REVIEWED
By Mike Buchanan at 10:48 am, Apr 23, 2025

Review of the 2024 Annual Groundwater Monitoring Report for Hampton #4M (3R-069): content satisfactory
1. Monitoring wells: MW-5 and MW-12 may be suspended from the groundwater sampling each quarter. Provide the P&A permits obtained by OSE for upload to the OCD portal in the incident file.
2. Continue to manually bail if enough LNAPL is present in wells, or continue to utilize an absorbent or ORC sock to recover residual LNAPL that remains in MW-16.
3. Continue to sample all remaining wells for constituents of concern.
4. Submit the 2025 Annual Groundwater Monitoring Report to the OCD no later than April 1, 2026.

ENSOLUM

March 4, 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
Hampton #4M
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident Number: NAUTOFAB000251
NMOCD Administrative Order: 3R-069

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company, submits this *2024 Annual Groundwater Monitoring Report* to the New Mexico Oil Conservation Division (NMOCD) to document groundwater monitoring activities conducted at the Hampton #4M natural gas production well (Site) during 2024. The Site is located approximately 0.5 miles south of Hampton Arroyo on federal land surface managed by the Bureau of Land Management (BLM) within Unit N, Section 13, Township 30 North, and Range 11 West, San Juan County, New Mexico (Figure 1).

SITE BACKGROUND

The Site production well was spudded by the Southland Royal Company (Southland) in 1983. Since then, the well has changed ownership from Southland to Burlington Resources (Burlington) in 1996, ConocoPhillips in 2006, and Hilcorp in 2017. In addition, the Public Service Company of New Mexico (PNM) operated a dehydration unit and unlined earthen pit at the Site between 1990 and 1996 (located on the north end of the well pad). Petroleum hydrocarbon impacted soil and groundwater were encountered during pit-closure activities performed in 1996. In response, PNM conducted a subsurface investigation and installed several wells in the northern portion of the well pad to assess soil and groundwater conditions. Further investigations performed in 1997 and 1998 revealed a separate source of petroleum hydrocarbon contamination at the southern end of the well pad (upgradient of the PNM pit), located near equipment owned by Burlington. The 1997 investigation also discovered a surface seep to the northwest of the well pad (downgradient of the well pad) that contained phase separated hydrocarbons (PSH).

Based on the investigations conducted at the Site, NMOCD issued Administrative Order Number R-11134-A to Burlington and PNM. Burlington was assigned responsibility for soil and groundwater impacts south/upgradient of the PNM dehydrator pit and PNM responsibility of impacts north/downgradient of the dehydrator pit. Several attempts to remediate the Site have been performed between 1997 and 2017 and include excavation, application of potassium permanganate within the excavations, manual PSH recovery (bailing/adsorbent socks), mobile dual-phase extraction, and PSH recovery using a skimmer pump. ConocoPhillips also installed a

solar-powered skimmer in 2016 to recover PSH from well MW-16; however, the system was removed in 2019 due to poor PSH recovery. Since the system removal, adsorbent socks have been placed into this well and replaced quarterly to address residual PSH.

Since 1997, several former wells at the Site have been damaged and/or removed during excavation. Currently, eight wells remain at the Site and include MW-1, MW-5, MW-9, MW-11, MW-12, MW-15, MW-16, and TMW-1. Based on results and conclusions presented in WSP's *2020 Annual Groundwater Monitoring Report* (dated March 22, 2021), the NMOCD approved the plugging and abandonment of wells MW-1, MW-9, MW-11, MW-15, and TMW-1, which was completed in 2023. 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 New Mexico Water Quality Control Commission (NMWQCC) and listed in Title 20, Chapter 6, Part 2, Section 3103 (20.6.2.3103) of the New Mexico Administrative Code (NMAC). The following standards are presented for constituents of concern (COCs) at the Site in milligrams per liter (mg/L).

- Benzene: 0.005 mg/L
- Toluene: 1.0 mg/L
- Ethylbenzene: 0.70 mg/L
- Total Xylenes: 0.62 mg/L

In addition, NMWQCC standards state light non-aqueous phase liquids (LNAPLs) or PSH, as referenced in this report, shall not be present floating on the groundwater table.

GROUNDWATER SAMPLING ACTIVITIES AND RESULTS

Groundwater monitoring at the Site included quarterly gauging and sampling from wells MW-5 and MW-12, as well as PSH recovery from well MW-16. Groundwater-level measurements and samples were collected in February, May, August, and November 2024. A sample was not collected for laboratory analysis from MW-16 due to the presence of PSH during all sampling events. Static groundwater level measurements included recording depth-to-groundwater and PSH, where detected, 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. Measured depths-to-groundwater and PSH and associated calculated groundwater elevations are presented in Table 1. Based on historical Site-wide depth-to-groundwater measurements, the inferred groundwater flow direction is to the north.

GROUNDWATER SAMPLING

Groundwater from monitoring wells MW-5 and MW-12 was purged and sampled using a disposable bailer. Purging was accomplished by removing stagnant groundwater from the monitoring well prior to collecting a sample. Field measurements of groundwater quality parameters, including temperature, pH, electrical conductivity, and total dissolved solids were collected during the quarterly sampling events and are presented in Table 2.

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. They were immediately sealed, packed on ice,

and submitted to Eurofins Environmental Testing Laboratory (Eurofins) for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260B or 8015B. 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

Analytical results indicate BTEX constituents in wells MW-5 and MW-12 were compliant with NMWQCC standards during all sampling events; however, PSH was detected in well MW-16 during all sampling events, with thicknesses ranging from 0.01 feet to 0.12 feet. A summary of the analytical results is provided in Table 3 and illustrated in Figure 3, with complete laboratory analytical reports included in Appendix A.

PHASE SEPARATED HYDROCARBON RECOVERY

A solar-powered skimmer was previously used to recover PSH from well MW-16 at the Site. The system was subsequently removed in 2019 due to poor PSH recovery. Since the system removal, adsorbent socks have been placed into this well to address the residual PSH. During quarterly sampling events, residual PSH still present in MW-16 was removed using a disposable bailer. In 2024, approximately 3 ounces of PSH was removed from MW-16. Table 4 presents the volume of PSH recovered during each monitoring event between 2019 and 2024.

CONCLUSIONS

Overall, the presence of PSH and BTEX concentrations have decreased over time at the Site. BTEX concentrations in wells MW-5 and MW-12 have been in compliance with NMWQCC standards since September 2021 and August 2019, respectively. PSH remains in well MW-16; however, the thickness and volume of recoverable PSH has also decreased over time. Data collected at the Site suggests the petroleum hydrocarbon plume is stable and reducing.

Based on these conclusions, BTEX concentrations at MW-5 and MW-12 have been in compliance with the NMWQCC standards for eight consecutive quarters. As a result, Ensolum on behalf of Hilcorp is recommending sampling at MW-5 and MW-12 be discontinued and these wells be plugged and abandoned. As approved by the NMOCD, Hilcorp plugged and abandoned wells MW-1, MW-9, MW-11, and MW-15, and TMW-1 in 2023. Quarterly sampling along with PSH monitoring and recovery from well MW-16 will continue until all PSH is removed and BTEX concentrations have been compliant with NMWQCC standards for eight consecutive quarters.

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

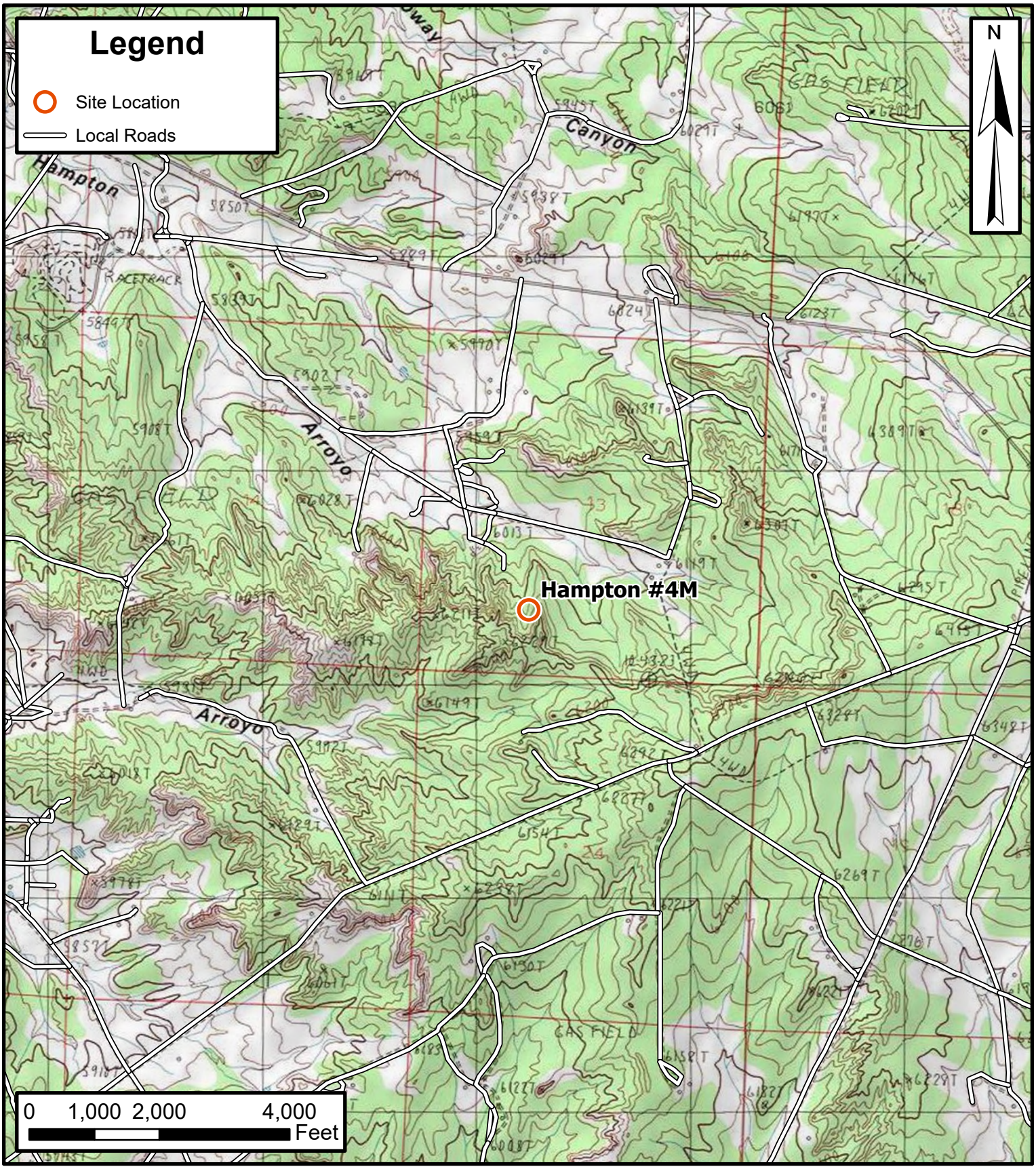
Stuart Hyde, PG (Licensed in WA & TX)
Senior Geologist
(970) 903-1607
shyde@ensolum.com

