLA	ATILES		
Client ID: PBW	Batc	h ID: R9	6928	F	RunNo: 96	6928				
Prep Date:	Analysis [Date: 5/	19/2023	S	SeqNo: 3	516419	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.5	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.7		10.00		97.1	70	130			

Qualifiers:

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

Page 3 of 3



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 5/29/2024 2:43:29 PM

Client Name:	Hilcorp Energy	Work Ore	der Number: 23	05757		RcptNo	o: 1
Received By:	Juan Rojas	5/13/2023	7:20:00 AM		Howard		
Completed By:	Tracy Casarrubias	5/13/2023	9:23:48 AM				
Reviewed By:	The	5 13/23					
Chain of Cus	<u>tody</u>				_	_	
1. Is Chain of Co	ustody complete?		Ye	s 🗸	No 🗌	Not Present \square	
2. How was the	sample delivered?		<u>Co</u>	<u>urier</u>			
<u>Log In</u> 3. Was an attern	npt made to cool the s	amples?	Ye	s 🗹	No 🗆	na 🗆	
4. Were all samp	oles received at a tem	perature of >0° C to 6	6.0°C Ye	s 🗸	No 🗌	na 🗆	
5. Sample(s) in	proper container(s)?		Ye	s 🗸	No 🗌		
6. Sufficient sam	ple volume for indicat	ed test(s)?	Yes	s V	No 🗆		
7. Are samples (except VOA and ONG	6) properly preserved?	Yes	· 🗸	No 🗌		
8. Was preserva	tive added to bottles?		Yes	s 🗌	No 🗹	NA 🗌	
9. Received at le	ast 1 vial with headsp	pace <1/4" for AQ VOA	? Yes	· 🗹	No 🗆	na 🗆	
10. Were any san	nple containers receiv	red broken?	Ye	s 🗆	No 🗹	# of preserved	
	ork match bottle labels ancies on chain of cus		Yes	V	No 🗆	·	or >12 unless noted)
12. Are matrices o	correctly identified on	Chain of Custody?	Yes	· 🗸	No 🗌	Adjusted?	
	t analyses were reque		Yes		No 🗌		1. 2/2/2
	ng times able to be m ustomer for authorizat		Yes	V	No 📙]	Checked by:	Jus 117/2
Special Handl	ing (if applicable	<u>.)</u>					
15. Was client no	tified of all discrepand	cies with this order?	Ye	s 🗌	No 🗌	NA 🗹	
	Notified:		Date:	-			
By Who			Via:	Vlail	Phone Fax	In Person	
Regard							
Client II	nstructions:					II	
17. Cooler Infor	1	E 10 11 1 1 3 -		D-1 2	0:- 17		
Cooler No	Temp °C Condi		eal No Seal orty	Date	Signed By		
-	1.1 0000	I CO WIC	/ity				

Received by OCD: 3/25/2024 9:52:12 AM

Cha	in of	Chain-of-Custody Record	Turn-Around Time:						1				
Client: Hilcorp	Hilcorp Farmington NM		X Standard	□ Rush			Ì	HALL ENVIRONMENTAL ANALYSTS LABORATORY	VIR		ENT	AL	
			Project Name:				· ·	www.hallenvironmental.com	ronmenta	L com			
Mailing Addres	s: 382 Rc	Mailing Address: 382 Road 3100 Aztec, NM 87410	Feo	Federal GC H1		4901	Hawkins	4901 Hawkins NE - Albuquerque, NM 87109	ranerque	, NM 871	60		
Billing Address	PO Box	Billing Address: PO Box 61529 Houston, TX 77208	Project #:			Tel.	Tel. 505-345-3975	3975 F	Fax 505-345-4107	45-4107			
Phone #:	505-486-9543	5-9543						Ina	Analysis Request	est			
email or Fax#:	Brandor	Brandon.Sinclair@hilcorp.com	Project Manager:						F	F			
QA/QC Package:				-									
□ Standard		☐ Level 4 (Full Validation)	Mitch A	Killowah				-					
Accreditation:	□ Az Ç	☐ Az Compliance		n Sinc					-				
□ FDD (Tvpe)			# of Coolers:	Tes No	V	092							
			Cooler Temp(including CF).	(F): . ~ 67.	1	3 poqi							
Date Time	Matrix	Sample Name	Container Type Preservative and #	Servative HEAL No.	AL No.	em Xata							
5-12 1120	Water	MW-1	(3) 40ml VOA	HCL 801		×							1
													ŀ
													1
													1
													1
							of the same	-					
S=1.2 (3)	Relinquished by:	ned by:	Received by: Via:	Date 5/12/23	Time F	emarks:	Special F	Remarks: Special Pricing See Andy	Andy				
Date: Time:	Relinquished by:	ed by:	Received by: Via:	Date	Time								
112/23 100	<u>ر</u>	JU WILLIAM	1 May	Hours 5/13/23 7/20	3 1100								