Attachments:

Figure 1	Site Location Map
Figure 2	Site Map
Figure 3	Groundwater Analytical Results
Table 1	Groundwater Elevations
Table 2	Groundwater Quality Measurements
Table 3	Groundwater Analytical Results
Table 4	PSH Recovery
Appendix A	Laboratory Analytical Reports

ENSOLUM

FIGURES



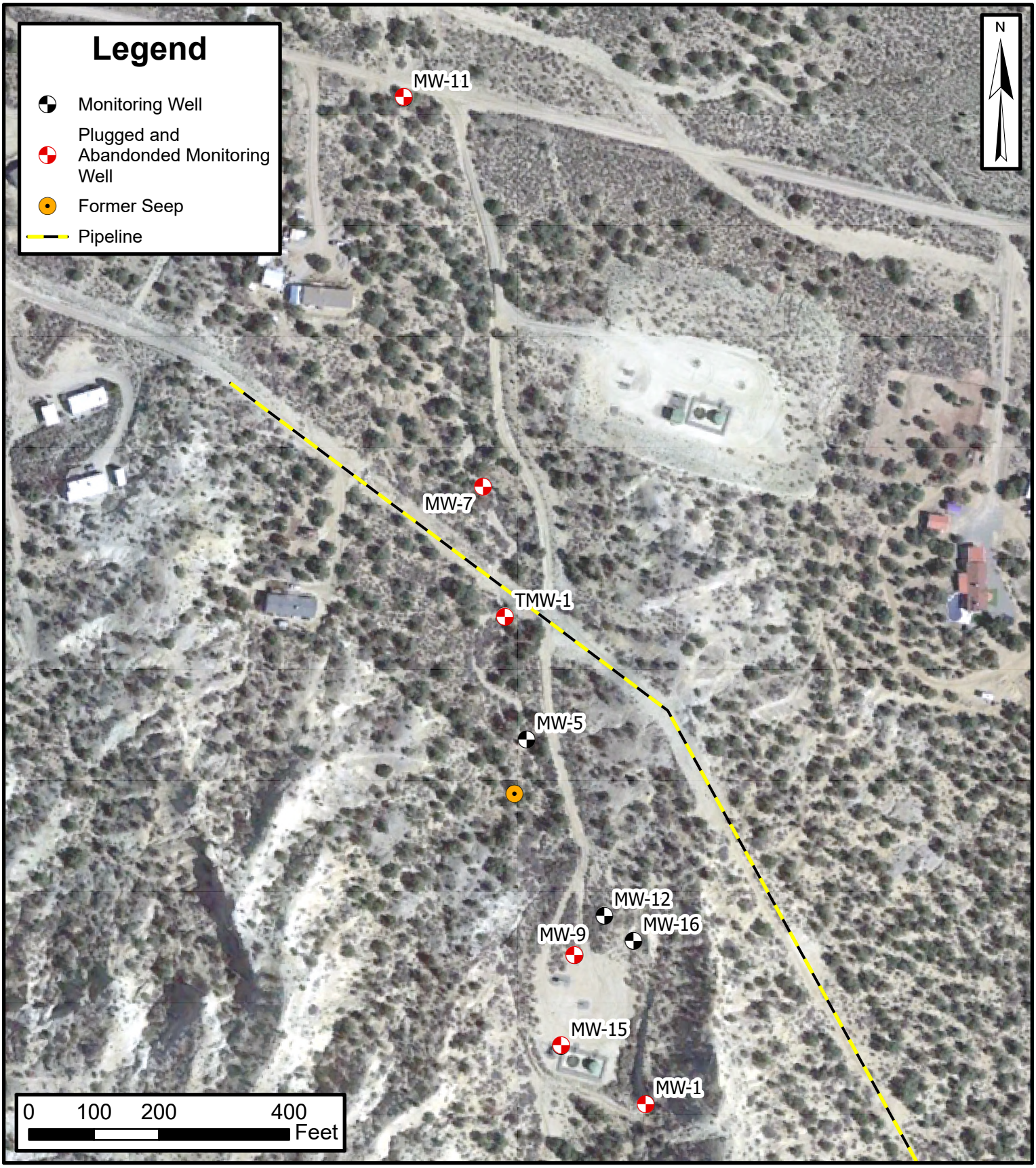
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Location Map

Hampton #4M
Hilcorp Energy Company
36.80719, -107.94582
San Juan County, New Mexico

FIGURE
1

Sources: Environmental Systems Research Institute (ESRI), National Geographic Society, i-cubed



ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

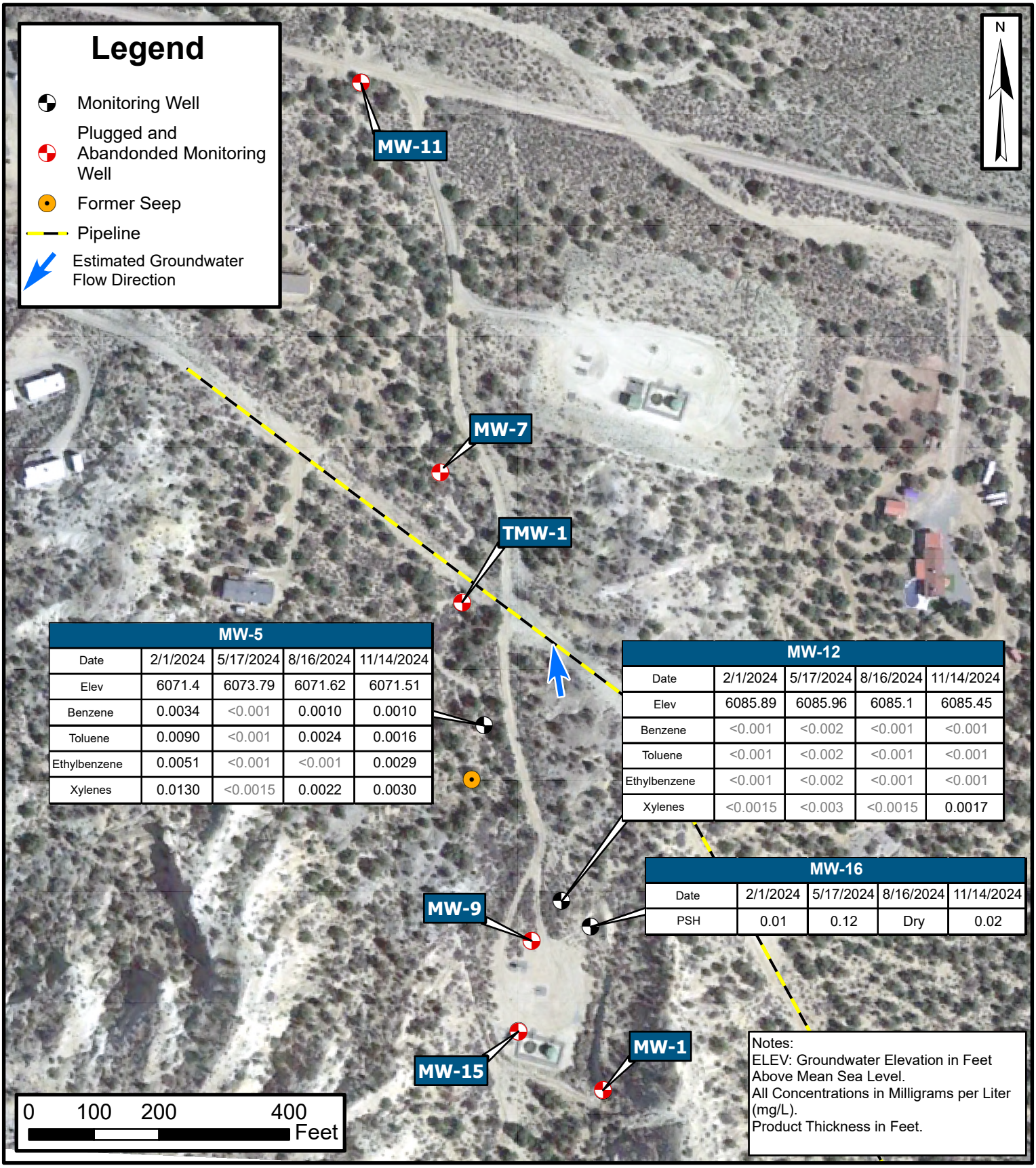
Site Map

Hampton #4M
Hilcorp Energy Company

36.80719, -107.94582
San Juan County, New Mexico

FIGURE
2

Sources: Google Earth



MW-5				
Date	2/1/2024	5/17/2024	8/16/2024	11/14/2024
Elev	6071.4	6073.79	6071.62	6071.51
Benzene	0.0034	<0.001	0.0010	0.0010
Toluene	0.0090	<0.001	0.0024	0.0016
Ethylbenzene	0.0051	<0.001	<0.001	0.0029
Xylenes	0.0130	<0.0015	0.0022	0.0030

MW-12				
Date	2/1/2024	5/17/2024	8/16/2024	11/14/2024
Elev	6085.89	6085.96	6085.1	6085.45
Benzene	<0.001	<0.002	<0.001	<0.001
Toluene	<0.001	<0.002	<0.001	<0.001
Ethylbenzene	<0.001	<0.002	<0.001	<0.001
Xylenes	<0.0015	<0.003	<0.0015	0.0017

MW-16				
Date	2/1/2024	5/17/2024	8/16/2024	11/14/2024
PSH	0.01	0.12	Dry	0.02

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Groundwater Analytical Results - 2024

Hampton #4M
Hilcorp Energy Company

36.80719, -107.94582
San Juan County, New Mexico

FIGURE
3

Sources: Google Earth

ENSOLUM

TABLES

ENSOLUM

TABLE 1
GROUNDWATER ELEVATIONS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Top of Casing Elevation (feet amsl)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-1	6,149.42	11/8/2007	--	42.81	--	6,106.61
		1/17/2008	--	42.96	--	6,106.46
		3/19/2008	--	42.93	--	6,106.49
		7/22/2008	--	42.74	--	6,106.68
		10/23/2008	--	32.80	--	6,116.62
		1/21/2009	--	42.90	--	6,106.52
		9/24/2009	--	43.09	--	6,106.33
		9/28/2010	--	43.19	--	6,106.23
		10/11/2011	--	43.55	--	6,105.87
		9/25/2012	--	43.88	--	6,105.54
		9/18/2013	--	44.32	--	6,105.10
		3/24/2014	--	44.10	--	6,105.32
		9/24/2014	--	44.69	--	6,104.73
		9/23/2015	--	44.95	--	6,104.47
		9/15/2016	--	45.11	--	6,104.31
		10/26/2017	--	45.16	--	6,104.26
		9/6/2018	--	45.52	--	6,103.90
		8/8/2019	--	45.28	--	6,104.14
		8/4/2020	--	45.56	--	6,103.86
		3/8/2022	--	45.42	--	6,104.00
MW-5	6,090.83	11/8/2007	--	16.52	--	6,074.31
		1/17/2008	--	15.65	--	6,075.18
		3/19/2008	--	13.64	--	6,077.19
		7/22/2008	--	15.72	--	6,075.11
		10/23/2008	--	16.53	--	6,074.30
		1/21/2009	--	16.04	--	6,074.79
		9/24/2009	--	16.89	--	6,073.94
		9/28/2010	--	16.55	--	6,074.28
		10/11/2011	--	17.39	--	6,073.44
		9/25/2012	--	17.46	--	6,073.37
		9/18/2013	--	16.78	--	6,074.05
		9/24/2014	--	17.50	--	6,073.33
		9/23/2015	--	17.17	--	6,073.66
		9/15/2016	--	17.24	--	6,073.59
		10/26/2017	--	17.69	--	6,073.14
		9/6/2018	--	18.12	--	6,072.71
		8/7/2019	--	16.87	--	6,073.96
		8/6/2020	--	17.62	--	6,073.21
		9/30/2021	--	18.51	--	6,072.32
		3/8/2022	--	19.72	--	6,071.11
		5/9/2022	--	16.86	--	6,073.97
		8/10/2022	--	18.09	--	6,072.74
		11/30/2022	--	19.38	--	6,071.45
		3/17/2023	--	19.66	--	6,071.17
		6/15/2023	--	16.69	--	6,074.14
		8/2/2023	--	17.67	--	6,073.16
		11/14/2023	--	18.59	--	6,072.24
		2/1/2024	--	19.43	--	6,071.40

ENSOLUM

TABLE 1
GROUNDWATER ELEVATIONS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Top of Casing Elevation (feet amsl)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-5	6,090.83	5/17/2024	--	17.04	--	6,073.79
		8/16/2024	--	19.21	--	6,071.62
		11/14/2024	--	19.32	--	6,071.51
MW-7	6,066.91	11/8/2007	--	20.22	--	6,046.69
		1/17/2008	--	20.50	--	6,046.41
		3/19/2008	--	20.02	--	6,046.89
		7/22/2008	--	19.29	--	6,047.62
		10/23/2008	--	19.95	--	6,046.96
		1/21/2009	--	20.44	--	6,046.47
		9/24/2009	--	20.55	--	6,046.36
		9/28/2010	--	21.24	--	6,045.67
		10/11/2011	--	DRY	--	--
		9/25/2012	--	DRY	--	--
		9/18/2013	--	DRY	--	--
		5/9/2014	Well Plugged and Abandoned			
MW-9	6,122.52	11/8/2007	--	22.91	--	6,099.61
		1/17/2008	--	22.76	--	6,099.76
		3/19/2008	--	22.38	--	6,100.14
		7/22/2008	--	23.10	--	6,099.42
		10/23/2008	--	23.02	--	6,099.50
		1/21/2009	--	22.85	--	6,099.67
		9/24/2009	--	23.64	--	6,098.88
		9/28/2010	--	23.70	--	6,098.82
		10/11/2011	--	24.03	--	6,098.49
		9/25/2012	--	24.61	--	6,097.91
		9/18/2013	--	24.61	--	6,097.91
		9/24/2014	--	25.18	--	6,097.34
		9/23/2015	--	25.32	--	6,097.20
		9/15/2016	--	25.82	--	6,096.70
		10/26/2017	--	25.35	--	6,097.17
		9/6/2018	--	26.00	--	6,096.52
		8/8/2019	--	25.56	--	6,096.96
		8/4/2020	--	25.96	--	6,096.56
		3/8/2022	--	25.47	--	6,097.05
MW-11	6,015.75	11/8/2007	--	56.00	--	5,959.75
		1/17/2008	--	55.86	--	5,959.89
		3/19/2008	--	55.88	--	5,959.87
		7/22/2008	--	55.71	--	5,960.04
		10/23/2008	--	55.91	--	5,959.84
		1/21/2009	--	55.75	--	5,960.00
		9/24/2009	--	56.02	--	5,959.73
		9/28/2010	--	56.06	--	5,959.69
		10/11/2011	--	56.21	--	5,959.54
		9/25/2012	--	56.41	--	5,959.34
		9/18/2013	--	56.73	--	5,959.02
		9/24/2014	--	56.91	--	5,958.84
		9/23/2015	--	57.20	--	5,958.55
		9/15/2016	--	58.37	--	5,957.38

ENSOLUM

TABLE 1
GROUNDWATER ELEVATIONS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Top of Casing Elevation (feet amsl)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-11	6,015.75	10/26/2017	--	57.42	--	5,958.33
		9/6/2018	--	57.84	--	5,957.91
		8/7/2019	--	57.86	--	5,957.89
		8/6/2020	--	58.04	--	5,957.71
		3/8/2022	--	58.42	--	5,957.33
MW-12	6,109.02	11/8/2007	--	20.46	--	6,088.56
		1/17/2008	--	20.24	--	6,088.78
		3/19/2008	--	19.85	--	6,089.17
		7/22/2008	--	20.54	--	6,088.48
		10/23/2008	--	20.61	--	6,088.41
		1/21/2009	--	20.37	--	6,088.65
		9/24/2009	--	21.23	--	6,087.79
		9/28/2010	--	21.27	--	6,087.75
		10/11/2011	--	21.58	--	6,087.44
		9/25/2012	--	22.14	--	6,086.88
		9/18/2013	--	22.17	--	6,086.85
		3/24/2014	--	21.64	--	6,087.38
		9/24/2014	--	22.70	--	6,086.32
		9/23/2015	--	22.84	--	6,086.18
		9/15/2016	--	22.21	--	6,086.81
		10/26/2017	--	22.82	--	6,086.20
		9/6/2018	--	23.53	--	6,085.49
		8/8/2019	--	23.08	--	6,085.94
		8/4/2020	--	23.47	--	6,085.55
		9/30/2021	--	23.75	--	6,085.27
		3/8/2022	--	22.90	--	6,086.12
		5/9/2022	--	22.96	--	6,086.06
		8/10/2022	--	23.74	--	6,085.28
		11/30/2022	--	23.39	--	6,085.63
		3/17/2023	--	22.78	--	6,086.24
		6/15/2023	--	23.05	--	6,085.97
		8/2/2023	--	20.66	--	6,088.36
		11/14/2023	--	23.64	--	6,085.38
		2/1/2024	--	23.13	--	6,085.89
		5/17/2024	--	23.06	--	6,085.96
		8/16/2024	--	23.92	--	6,085.10
		11/14/2024	--	23.57	--	6,085.45
MW-15	No Survey Data	11/8/2007	--	18.03	--	--
		1/17/2008	--	18.20	--	--
		3/19/2008	--	17.60	--	--
		7/22/2008	--	17.79	--	--
		10/23/2008	--	18.01	--	--
		1/21/2009	--	18.20	--	--
		9/24/2009	--	18.33	--	--
		9/28/2010	--	18.25	--	--
		10/11/2011	--	18.65	--	--
		9/25/2012	--	18.97	--	--
		9/18/2013	--	19.23	--	--

ENSOLUM

TABLE 1
GROUNDWATER ELEVATIONS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Top of Casing Elevation (feet amsl)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-15	No Survey Data	9/24/2014	--	19.43	--	--
		9/23/2015	--	19.58	--	--
		9/15/2016	--	19.69	--	--
		10/26/2017	--	19.60	--	--
		9/6/2018	--	20.05	--	--
		8/8/2019	--	19.68	--	--
		8/4/2020	--	20.05	--	--
MW-16	No Survey Data	11/8/2007	--	25.03	--	--
		1/17/2008	--	24.88	--	--
		3/19/2008	--	24.37	--	--
		7/22/2008	--	25.00	--	--
		10/23/2008	--	25.57	--	--
		1/21/2009	--	24.97	--	--
		9/24/2009	--	25.75	--	--
		9/28/2010	--	25.41	--	--
		10/11/2011	--	28.26	--	--
		9/25/2012	26.57	27.38	0.81	--
		9/18/2013	27.34	28.15	0.81	--
		3/24/2014	25.96	28.20	2.24	--
		9/24/2014	28.00	28.84	0.84	--
		9/23/2015	26.83	29.27	2.44	--
		9/15/2016*	33.25	33.34	0.09	--
		10/27/2016*	33.25	33.42	0.17	--
		6/14/2017	--	30.58	--	--
		10/26/2017	31.39	--	--	--
		9/6/2018	33.49	33.51	0.02	--
		8/8/2019	--	31.86	--	--
		8/5/2020	31.70	33.36	1.66	--
		9/30/2021	32.94	33.77	0.83	--
		3/8/2022	33.23	33.75	0.52	--
		5/9/2022	33.53	33.86	0.33	--
		8/10/2022	33.58	33.84	0.26	--
		11/30/2022	33.70	33.88	0.18	--
		3/17/2023	33.75	--	--	--
		6/15/2023	33.57	33.78	0.21	--
		8/2/2023	33.67	33.87	0.20	--
		11/14/2023	33.70	--	--	--
		2/1/2024	33.80	33.81	0.01	--
		5/17/2024	33.73	33.84	0.12	--
		8/16/2024	--	Dry	--	--
		11/14/2024	33.72	33.74	0.02	--
TMW-1	No Survey Data	11/8/2007	--	19.06	--	--
		1/17/2008	--	19.37	--	--
		3/19/2008	--	18.55	--	--
		7/22/2008	--	18.10	--	--
		10/23/2008	--	19.19	--	--
		1/21/2009	--	19.25	--	--

ENSOLUM

TABLE 1
GROUNDWATER ELEVATIONS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Top of Casing Elevation (feet amsl)	Date	Depth to Product (feet BTOC)	Depth to Groundwater (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
TMW-1	No Survey Data	9/24/2009	--	19.61	--	--
		9/28/2010	--	19.11	--	--
		10/11/2011	--	19.39	--	--
		9/25/2012	--	DRY	--	--
		9/18/2013	--	DRY	--	--
		9/24/2014	--	DRY	--	--
		9/23/2015	--	DRY	--	--
TMW-1	No Survey Data	10/26/2017	--	DRY	--	--
		9/6/2018	--	DRY	--	--
		8/8/2019	--	DRY	--	--
		8/6/2020	--	DRY	--	--

Notes:

**: extension added to top of PVC casing resulting in greater depths to groundwater*

amsl: above mean sea level

BTOC: below top of casing

--: indicates no GWEL or PSH measured

Groundwater elevation is adjusted using a density correction factor of 0.8 when product is present