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be dearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

August 02, 2023

Mitch Killough HILCORP ENERGY PO Box 4700 Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: Federal GC H1 OrderNo.: 2307B22

Dear Mitch Killough:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/25/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2307B22**Date Reported: **8/2/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: MW-1

 Project:
 Federal GC H1
 Collection Date: 7/24/2023 10:55:00 AM

 Lab ID:
 2307B22-001
 Matrix: AQUEOUS
 Received Date: 7/25/2023 6:20:00 AM

Analyses	Result	RL Qua	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: CCM
Benzene	9.2	2.0	μg/L	2	7/27/2023 10:04:00 PM
Toluene	34	2.0	μg/L	2	7/27/2023 10:04:00 PM
Ethylbenzene	32	2.0	μg/L	2	7/27/2023 10:04:00 PM
Xylenes, Total	68	3.0	μg/L	2	7/27/2023 10:04:00 PM
Surr: 1,2-Dichloroethane-d4	99.2	70-130	%Rec	2	7/27/2023 10:04:00 PM
Surr: 4-Bromofluorobenzene	120	70-130	%Rec	2	7/27/2023 10:04:00 PM
Surr: Dibromofluoromethane	108	70-130	%Rec	2	7/27/2023 10:04:00 PM
Surr: Toluene-d8	112	70-130	%Rec	2	7/27/2023 10:04:00 PM

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

Qualifiers:

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

Page 1 of 2

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2307B22

02-Aug-23

Client: HILCORP ENERGY **Project:** Federal GC H1

Sample ID: 100ng Ics	Samp1	ype: LC	s	Tes	tCode: EF	PA Method	8260B: Volatil	es Short I	List	
Client ID: LCSW	Batcl	n ID: SL	98537	F	RunNo: 98	3537				
Prep Date:	Analysis D	Date: 7/2	27/2023	SeqNo: 3588926			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	110	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		111	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		119	70	130			
Surr: Dibromofluoromethane	11		10.00		113	70	130			
Surr: Toluene-d8	11		10.00		105	70	130			

Sample ID: mb	SampT	ype: M B	BLK	Tes	stCode: EF	PA Method	8260B: Volati	les Short	List	
Client ID: PBW	Batch	n ID: SL	98537	F	RunNo: 98	8537				
Prep Date:	Analysis D	Date: 7/2	27/2023	;	SeqNo: 3	588927	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		114	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		114	70	130			
Surr: Dibromofluoromethane	12		10.00		119	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Qualifiers:

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

Page 2 of 2

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	HILCORP ENERGY	Work Order Number:	2307B22		RcptNo:	1
Received By:	Tracy Casarrubias	7/25/2023 6:20:00 AM				
Completed By:	Tracy Casarrubias Scm 07/25/23	7/25/2023 8:46:15 AM				
	·					
Chain of Cus	stody		_			
1. Is Chain of C	Custody complete?		Yes 🗹	No 🗔	Not Present \square	
2. How was the	e sample delivered?		Courier			
<u>Log In</u>			_			
3. Was an atter	mpt made to cool the sample	s?	Yes 🗹	No 🗌	NA 🗌	
4. Were all sam	nples received at a temperatu	re of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗌	
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sar	mple volume for indicated tes	t(s)?	Yes 🗹	No 🗌		
7. Are samples	(except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗌		
8. Was preserve	ative added to bottles?		Yes 🗌	No 🗸	NA 🗌	
9. Received at I	least 1 vial with headspace <	I/4" for AQ VOA?	Yes 🗹	No 🗌	NA 🗌	
	ample containers received bro		Yes	No 🗹		•
					# of preserved bottles checked	
	vork match bottle labels?		Yes 🗸	No 🗌	for pH:	> 12 (mlana atad)
	pancies on chain of custody)		(5)	🗆	(<∠ o Adjusted?	r >12 unless noted)
	correctly identified on Chain	of Custody?	Yes 🗹	No ∐	riajuotou.	
	at analyses were requested?		Yes 🗹	No 🗌	Checked by:	フルコロドン・
	ding times able to be met? customer for authorization.)		Yes 🗹	No ∐	Criecked by.	1772
Special Hand	lling (if applicable)					
15. Was client r	notified of all discrepancies wi	th this order?	Yes 🗌	No 🗌	NA 🗹	
Perso	n Notified:	Date:				
By Wh	nom:	Via:	_] eMail	Phone Fax	☐ In Person	
Regar	-		*	V. and the Control of		
Client	Instructions:					
16. Additional r	remarks:					