ENSOLUM

TABLE 2
GROUNDWATER QUALITY MEASUREMENTS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Date	Temperature (°C)	pH	TDS (g/L)	Conductivity (uS/cm)	DO (mg/L)	ORP (mV)
MW-1	9/23/2015	12.65	5.20	2.10	3,226	2.75	-26.0
	10/26/2017	13.26	4.37	--	2,522	2.29	204.8
	9/6/2018	17.53	4.82	--	2,775	6.22	260.7
	8/8/2019	20.20	4.66	1.53	3,020	--	73.5
	8/4/2020	19.70	4.77	1.41	2,870	2.64	91.5
MW-5	9/23/2015	15.63	5.85	2.85	4,377	3.10	-114.9
	9/15/2016	--	--	--	--	--	--
	9/6/2018	Sample volume insufficient to analyze field parameters					
	8/7/2019	21.30	4.42	2.41	4,900	--	142.6
	8/6/2020	18.70	5.20	2.01	4,020	2.09	61.2
	9/30/2021	No Parameters taken due to equipment malfunction					
	3/8/2022	7.80	3.78	--	3,570	--	--
	5/9/2022	16.70	3.39	2.11	4,210	--	--
	8/10/2022	18.30	3.48	1.73	3,460	--	--
	11/30/2022	13.30	4.16	1.55	3,090	--	--
	6/15/2023	19.01	4.61	--	1	6.99	-18.7
	8/2/2023	44.76	4.62	3.67	5,638	2.85	253.6
	11/14/2023	19.28	5.01	3.50	5,382	1.68	181.5
	2/1/2024	17.21	5.22	3.25	4,997	2.44	237.6
	5/17/2024	30.25	5.47	3.38	5,199	6.04	232.0
	8/16/2024	35.80	5.49	3.28	5,036	3.74	173.9
	11/14/2024	24.24	5.90	1.57	2,573	2.17	137.6
MW-9	9/23/2015	14.50	5.19	2.48	3,819	2.15	-35.2
	9/15/2016	13.67	4.97	2.51	3,856	1.64	111.6
	10/26/2017	14.93	5.73	--	3,020	2.85	120.5
	9/6/2018	16.56	6.16	--	3,191	1.96	94.4
	8/8/2019	25.00	5.12	1.73	3,450	--	53.5
	8/4/2020	20.20	4.90	1.65	3,240	1.12	65.1
MW-11	9/23/2015	13.82	6.37	1.88	2,895	1.71	-88.6
	9/15/2016	13.20	6.43	1.91	2,938	1.47	-73.2
	10/26/2017	14.07	6.44	--	2,271	2.55	19.7
	9/6/2018	18.46	6.70	--	2,372	0.93	9.3
	8/7/2019	18.10	7.10	1.33	8,660	--	19.6
	8/6/2020	18.80	5.54	1.25	2,490	1.83	27.9
MW-12	9/23/2015	14.31	6.00	2.36	3,630	1.65	-44.0
	9/15/2016	13.65	5.74	2.41	3,710	0.73	-148.7
	10/26/2017	14.78	6.47	--	2,932	1.56	50.0
	9/6/2018	16.56	6.45	--	3,148	5.85	16.5
	8/8/2019	22.40	6.11	1.69	3,370	--	13.0
	8/4/2020	22.10	5.42	1.59	3,190	1.13	17.2
	9/30/2021	No Parameters taken due to equipment malfunction					
	3/8/2022	13.30	5.57	--	2,660	--	--

ENSOLUM

TABLE 2
GROUNDWATER QUALITY MEASUREMENTS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Date	Temperature (°C)	pH	TDS (g/L)	Conductivity (uS/cm)	DO (mg/L)	ORP (mV)
MW-12	5/9/2022	17.70	6.21	1.32	2,640	--	--
	8/10/2022	18.50	6.15	1.24	2,510	--	--
	11/30/2022	10.90	6.31	1.22	2,440	--	--
	3/17/2023	10.70	6.87	1.24	2	--	--
	6/15/2023	14.59	7.06	--	2	7.94	-207.9
	8/2/2023	32.07	6.87	2.39	3,680	1.39	-22.1
	11/14/2023	17.45	7.13	2.53	3,898	1.98	211.9
	2/1/2024	16.03	7.40	2.27	3,492	2.31	27.0
	5/17/2024	27.17	7.48	2.55	3,927	8.66	-16.0
	8/16/2024	26.60	7.50	2.52	3,875	6.30	-6.1
	11/24/2024	20.86	7.62	1.25	1,935	1.88	-21.2
MW-15	9/23/2015	15.05	3.84	2.28	3,502	3.59	5.9
	9/15/2016	14.10	3.88	2.33	3,591	3.17	307.9
	10/26/2017	15.76	4.15	--	2,954	3.62	339.0
	9/6/2018	17.80	4.49	--	3,006	3.10	305.7
	8/8/2019	22.40	3.95	1.62	3,240	--	145.5
	8/4/2020	21.80	3.51	1.52	3,030	2.51	147.5

Notes:

°C: degrees Celcius

DO: dissolved oxygen

g/L: grams per liter

uS/cm: microsiemens per centimeter

mg/L: milligrams per liter

mV: millivolts

ORP: oxidation-reduction potential

TDS: total dissolved solids

--: data not collected

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample ID	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
NMWQCC Standards			**0.005**	**1.0**	**0.70**	**0.62**
MW-1	MW-1	10/30/1997	0.0024	0.0023	< 0.0002	0.0011
	MW-1	1/12/1998	0.0043	0.0033	0.0002	0.001
	MW-1	4/14/1998	0.001	0.0013	< 0.0005	< 0.0005
	MW-1	7/1/1998	0.0013	0.001	< 0.0005	0.0037
	MW-1	10/5/1998	< 0.001	< 0.001	< 0.001	< 0.003
	MW-1	1/27/1999	0.0008	0.0009	< 0.0005	< 0.0015
	MW-1	7/12/1999	0.0011	0.0005	< 0.0005	< 0.0005
	MW-1	9/24/2003	0.0009 J	0.001	ND	0.0004 J
	MW-1	12/15/2003	0.0011	0.0009 J	ND	ND
	MW-1	3/15/2004	ND	ND	ND	ND
	MW-1	6/21/2004	ND	ND	ND	ND
	MW-1	9/29/2004	ND	ND	ND	ND
	MW-1	12/31/2004	ND	0.0009 J	ND	0.0033 J
	MW-1	3/22/2005	ND	0.0003 J	ND	ND
	MW-1	10/24/2005	ND	ND	ND	ND
	MW-1	12/12/2005	ND	0.0007 J	ND	0.0006 J
	MW-1	3/20/2006	0.0011	0.0009 J	ND	0.0006 J
	MW-1	6/21/2006	0.0003 J	0.0014	0.0004 J	0.0018 J
	MW-1	10/18/2006	ND	0.0002	0.0002	0.0013
	MW-1	12/12/2006	ND	0.0002	0.0002	0.0014
	MW-1	3/26/2007	< 0.0003	0.0003 J	0.0002 J	0.0004 J
	MW-1	6/26/2007	< 0.0003	< 0.0002	< 0.0002	< 0.0006
	MW-1	11/8/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	MW-1	1/15/2008	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	MW-1	3/19/2008	< 0.005	< 0.005	< 0.005	< 0.005
	MW-1	7/22/2008	< 0.005	< 0.005	< 0.005	< 0.005
	MW-1	10/23/2008	< 0.005	< 0.005	< 0.005	< 0.005
	MW-1	1/21/2009	< 0.005	< 0.005	< 0.005	< 0.005
	MW-1	9/24/2009	< 0.001	< 0.001	< 0.001	< 0.001
	MW-1	9/28/2010	< 0.001	< 0.001	< 0.001	< 0.001
	GW-074927-100411-CM-002	10/4/2011	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-092612-CM-MW-1	9/26/2012	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-091813-CM-MW-1	9/18/2013	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-032414-CM-MW-1	3/24/2014	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-092414-CM-MW-1	9/24/2014	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-092315-CB-MW-1	9/23/2015	< 0.001	< 0.001	< 0.001	< 0.003
	GW-11145958-102617-CM-MW-1	10/26/2017	--	--	--	--
	GW-11145958-090618-CN-MW-1	9/6/2017	< 0.001	< 0.001	< 0.001	< 0.003
	MW-1	10/12/2018	--	--	--	--
	MW-1	8/8/2019	< 0.001	< 0.001	< 0.001	< 0.003
	MW-1	8/4/2020	< 0.001	< 0.001	< 0.001	< 0.003
MW-5	MW-5	10/29/1997	**5.934**	**10.024**	**0.709**	**8.188**
	MW-5	1/12/1998	**7.521**	**11.213**	**0.779**	**8.436**
	MW-5	4/14/1998	**7.0**	**11**	**0.72**	**7.8**
	MW-5	7/1/1998	**6.5**	**10**	**0.78**	**7.5**
	MW-5	10/5/1998	**6.8**	**8.4**	**0.74**	**6.9**
	MW-5	11/9/1998	**6.2**	**8.2**	0.67	**6.5**
	MW-5	1/27/1999	**6.4**	**8.9**	0.66	**6.7**

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample ID	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
NMWQCC Standards			0.005	1.0	0.70	0.62
MW-5	MW-5	5/5/1999	6.8	9.8	0.9	7.8
	MW-5	5/26/1999	6.6	10	0.65	8.1
	MW-5	7/12/1999	6.3	10	0.75	8.8
	MW-5	8/17/1999	5.4	9.8	0.67	7.5
	MW-5	8/17/1999	5.9	8.9	0.5	6.2
	MW-5	10/21/1999	5.2	9.6	0.65	6.9
	MW-5	1/27/2000	4.7	10	0.68	7.4
	MW-5	6/13/2000	8.4	19	1.7	22
	MW-5	3/29/2001	3.89	9.6	0.64	7.73
	MW-5	6/26/2001	3.8	11	0.7	9
	MW-5	9/18/2001	4.1	11	0.76	10
	MW-5	12/18/2001	3.2	9.7	0.6	7.8
	MW-5	3/22/2002	3.5	10	0.83	8.5
	MW-5	6/28/2002	3.7	12	0.76	10
	MW-5	9/23/2002	3.0	9.8	0.64	8.3
	MW-5	12/31/2002	2.9	8.9	0.58	7.3
	MW-5	3/27/2003	1.22	4.87	0.487	6.01
	MW-5	6/27/2003	2.04	8.55	0.64	8.05
	MW-5	9/24/2003	2.11	9.09	0.7	9.2
	MW-5	12/15/2003	2.15	9.24	0.72	8.81
	MW-5	6/21/2004	1.61	8.74	0.64	8.22
	MW-5	9/29/2004	1.71	7.25	0.67	8.09
	MW-5	12/31/2004	1.82	9.15	0.73	9.03
	MW-5	3/15/2005	1.37	8.1	0.66	8.71
	MW-5	3/22/2005	0.42	1.42	0.11	1.16
	MW-5	10/24/2005	1.07	6.66	0.61	7.62
	MW-5	12/12/2005	0.90	5.93	0.52	6.28
	MW-5	3/20/2006	0.82	6.27	0.51	6.04
	MW-5	6/21/2006	0.93	6.11	0.58	6.69
	MW-5	10/18/2006	0.69	5.14	0.5	5.87
	MW-5	12/18/2006	0.64	5.09	0.5	5.61
	MW-5	3/26/2007	0.66	6.47	0.53	5.45
	MW-5	6/26/2007	0.74	8.07	0.64	7.32
	MW-5	11/8/2007	0.41	4.8	0.39	5
	MW-5	1/17/2008	0.44	6.4	0.51	6.1
	MW-5	3/19/2008	0.37	2.9	0.24	2.57
	MW-5	7/22/2008	0.34	6.1	0.55	6.4
	MW-5	10/23/2008	0.27	6.2	0.44	6.3
	MW-5	1/21/2009	0.25	3.8	0.51	5.2
	MW-5	9/24/2009	0.19	4.3	0.47	5.1
	MW-5	9/28/2010	0.13	2.4	0.6	5.2
	GW-074927-100411-CM-006	10/12/2011	0.0652	1.22	0.443	3.21
	GW-074927-100411-CM-007	10/12/2011	0.0796	1.22	0.488	3.46
	GW-074927-092612-CM-MW-5	9/26/2012	0.0898	0.626	0.551	3.59
	GW-074927-091813-CM-MW-5	9/18/2013	0.0359	0.154	0.227	1.32
	GW-074927-092414-CM-MW-5	9/24/2014	0.0041	0.0052	0.0338	0.106
	GW-074927-092315-CB-MW-5	9/23/2015	0.015	0.0072	0.154	0.138
	GW-074927-091516-CM-MW-5	9/15/2016	0.011	0.0153	0.166	0.0414

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample ID	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
NMWQCC Standards			**0.005**	**1.0**	**0.70**	**0.62**
MW-5	GW-11145958-102617-CM-MW-5	10/26/2017	**0.0074**	0.0118	0.0563	0.0236
	GW-11145958-090618-CN-MW-5	9/6/2018	**0.0059**	0.0019	0.0346	0.0193
	MW-5	10/12/2018	--	--	--	--
	MW-5	8/7/2019	0.0025	0.0058	0.006	0.009
	MW-5	8/6/2020	**0.00537**	0.0211	0.0104	0.0635
	MW-5	9/30/2021	< 0.005	0.005	< 0.005	< 0.0075
	MW-5	3/8/2022	**Insufficient Water Volumes to Collect Sample**			
	MW-5	5/9/2022	<0.001	<0.001	<0.001	<0.0015
	MW-5	8/10/2022	0.0020	0.0050	0.0019	0.0060
	MW-5	11/30/2022	0.0038	0.0082	0.0062	0.0130
	MW-5	3/17/2023	<0.002	0.0042	<0.002	0.0019
	MW-5	6/25/2023	<0.001	0.002	<0.001	0.0069
	MW-5	8/2/2023	0.0012	0.0031	<0.001	0.0039
	MW-5	11/14/2023	0.0037	0.0086	0.0027	0.0095
	MW-5	2/1/2024	0.0034	0.0090	0.0051	0.0130
	MW-5	5/17/2024	<0.001	<0.001	<0.001	<0.0015
	MW-5	8/16/2024	0.0010	0.0024	<0.001	0.0022
	MW-5	11/14/2024	0.0010	0.0016	0.0029	0.0030
MW-7	MW-7	1/12/1998	**0.78**	0.246	0.258	**3.942**
	MW-7	4/14/1998	**0.82**	0.34	0.19	**2.45**
	MW-7	7/1/1998	**0.95**	0.44	0.2	**3.02**
	MW-7	10/5/1998	**1.6**	0.93	0.18	**1.53**
	MW-7	11/9/1998	**1.8**	1	0.16	**1.24**
	MW-7	1/27/1999	**2.1**	1	0.16	**1.05**
	MW-7	5/5/1999	**0.21**	0.0029	0.03	0.147
	MW-7	5/26/1999	**0.19**	0.0074	0.032	0.15
	MW-7	7/12/1999	**0.13**	0.0072	0.022	0.1013
	MW-7	10/21/1999	**0.26**	0.011	0.015	0.089
	MW-7	1/27/2000	**0.67**	0.58	0.054	**0.68**
	MW-7	6/17/2000	**0.42**	**1.1**	0.075	**1.4**
	MW-7	3/29/2001	**0.83**	0.15	0.32	**1.79**
	MW-7	6/26/2001	**0.54**	0.33	0.25	**1.41**
	MW-7	9/18/2001	**0.87**	0.56	0.32	**2.02**
	MW-7	12/18/2001	**0.40**	0.03	0.16	**0.885**
	MW-7	3/22/2002	**0.18**	ND	0.078	0.26
	MW-7	6/28/2002	**0.089**	0.001	0.041	0.079
	MW-7	9/23/2002	**0.08**	0.003	0.031	0.01889
	MW-7	12/31/2002	**0.16**	0.0022	0.074	0.0315
	MW-7	3/27/2003	**0.195**	0.0004	0.0442	0.109
	MW-7	6/27/2003	**0.30**	0.0014 J	0.117	0.4616
	MW-7	9/24/2003	**0.09**	0.012	0.002	**0.694**
	MW-7	3/15/2004	**0.056**	0.001 J	0.006	0.003
	MW-7	6/21/2004	**0.18**	ND	0.055	0.058 J
	MW-7	9/29/2004	**0.163**	0.0009 J	0.0545	0.0698
	MW-7	12/15/2004	**0.15**	0.004 J	0.115	0.549
	MW-7	12/31/2004	**0.094**	0.003 J	0.01	0.024 J
	MW-7	3/22/2005	**0.0208**	ND	0.0024	0.0048
	MW-7	10/24/2005	**0.0652**	0.0007 J	0.002	0.0027 J

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample ID	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
NMWQCC Standards			**0.005**	**1.0**	**0.70**	**0.62**
MW-7	MW-7	12/12/2005	**0.0662**	0.001 J	0.0087	0.0085 J
	MW-7	3/20/2006	**0.072**	ND	0.0126	0.0169
	MW-7	6/21/2006	**0.0899**	0.0106	0.0048	0.0145
	MW-7	10/18/2006	**0.0319**	0.0004 J	0.0018	0.0041
	MW-7	12/12/2006	**0.0294**	0.0015	0.0031	0.0057
	MW-7	3/26/2007	**0.0115**	0.001	0.0006 J	0.0008 J
	MW-7	6/26/2007	**0.056**	0.0004 J	0.0177	0.0013
	MW-7	11/8/2007	**0.044**	< 0.0007	0.002	< 0.0008
	MW-7	1/17/2008	**0.017**	< 0.0007	0.003	< 0.0008
	MW-7	3/19/2008	**0.005**	< 0.005	< 0.005	< 0.005
	MW-7	7/22/2008	**0.032**	< 0.005	0.012	0.007
	MW-7	10/23/2008	**0.017**	< 0.005	< 0.005	< 0.005
	MW-7	1/21/2009	< 0.005	< 0.005	< 0.005	< 0.005
	MW-7	9/24/2009	0.0037	< 0.001	< 0.001	< 0.001
	MW-7	9/28/2010	0.0013	< 0.001	0.0023	< 0.001
	MW-7	10/11/2011	**No sample collected; well dry**			
	MW-7	9/26/2012	**No sample collected; well dry**			
	MW-7	9/18/2013	**No sample collected; well dry**			
	MW-7	5/9/2014	**Well plugged and abandoned**			
MW-9	MW-9	7/1/1998	**0.012**	< 0.001	< 0.001	< 0.003
	MW-9	10/5/1998	0.0008	< 0.0005	< 0.0005	0.0022
	MW-9	11/9/1998	**0.073**	< 0.0005	0.0022	0.0016
	MW-9	1/27/1999	**0.12**	< 0.0005	0.0025	0.0018
	MW-9	5/5/1999	**0.12**	< 0.0005	0.0016	0.0008
	MW-9	5/26/1999	**0.14**	< 0.0005	0.0015	< 0.0005
	MW-9	5/26/1999	**0.29**	< 0.0005	0.0006	< 0.0015
	MW-9	7/12/1999	**0.32**	< 0.0005	0.0006	< 0.0015
	MW-9	8/17/1999	**0.13**	ND	ND	ND
	MW-9	10/21/1999	< 0.0005	0.0019	< 0.0005	0.0025
	MW-9	1/27/2000	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	MW-9	6/13/2000	< 0.0005	< 0.0005	< 0.0005	< 0.001
	MW-9	3/29/2001	< 0.0005	< 0.0005	< 0.0005	< 0.001
	MW-9	6/26/2001	< 0.0005	< 0.0005	< 0.0005	< 0.001
	MW-9	9/18/2001	ND	ND	ND	ND
	MW-9	12/18/2001	ND	ND	ND	ND
	MW-9	3/22/2002	ND	ND	ND	ND
	MW-9	6/28/2002	ND	ND	ND	ND
	MW-9	9/23/2002	0.0004 J	ND	ND	ND
	MW-9	3/27/2003	ND	ND	ND	ND
	MW-9	6/27/2003	0.0005 J	ND	ND	ND
	MW-9	9/24/2003	ND	ND	ND	ND
	MW-9	12/15/2003	ND	ND	ND	ND
	MW-9	3/15/2004	ND	ND	ND	ND
	MW-9	6/21/2004	ND	0.0004 J	ND	0.0007 J
	MW-9	9/29/2004	ND	ND	ND	ND
	MW-9	3/22/2005	ND	ND	ND	ND
	MW-9	6/23/2005	ND	0.0003 J	ND	ND
	MW-9	3/20/2006	ND	ND	ND	ND