- 17. Cooler Information

Yespect Name: Federal GC H1 A901 Have Project Name: Project Name: Federal GC H1 A901 Have Project Namager: Project Manager: Pr	ceived by OCD. 3/43/4044 7.34.14 AM	The state of the s	rage 3/ of 45
Project Name: Project Name	Chain-of-Custody Record	Turn-Around Time:	HALL ENVIRONMENTAL
Project Ni 382 Road 3100 Aztec, NM 87410 Po Box 61529 Houston, TX 77208 Sempler: Contained Matrix Matrix Matrix Sample Name MW-1 (3) 40ml Relinguished by: Received Braceived Brace Submitted to Hall Environmental mayber subcontracted	Client: Hilcorp Farmington NM		ANALYSIS LABORATORY
382 Road 3100 Aztec, NM 87410 506-486-9543 Brandon, Sinclair@hilcorp.com Compliance Containe Matrix Sample Name Water Water Water Water MW-1 (3) 40ml Relinguished by: Relinguished by: Relinguished by: Relinguished by: Received It Received to Hall Environmental maybe subcontracted		Project Name:	www.hallenvironmental.com
Project ## Brandon, Sinclair@hilcorp.com Level 4 (Full Validation) M; f. Az Compliance Sampler Sampler Other # of Cooler If Water Wwater WW-1 (3) 40ml Relinquished by: Received both Received both Relinquished by: Received both Received both Relinquished by: Received both Received both Received both Receiv	Mailing Address: 382 Road 3100 Aztec, NM 87410	Federal GC H1	4901 Hawkins NE - Albuquerque, NM 87109
Brandon Sinclair@hilcorp.com Level 4 (Full Validation) M '.f. Sampler: Sampler: On Ice: # of Cool Fooler Te Matrix Sample Name and # Water MW-1 (3) 40ml Relinquished by: Relinquished by: Received by: Received by: Relinquished by: Received by: R	Billing Address: PO Box 61529 Houston, TX 77208	Project #:	Fax
Devel 4 (Full Validation) M 1/4	Phone #: 505-486-9543		Analysis Request
M. f. Sampler: Other Other Watrix Sample Name Water Wa		Project Manager:	
Matrix Sample Name and # Water MW-1 (3) 40ml Relinquished by: Received to Hall Environmental may-be subcontracted		٧	
Matrix Sample Name and # Water MW-1 (3) 40ml Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Received by: Relinquished by: Relinquished by: Received by: Relinquished by: Relinquished by: Received by: Relinquished by: Received by: Receiv		: Brandon Sinclair	90
Matrix Sample Name and # Water MW-1 (3) 40ml Relinquished by: Relinquished by: Relinquished by: Received by:	Į į		3 826
Matrix Sample Name and # Water MW-1 (3) 40ml Relinquished by: Relinquished by: Relinquished by: Relinquished by: Relinquished by: Received by: Rec		8-0-8	portie
Water MW-1 (3) 40ml Relinquished by: Received by: Rec	Time Matrix	ner Type Preservative 73	BLEX M
Relinquished by: Relinquished by: Received b	10<< Water	VOA HCL	×
Received by: Relinquished by: Received by: R	777		
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Relinquished by: Relinquished by: Received by: Received by: If necessary, samples submitted to Hall Environmental may-be subcontracted			
Relinguished by: Make Received to the submitted to Hall Environmental may-be subcontracted to the subcontract		Via: Date 7	Remarks: Special Pricing See Andy
M. M. M. M. M. M. M. Samples submitted to Hall Environmental may-be subcontracted		Selvent Control of the Control of th	-
if necessary, samples submitted to Hall Environmental may-be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repo		01.0 8428/F	
	If necessary, samples submitted to Hall Environmental ma	y-be subcontracted to other accredited laboratories. This serves as notice of this	is possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

October 31, 2023

Mitch Killough
HILCORP ENERGY
PO Box 4700
Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: Federal GC H1 OrderNo.: 2310A77

Dear Mitch Killough:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/21/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2310A77

Date Reported: 10/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: MW-1

 Project:
 Federal GC H1
 Collection Date: 10/19/2023 2:00:00 PM

 Lab ID:
 2310A77-001
 Matrix: AQUEOUS
 Received Date: 10/21/2023 6:35:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	18	2.0	μg/L	2	10/28/2023 1:25:40 AM
Toluene	100	2.0	μg/L	2	10/28/2023 1:25:40 AM
Ethylbenzene	100	2.0	μg/L	2	10/28/2023 1:25:40 AM
Xylenes, Total	230	3.0	μg/L	2	10/28/2023 1:25:40 AM
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	2	10/28/2023 1:25:40 AM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	2	10/28/2023 1:25:40 AM
Surr: Dibromofluoromethane	90.2	70-130	%Rec	2	10/28/2023 1:25:40 AM
Surr: Toluene-d8	99.1	70-130	%Rec	2	10/28/2023 1:25:40 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

2310A77 31-Oct-23

WO#:

Client: HILCORP ENERGY
Project: Federal GC H1

Sample ID: 100ng lcs	Samp1	ype: LC :	S	Tes	tCode: EF	PA Method	8260B: Volati	les Short I	List	
Client ID: LCSW	Batch	n ID: SL	100807	F	RunNo: 10	00807				
Prep Date:	Analysis D)ate: 10	/27/2023	5	SeqNo: 36	697546	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.8	70	130			
Toluene	20	1.0	20.00	0	98.5	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		93.6	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.8	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: mb	Samp ⁻	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8260B: Volati	les Short	List	
Client ID: PBW	Batc	h ID: SL	100807	F	RunNo: 10	00807				
Prep Date:	Analysis [Date: 10	/27/2023	5	SeqNo: 30	697559	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.8	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		105	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.5	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 5/29/2024 2:43:29 PM

Client Name: HILCORP ENERGY	Work Order Num	ber: 2310A77		RcptNo: 1	
Received By: Tracy Casarrubias	10/21/2023 6:35:0	0 AM			
Completed By: Tracy Casarrubias	10/21/2023 8:21:5	3 AM			
Reviewed By: 7~10/27/23					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In		_			
3. Was an attempt made to cool the samples?	•	Yes 🗹	No 📙	NA 🗌	
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗌	na 🗆	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sample volume for indicated test(s	s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) proper	ly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗸	NA 🗌	
9. Received at least 1 vial with headspace <1/a>	I" for AQ VOA?	Yes 🗹	No 🗌	NA □	
10. Were any sample containers received broke	en?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels?		Yes 🗸	No 🗆	bottles checked for pH:	
(Note discrepancies on chain of custody)		163 🖭		(<2 or >12 ui	nless noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes 🗹	No 🗌	Adjusted?	•
13. Is it clear what analyses were requested?		Yes 🗹	No 🗔	Grm	Tahaha
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	(0/1)/1
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	this order?	Yes 🗌	No 🗌	na 🗹	
Person Notified:	Date	e l			
By Whom:	Via:	*	hone Fax	☐ In Person	
Regarding:			toractive his societies record	and the second s	
Client Instructions:					
16. Additional remarks:					
17. Cooler Information					
	eal Intact Seal No	Seal Date	Signed By		
1 0.8 Good Ye	s Yogi				

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Ch	In-ot-	Chain-of-Custody Record		<u>v</u>				HAL	FINA	CAL	Z	FZ	١٥	
Client: Hilcorp	Hilcorp Farmington NM	ion NM	X Standard	□ Rush				ANA	ANALYSIS LABORATORY	3	30R	ATO	RY	
			Project Name:					www.ha	www.hallenvironmental.com	ental.c	E O			
Mailing Addres	ss: 382 Rc	Mailing Address: 382 Road 3100 Aztec, NM 87410	1	Federal GC H1	1	4	901 Hav	kins NE	4901 Hawkins NE - Albuquerque, NM 87109	rque, N	IM 871	60		
Billing Addres	s: PO Box	3illing Address: PO Box 61529 Houston, TX 77208	Project #:				-el. 505-	Tel. 505-345-3975		Fax 505-345-4107	-4107			
Phone #:	505-486-9543	3-9543						,	Analysis Request	sanba	t			
email or Fax#:		Brandon.Sinclair@hilcorp.com	Project Manager:											
AA/QC Package: □ Standard	às	☐ Level 4 (Full Validation)	Mitch	X Nova										
Accreditation:	□ Az Co	□ Az Compliance □ Other		Brandon Sinčlair ☑ Yes □ I	9	(
□ EDD (Type)	1_		# of Coolers:		6	826								
			Cooler Temp(including CF):	8	-0-0.8.	році								
Date Time	Matrix	Sample Name	Container Type I	vative	HEAL NO.	BTEX Me								
001161-01) Water	MW-1	(3) 40ml VOA	HCL	100	×								
						·		_						
					: :									
Date: Tyte:	The 3 Relinquished by:	hed by;		Via:	Date Time	Remar	ks: Spe	ial Pricin	Remarks: Special Pricing See Andy	_				
10-01	76	d'un I	7	7	12423 1636									
Date: Time: (5)	Reli	nquished by:	d by:	Via: Course	Date Time 7:3/0:3/									
	†	TWO TWO	A STATE OF THE STA			-				-				1

If necessary, samples submitted to Hall Environmental may be subcontracted to prher accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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

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

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

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

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

CONDITIONS

Action 326303

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	326303
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By		Condition Date
michael.buchanan	Review of the Annual Groundwater Monitoring Report for Federal Gas Com H#1: Content Satisfactory 1. Continue to sample quarterly until eight (8) consecutive quarters are achieved under the allowable concentrations. At that time, a closure report and vadose sampling work plan will need to be submitted for closure approval. 2. Submit the 2024 Annual Report by April 2025.	5/29/2024