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample ID	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
NMWQCC Standards			**0.005**	**1.0**	**0.70**	**0.62**
MW-9	MW-9	6/21/2006	ND	ND	ND	ND
	MW-9	10/18/2006	ND	ND	ND	0.0003 J
	MW-9	12/12/2006	0.0003 J	0.0007 J	0.0003 J	0.0012 J
	MW-9	3/26/2007	< 0.0003	< 0.0002	< 0.0002	< 0.0006
	MW-9	6/26/2007	< 0.0003	< 0.0002	< 0.0002	< 0.0006
	MW-9	11/8/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	MW-9	1/17/2008	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	MW-9	3/19/2008	< 0.005	< 0.005	< 0.005	< 0.005
	MW-9	7/22/2008	< 0.005	< 0.005	< 0.005	< 0.005
	MW-9	10/23/2008	< 0.005	< 0.005	< 0.005	< 0.005
	MW-9	1/21/2009	< 0.005	< 0.005	< 0.005	< 0.005
	MW-9	9/24/2009	< 0.001	< 0.001	< 0.001	< 0.001
	MW-9	9/28/2010	< 0.001	< 0.001	< 0.001	< 0.001
	GW-074927-100411-CM-004	10/4/2011	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-092612-CM-MW-9	9/26/2012	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-091813-CM-MW-9	9/18/2013	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-092414-CM-MW-9	9/24/2014	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-092315-CB-MW-9	9/23/2015	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-091516-CM-MW-9	9/15/2016	< 0.001	< 0.001	< 0.001	< 0.003
	GW-11145958-102617-CM-MW-9	10/26/2017	< 0.001	< 0.001	< 0.001	< 0.003
	GW-11145958-090618-CN-MW-9	9/6/2018	< 0.001	< 0.001	< 0.001	< 0.003
	MW-9	10/12/2018	--	--	--	--
	MW-9	8/8/2019	< 0.001	< 0.001	< 0.001	< 0.003
	MW-9	8/4/2020	< 0.001	< 0.001	< 0.001	< 0.003
MW-11	MW-11	1/27/1999	< 0.0005	0.0025	0.0007	0.0131
	MW-11	5/5/1999	< 0.0005	< 0.0005	< 0.0005	< 0.0015
	MW-11	5/26/1999	0.0008	0.0017	< 0.0005	0.0011
	MW-11	10/21/1999	< 0.0005	< 0.0005	< 0.0005	< 0.0015
	MW-11	1/27/2000	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	MW-11	6/13/2000	< 0.0005	< 0.0005	< 0.0005	0.0009
	MW-11	3/29/2001	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	MW-11	6/26/2001	< 0.0005	< 0.0005	< 0.0005	< 0.001
	MW-11	9/18/2001	< 0.0005	< 0.0005	< 0.0005	< 0.001
	MW-11	12/18/2001	< 0.0005	< 0.0005	< 0.0005	< 0.001
	MW-11	12/19/2001	ND	ND	ND	ND
	MW-11	12/20/2001	ND	ND	ND	ND
	MW-11	12/21/2001	ND	ND	ND	ND
	MW-11	12/22/2001	ND	ND	ND	ND
	MW-11	5/24/2003	ND	ND	ND	ND
	MW-11	6/27/2003	0.0004 J	0.0003 J	ND	0.0004 J
	MW-11	9/24/2003	ND	ND	ND	ND
	MW-11	12/15/2003	0.0005 J	ND	ND	ND
	MW-11	3/15/2004	ND	ND	ND	ND
	MW-11	6/21/2004	ND	ND	ND	0.0005 J
	MW-11	9/29/2004	ND	ND	ND	ND
	MW-11	12/31/2004	ND	ND	ND	ND
	MW-11	3/22/2005	ND	ND	ND	ND
	MW-11	10/24/2005	ND	ND	ND	ND

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample ID	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
NMWQCC Standards			**0.005**	**1.0**	**0.70**	**0.62**
MW-11	MW-11	12/12/2005	ND	0.0003 J	ND	ND
	MW-11	3/20/2006	ND	ND	ND	ND
	MW-11	6/21/2006	ND	0.0003 J	ND	0.0008 J
	MW-11	10/18/2006	ND	0.0003 J	0.0004 J	0.0012 J
	MW-11	12/12/2006	ND	ND	ND	0.0003 J
	MW-11	3/26/2007	< 0.0003	< 0.0002	< 0.0002	< 0.0006
	MW-11	6/26/2007	< 0.0003	< 0.0002	< 0.0002	< 0.0006
	MW-11	11/8/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	MW-11	1/17/2008	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	MW-11	3/19/2008	< 0.005	< 0.005	< 0.005	< 0.005
	MW-11	7/22/2008	< 0.005	< 0.005	< 0.005	< 0.005
	MW-11	10/23/2008	< 0.005	< 0.005	< 0.005	< 0.005
	MW-11	1/21/2009	< 0.005	< 0.005	< 0.005	< 0.005
	MW-11	9/24/2009	< 0.001	< 0.001	< 0.001	< 0.001
	MW-11	9/28/2010	< 0.001	< 0.001	< 0.001	< 0.001
	GW-074927-100411-CM-005	10/11/2011	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-092612-CM-MW-11	9/26/2012	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-091813-CM-MW-11	9/18/2013	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-092414-CM-MW-11	9/24/2014	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-092315-CB-MW-11	9/23/2015	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-091516-CM-MW-11	9/15/2016	< 0.001	< 0.001	< 0.001	< 0.003
	GW-11145958-102617-CM-MW-11	10/26/2017	--	--	--	--
	GW-11145958-090618-CN-MW-11	9/6/2018	< 0.001	< 0.001	< 0.001	< 0.003
	MW-11	10/12/2018	--	--	--	--
	MW-11	8/7/2019	< 0.001	< 0.001	< 0.001	< 0.003
	MW-11	8/6/2020	< 0.001	< 0.001	< 0.001	< 0.003
MW-12	MW-12	5/5/1999	**0.79**	0.84	0.26	**2.88**
	MW-12	5/5/1999	**1.2**	**13**	0.51	**0.68**
	MW-12	5/26/1999	**1.9**	0.82	0.2	**1.72**
	MW-12	5/26/1999	**1.8**	0.64	0.16	**1.6**
	MW-12	7/12/1999	**4.5**	0.76	0.4	**3.1**
	MW-12	7/12/1999	**4.6**	0.73	0.39	**3.08**
	MW-12	8/17/1999	**4.8**	**5**	0.32	**3.39**
	MW-12	8/17/1999	**5.9**	**6.1**	0.39	**4.1**
	MW-12	10/21/1999	**5.6**	0.65	0.54	**2.89**
	MW-12	1/27/2000	**4.1**	0.55	0.43	**2.379**
	MW-12	6/13/2000	**5**	**1.3**	0.49	**2.7**
	MW-12	3/29/2001	**5.17**	**1.79**	0.366	**2.62**
	MW-12	6/26/2001	**4.8**	**1.9**	0.39	**2.56**
	MW-12	9/18/2001	**5.1**	**2.4**	0.43	**2.82**
	MW-12	12/18/2001	**4**	**1.5**	0.32	**1.88**
	MW-12	3/22/2002	**3.3**	0.93	0.29	**1.27**
	MW-12	6/28/2002	**4.2**	**1.8**	0.41	**1.94**
	MW-12	9/23/2002	**3.8**	**1.5**	0.31	**1.51**
	MW-12	12/31/2002	**3.6**	0.84	0.28	**1.01**
	MW-12	5/24/2003	**3.99**	**2.23**	0.299	**1.47**
	MW-12	6/27/2003	**5.29**	**2.75**	0.36	**1.6**
	MW-12	9/24/2003	**4.6**	**1.69**	0.29	**1.15**

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample ID	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
NMWQCC Standards			**0.005**	**1.0**	**0.70**	**0.62**
MW-12	MW-12	12/15/2003	**4.2**	**1.36**	0.24	**1.15**
	MW-12	3/15/2004	**2.09**	**1.12**	0.3	**1.25**
	MW-12	6/21/2004	**3.87**	**1.82**	0.28	**1.5**
	MW-12	6/29/2004	**5.14**	**2.22**	0.24	**1.28**
	MW-12	12/31/2004	**4.16**	**1.22**	0.25	**1.15**
	MW-12	3/22/2005	**2.38**	**1.1**	0.13	**0.71**
	MW-12	10/24/2005	**1.35**	0.15	0.08	0.33
	MW-12	12/16/2005	**2.38**	0.422	0.111	0.341
	MW-12	3/20/2006	**2.1**	0.21	0.071	0.225
	MW-12	6/21/2006	**2.27**	0.385	0.085	0.355
	MW-12	10/18/2006	**1.74**	0.477	0.112	0.399
	MW-12	12/12/2006	**2.4**	**1.11**	0.142	**0.668**
	MW-12	3/26/2007	**4.13**	**1.68**	0.34	**1.18**
	MW-12	6/26/2007	**1.52**	0.432	0.118	0.34
	MW-12	11/8/2007	**0.78**	0.31	0.043	0.17
	MW-12	1/17/2008	**2**	**1.4**	0.18	**0.79**
	MW-12	3/19/2008	**1.6**	0.56	0.16	0.53
	MW-12	7/22/2008	**0.73**	0.022	0.014	0.021
	MW-12	10/23/2008	**0.5**	0.03	0.022	0.04
	MW-12	1/21/2009	**1.1**	0.43	0.11	0.41
	MW-12	9/24/2009	**0.61**	0.0083	0.01	0.0195
	MW-12	9/28/2010	**0.55**	< 0.001	0.015	0.016
	GW-074927-100411-CM-003	10/4/2011	**0.494**	< 0.01	0.0235	< 0.03
	GW-074927-092612-CM-MW-12	9/26/2012	**0.617**	<0.001	0.015	0.0207
	GW-074927-091813-CM-MW-12	9/18/2013	**0.202**	<0.005	<0.005	<0.015
	GW-074927-091813-CM-DUP	9/18/2013	**0.21**	<0.005	<0.005	<0.015
	GW-074927-032414-CM-MW-12	3/24/2014	**0.0559**	0.0067	<0.005	<0.015
	GW-074927-032414-CM-DUP	3/24/2014	**0.0508**	0.0056	<0.005	<0.015
	GW-074927-092414-CM-MW-12	9/24/2014	**0.83**	0.0013	0.011	0.0171
	GW-074927-092414-CM-DUP	9/24/2014	**0.882**	0.0015	0.0121	0.0179
	GW-074927-092315-CB-MW-12	9/23/2015	**0.246**	< 0.001	< 0.001	< 0.003
	GW-074927-092315-CB-MW-12	9/23/2015	**0.258**	< 0.001	< 0.001	< 0.003
	GW-074927-091516-CM-MW-12	9/15/2016	**0.0568**	< 0.0005	< 0.0005	< 0.015
	GW-11145958-102617-CM-MW-12	10/26/2017	**0.0379**	<0.002	<0.002	<0.006
	GW-11145958-102617-CM-DUP	10/26/2017	**0.0447**	<0.001	<0.001	<0.003
	GW-11145958-090618-CN-MW-12	9/6/2018	0.0022	<0.001	<0.001	<0.003
MW-12	MW-12	10/12/2018	--	--	--	--
	MW-12	8/8/2019	**0.0708**	<0.0200	<0.0200	<0.0600
	MW-12	8/4/2020	0.00434	<0.0010	<0.0010	<0.003
	MW-12	9/30/2021	<0.005	< 0.005	< 0.005	< 0.0075
	MW-12	3/8/2022	<0.005	< 0.005	< 0.005	< 0.0075
	MW-12	5/9/2022	<0.001	0.0024	<0.001	0.0073
	MW-12	8/10/2022	<0.002	<0.002	<0.002	<0.003
	MW-12	11/30/2022	<0.001	0.0011	<0.001	0.0043
	MW-12	3/17/2023	<0.002	0.004	<0.002	0.0023
	MW-12	6/15/2023	0.0038	<0.001	<0.001	<0.002
	MW-12	8/2/2023	0.0012	0.0031	<0.001	0.0039
	MW-12	11/14/2023	0.0100	<0.002	<0.002	<0.003

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample ID	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
NMWQCC Standards			**0.005**	**1.0**	**0.70**	**0.62**
MW-12	MW-12	2/1/2024	<0.001	<0.001	<0.001	<0.0015
	MW-12	5/17/2024	<0.002	<0.002	<0.002	<0.003
	MW-12	8/16/2024	<0.001	<0.001	<0.001	<0.0015
	MW-12	11/14/2024	<0.001	<0.001	<0.001	0.0017
MW-15	MW-15	10/21/1999	< 0.0005	0.0012	< 0.0005	0.0015
	MW-15	1/27/2000	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	MW-15	6/13/2000	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	MW-15	3/29/2001	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	MW-15	6/26/2001	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	MW-15	9/18/2001	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	MW-15	12/18/2001	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	MW-15	3/22/2002	ND	ND	ND	ND
	MW-15	6/28/2002	ND	ND	ND	ND
	MW-15	9/23/2002	ND	ND	ND	ND
	MW-15	12/31/2002	ND	ND	ND	ND
	MW-15	3/27/2003	ND	0.0003 J	ND	0.0009 J
	MW-15	6/27/2003	0.0004 J	ND	ND	ND
	MW-15	9/24/2003	ND	ND	ND	ND
	MW-15	3/15/2004	ND	0.0003 J	ND	ND
	MW-15	6/21/2004	ND	ND	ND	ND
	MW-15	9/29/2004	ND	ND	ND	ND
	MW-15	12/15/2004	0.0007 J	ND	ND	ND
	MW-15	12/31/2004	ND	0.0009 J	0.0003 J	0.0014 J
	MW-15	3/22/2005	ND	ND	ND	ND
	MW-15	10/24/2005	ND	ND	ND	ND
	MW-15	12/12/2005	ND	0.0003 J	ND	0.0004 J
	MW-15	3/20/2006	ND	ND	ND	ND
	MW-15	6/21/2006	0.0007 J	ND	0.0003 J	ND
	MW-15	10/18/2006	ND	0.0003 J	ND	0.0002 J
	MW-15	12/12/2006	ND	ND	ND	ND
	MW-15	3/26/2007	< 0.0003	< 0.0002	< 0.0002	< 0.0006
	MW-15	6/26/2007	< 0.0003	0.0005 J	< 0.0002	< 0.0006
	MW-15	11/8/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	MW-15	1/17/2008	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	MW-15	3/19/2008	< 0.005	< 0.005	< 0.005	< 0.005
	MW-15	7/22/2008	< 0.005	< 0.005	< 0.005	< 0.005
	MW-15	10/23/2008	< 0.005	< 0.005	< 0.005	< 0.005
	MW-15	1/21/2009	< 0.005	< 0.005	< 0.005	< 0.005
	MW-15	9/24/2009	< 0.001	< 0.001	< 0.001	< 0.001
	MW-15	9/28/2010	< 0.001	< 0.001	< 0.001	< 0.001
	GW-074927-100411-CM-001	10/4/2011	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-092612-CM-MW-15	9/26/2012	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-091813-CM-MW-15	9/18/2013	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-092414-CM-MW-15	9/24/2014	< 0.001	< 0.001	< 0.001	< 0.003
	GW-074927-092315-CB-MW-15	9/23/2015	< 0.001	< 0.001	< 0.001	< 0.003
	GW074927-091516-CM-MW-15	9/15/0216	< 0.001	< 0.001	< 0.001	< 0.003
	GW-11145958-102617-CM-MW-15	10/26/2017	--	--	--	--
	GW-11145958-090618-CN-MW-15	9/6/2018	< 0.001	< 0.001	< 0.001	< 0.003

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample ID	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
NMWQCC Standards			**0.005**	**1.0**	**0.70**	**0.62**
MW-15	MW-15	10/12/2018	--	--	--	--
	MW-15	8/8/2019	< 0.001	< 0.001	< 0.001	< 0.003
	MW-15	8/4/2020	< 0.001	< 0.001	< 0.001	< 0.003
MW-16	MW-16	10/21/1999	**0.22**	0.3	0.0054	0.142
	MW-16	10/21/1999	**0.214**	0.268	0.004	0.151
	MW-16	1/27/2000	**1.6**	0.17	0.056	0.225
	MW-16	6/13/2000	**8.7**	0.43	0.68	**2.2**
	MW-16	6/26/2001	**9.3**	**1.1**	**0.81**	**3.41**
	MW-16	9/18/2001	**11**	**6.4**	0.59	**6.4**
	MW-16	12/18/2001	**9.9**	**6.9**	0.57	**7.4**
	MW-16	6/28/2002	**11**	**7**	**0.77**	**5.7**
	MW-16	9/23/2002	**8.9**	**9.9**	0.61	**8.5**
	MW-16	12/31/2002	**8.8**	**7.9**	**0.77**	**7.4**
	MW-16	3/22/2003	**10**	**6.6**	**1.1**	**7.4**
	MW-16	3/27/2003	**10.4**	**11.2**	**0.84**	**8.67**
	MW-16	9/24/2003	**10.3**	**15.4**	**0.87**	**10.59**
	MW-16	3/15/2004	**9.2**	**16**	**1.31**	**12**
	MW-16	6/21/2004	**8.04**	**18.1**	**2.45**	**18.58**
	MW-16	9/29/2004	**8.33**	**14**	**0.76**	**8.23**
	MW-16	12/15/2004	**9.64**	**12.6**	**0.72**	**1.55**
	MW-16	12/31/2004	**8.34**	**17.1**	**1.55**	**18.83**
	MW-16	3/28/2005	**4.14**	**5.81**	**0.76**	**10.48**
	MW-16	10/24/2005	**6.28**	**9.8**	0.67	**6.91**
	MW-16	12/12/2005	**6.94**	**11.5**	**0.75**	**8.06**
	MW-16	3/20/2006	**6.82**	**11.5**	**0.83**	**8.55**
	MW-16	6/21/2006	**6.64**	**11.2**	0.69	**7.57**
	MW-16	10/18/2006	**5.7**	**10.2**	0.62	**6.52**
	MW-16	12/12/2006	**4.6**	**10**	0.55	**6.83**
	MW-16	3/26/2007	**2.97**	**2.82**	0.26	**5.22**
	MW-16	6/26/2007	**5.23**	**9.11**	**0.77**	**7.76**
	MW-16	11/8/2007	**5.5**	**12**	0.57	**6.2**
	MW-16	1/17/2008	**4.6**	**9.1**	0.55	**5.6**
	MW-16	3/19/2008	**5.5**	**9.6**	0.51	**6.9**
	MW-16	7/22/2008	**3.6**	**6.1**	0.43	**4.5**
	MW-16	10/23/2008	**4.7**	**9.1**	0.48	**6.6**
	MW-16	1/21/2009	**4.2**	**7.5**	0.48 J	**6.9**
	MW-16	9/24/2009	**3.2**	**4.6**	0.34	**3.5**
	MW-16	9/29/2010	**3.0**	**4.6**	**3.4**	**23.6**
	MW-16	12/15/2010	**5.2**	**13**	**1.1**	**14.5**
	MW-16	10/11/2011	**No sample collected due to presence of LNAPL**			
	MW-16	9/26/2012	**No sample collected due to presence of LNAPL**			
	MW-16	9/18/2013	**No sample collected due to presence of LNAPL**			
	MW-16	9/24/2014	**No sample collected due to presence of LNAPL**			
	MW-16	9/23/2015	**No sample collected due to presence of LNAPL**			
	MW-16	9/15/0216	**No sample collected due to presence of LNAPL**			
	MW-16	10/26/2017	**No sample collected due to presence of LNAPL**			
	MW-16	9/6/2018	**No sample collected due to presence of LNAPL**			
	MW-16	8/8/2019	**No sample collected due to presence of LNAPL**			

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample ID	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
NMWQCC Standards			0.005	1.0	0.70	0.62
MW-16	MW-16	8/4/2020	No sample collected due to presence of LNAPL			
	MW-16	9/30/2021	No sample collected due to presence of LNAPL			
	MW-16	3/8/2022	No sample collected due to presence of LNAPL			
	MW-16	5/9/2022	No sample collected due to presence of LNAPL			
	MW-16	8/10/2022	No sample collected due to presence of LNAPL			
	MW-16	11/30/2022	No sample collected due to presence of LNAPL			
Seep	Seep	7/1/1998	0.0016	0.0007	0.0006	0.00036
	Seep	4/14/1999	**0.04**	0.0022	0.0021	0.019
	Seep	10/21/1999	**0.065**	0.23	0.011	0.434
	Seep	3/29/2001	**0.0116**	< 0.0002	0.0007 J	0.0254
	Seep	6/26/2001	< 0.0005	< 0.0005	< 0.0005	< 0.001
	Seep	9/18/2001	< 0.0005	< 0.0005	< 0.0005	< 0.001
	Seep	12/18/2001	< 0.0005	< 0.0005	< 0.0005	< 0.001
	Seep	3/22/2002	**0.0059**	ND	0.0008	0.0034
	Seep	6/28/2002	ND	ND	ND	ND
	Seep	9/23/2002	ND	ND	ND	ND
	Seep	12/31/2002	0.0007	ND	ND	ND
	Seep	3/27/2003	**0.0063**	0.0002 J	0.0018	0.0101
	Seep	9/24/2003	ND	0.0003 J	ND	ND
	Seep	12/15/2003	0.0004 J	0.0003 J	ND	ND
	Seep	3/15/2004	ND	ND	ND	ND
	Seep	6/21/2004	ND	ND	ND	ND
	Seep	9/29/2004	ND	ND	ND	ND
	Seep	12/31/2004	ND	0.0002 J	ND	0.0004 J
	Seep	3/28/2005	ND	ND	ND	ND
	Seep	10/24/2005	ND	J	ND	ND
	Seep	12/12/2005	ND	0.0005 J	0.0003 J	0.0009 J
	Seep	3/20/2006	ND	ND	ND	ND
	Seep	6/21/2006	0.004	0.0129	0.0008 J	0.015
	Seep	10/18/2006	ND	0.0005 J	0.0003 J	0.0014 J
	Seep	12/12/2006	ND	ND	ND	ND
	Seep	3/26/2007	< 0.0003	0.0003 J	< 0.0002	< 0.0006
	Seep	6/26/2007	< 0.0003	< 0.0002	< 0.0002	< 0.0006
	Seep	11/8/2007	< 0.0005	< 0.0007	< 0.0008	< 0.0008
	Seep	3/19/2008	< 0.005	< 0.005	< 0.005	< 0.005
	Seep	10/23/2008	< 0.005	< 0.005	< 0.005	< 0.005
	Seep	1/21/2009	< 0.005	< 0.005	< 0.005	< 0.005
	Seep	9/24/2009	< 0.001	< 0.001	< 0.001	< 0.001
	Seep	9/28/2010	< 0.001	< 0.001	< 0.001	< 0.001
	Seep	10/11/2011	No sample collected; seep dry			
	Seep	9/26/2012	No sample collected; seep dry			
	Seep	9/18/2013	No sample collected; seep dry			
	Seep	9/24/2014	No sample collected; seep dry			
	Seep	9/23/2015	No sample collected; seep dry			
TMW-1	TMW-1	1/27/2000	**0.93**	**1.4**	0.35	**6.7**
	TMW-1	6/13/2000	**2.4**	**3.4**	0.55	**9.1**
	TMW-1	6/26/2001	**1.1**	**3.5**	0.33	**5.5**
	TMW-1	5/23/2003	**0.83**	0.123	0.107	**1.0**

ENSOLUM

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Sample ID	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)
NMWQCC Standards			**0.005**	**1.0**	**0.70**	**0.62**
TMW-1	TMW-1	6/27/2003	**0.474**	0.0366	0.0596	0.491
	TMW-1	9/24/2003	**0.292**	0.139	0.017	0.221
	TMW-1	12/15/2003	**0.0559**	0.0013	0.0039	0.0425
	TMW-1	6/21/2004	**0.0406**	ND	0.0141	0.0147
	TMW-1	9/29/2004	**0.41**	0.0087	0.0596	0.459
	TMW-1	12/31/2004	0.003 J	0.005 J	0.001 J	0.011 J
	TMW-1	3/22/2005	**0.0678**	0.0133	0.0081	0.102
	TMW-1	10/24/2005	**0.483**	0.705	0.045	0.328
	TMW-1	12/12/2005	**0.122**	0.317	0.019	0.16
	TMW-1	3/20/2006	**0.071**	0.082	0.016	0.151
	TMW-1	6/21/2006	**0.159**	0.0657	0.0569	0.36
	TMW-1	10/18/2006	**0.0064**	0.0016	0.0021	0.0138
	TMW-1	6/26/2007	**0.269**	0.0026	0.0049	0.0157
	TMW-1	11/8/2007	**0.3**	0.012	0.006	0.038
	TMW-1	1/17/2008	0.0008	< 0.0007	< 0.0008	0.001
	TMW-1	3/19/2008	< 0.005	< 0.005	< 0.005	< 0.005
	TMW-1	7/22/2008	**0.13**	0.029	0.011	0.022
	TMW-1	1/21/2009	**0.013**	< 0.005	< 0.005	< 0.005
	TMW-1	9/28/2010	**0.013**	< 0.001	< 0.001	0.0032
	TMW-1	10/11/2011	**No sample collected; insufficient water present in well**			
	TMW-1	9/26/2012	**No sample collected; well dry**			
	TMW-1	9/18/2013	**No sample collected; well dry**			
	TMW-1	9/24/2014	**No sample collected; well dry**			
	TMW-1	9/23/2015	**No sample collected; well dry**			
	TMW-1	9/15/0216	**No sample collected; well dry**			
	TMW-1	10/26/2017	**No sample collected; well dry**			
	TMW-1	9/6/2018	**No sample collected; well dry**			
	TMW-1	8/8/2019	**No sample collected; well dry**			
	TMW-1	8/4/2020	**No sample collected; well dry**			

Notes:

mg/L: milligrams per liter

J: The target analyte was positively identified below the quantitation limit and above the detection limit.

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 (PQL)

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

ENSOLUM

TABLE 4
PSH RECOVERY
Hampton #4M
Hilcorp Energy Company
San Juan County, New Mexico

Well Identification	Date	Product Removed (ounces)
MW-16	1/22/2019	6
	2/15/2019	10
	4/5/2019	28
	8/8/2019	32
	11/7/2019	24
	3/27/2020	16
	5/29/2020	26
	8/5/2020	176
	10/9/2020	12
	9/30/2021	12
	3/8/2022	32
	5/9/2022	1
	8/10/2022	1
	11/30/2022	4
	3/17/2023	5
	6/15/2023	64
	8/2/2023	8
	11/14/2023	0
	2/1/2024	0
	5/17/2024	0
	8/16/2024	0
	11/14/2024	3

Notes:

PSH removed using an adsorbent sock and/or disposable bailer

ENSOLUM

APPENDIX A

Laboratory Analytical Reports

eurofins | Environment Testing

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

February 14, 2024

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

RE: Hampton 4M OrderNo.: 2402083

Dear Kate Kaufman:

Eurofins Environment Testing South Central, LLC received 2 sample(s) on 2/2/2024 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2402083**
Date Reported: **2/14/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** MW-5
Project: Hampton 4M **Collection Date:** 2/1/2024 1:30:00 PM
Lab ID: 2402083-001 **Matrix:** AQUEOUS **Received Date:** 2/2/2024 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **CCM**
Benzene	3.4	1.0		µg/L	1	2/8/2024 8:51:00 PM
Toluene	9.0	1.0		µg/L	1	2/8/2024 8:51:00 PM
Ethylbenzene	5.1	1.0		µg/L	1	2/8/2024 8:51:00 PM
Xylenes, Total	13	1.5		µg/L	1	2/8/2024 8:51:00 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/8/2024 8:51:00 PM
Surr: Dibromofluoromethane	103	70-130		%Rec	1	2/8/2024 8:51:00 PM
Surr: Toluene-d8	98.4	70-130		%Rec	1	2/8/2024 8:51:00 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2402083**
Date Reported: **2/14/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: MW-12
Project: Hampton 4M
Collection Date: 2/1/2024 1:00:00 PM
Lab ID: 2402083-002 **Matrix:** AQUEOUS **Received Date:** 2/2/2024 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **CCM**
Benzene	ND	1.0		µg/L	1	2/8/2024 9:15:00 PM
Toluene	ND	1.0		µg/L	1	2/8/2024 9:15:00 PM
Ethylbenzene	ND	1.0		µg/L	1	2/8/2024 9:15:00 PM
Xylenes, Total	ND	1.5		µg/L	1	2/8/2024 9:15:00 PM
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	2/8/2024 9:15:00 PM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	2/8/2024 9:15:00 PM
Surr: Toluene-d8	94.3	70-130		%Rec	1	2/8/2024 9:15:00 PM

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2402083**

14-Feb-24

Client: HILCORP ENERGY

Project: Hampton 4M

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSW**	Batch ID: **SL102973**	RunNo: **102973**
Prep Date:	Analysis Date: **2/8/2024**	SeqNo: **3805704** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.4	70	130			
Toluene	18	1.0	20.00	0	89.0	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.6		10.00		95.7	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBW**	Batch ID: **SL102973**	RunNo: **102973**
Prep Date:	Analysis Date: **2/8/2024**	SeqNo: **3805705** 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		109	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.4	70	130			
Surr: Dibromofluoromethane	10		10.00		105	70	130			
Surr: Toluene-d8	9.4		10.00		93.5	70	130			

Qualifiers:

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

eurofins | Environment Testing

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

Sample Log-In Check List

Client Name: HILCORP ENERGY Work Order Number: 2402083 RcptNo: 1

Received By: Tracy Casarrubias 2/2/2024 6:30:00 AM

Completed By: Tracy Casarrubias 2/2/2024 7:50:24 AM

Reviewed By: 2/2/24

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)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: 2/2/24

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes	Morty		

Chain-of-Custody Record

Client: Hilcorp Farmington NM

Mailing Address: 382 Road 3100 Aztec, NM 87410

Billing Address: PO Box 61529 Houston, TX 77208

Phone #: 505-486-9543

email or Fax#: Brandon.Sinclair@hilcorp.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:

X Standard ☐ Rush_____

Project Name:

Hampton 4M

Project #:

Project Manager:

Kate Kaufman

Sampler: Brandon Sinclair

On Ice: ☒ Yes ☐ No mordy

# of Coolers: 1

Cooler Temp(Including CF): 1.7 ± 0 = 1.7 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2402083	BTEX Method 8260
2-1	1330	Water	MW-5	(3) 40ml VOA	HCL	001	X
2-1	1300	Water	MW-12	(3) 40ml VOA	HCL	002	X
		~~Water~~	~~MW-16~~	~~(3) 40ml VOA~~	~~HCL~~		~~X~~ cu

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2-1	1640				2/1/24	1640
2/1/24	1719			courier	2/2/24	6:30

Remarks: Special Pricing See Andy

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.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/29/2024 2:29:11 PM

JOB DESCRIPTION

Hampton 4M

JOB NUMBER

885-4837-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

Generated
5/29/2024 2:29:11 PM

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

Client: Hilcorp Energy
Project/Site: Hampton 4M

Laboratory Job ID: 885-4837-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-4837-1

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: Hampton 4M

Job ID: 885-4837-1

Job ID: 885-4837-1 Eurofins Albuquerque

Job Narrative
885-4837-1

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 5/21/2024 7:25 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 2.5°C.

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

Client Sample Results

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-4837-1

Client Sample ID: MW-5
Date Collected: 05/17/24 13:40
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4837-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			05/28/24 19:19	1
Ethylbenzene	ND		1.0		ug/L			05/28/24 19:19	1
Toluene	ND		1.0		ug/L			05/28/24 19:19	1
Xylenes, Total	ND		1.5		ug/L			05/28/24 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*05/28/24 19:19*	*1*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*05/28/24 19:19*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*05/28/24 19:19*	*1*
Toluene-d8 (Surr)	*82*		*70 - 130*		*05/28/24 19:19*	*1*

Client Sample Results

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-4837-1

Client Sample ID: MW-12
Date Collected: 05/17/24 13:15
Date Received: 05/21/24 07:25

Lab Sample ID: 885-4837-2
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		ug/L			05/28/24 19:47	2
Ethylbenzene	ND		2.0		ug/L			05/28/24 19:47	2
Toluene	ND		2.0		ug/L			05/28/24 19:47	2
Xylenes, Total	ND		3.0		ug/L			05/28/24 19:47	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*05/28/24 19:47*	*2*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*		*05/28/24 19:47*	*2*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*05/28/24 19:47*	*2*
Toluene-d8 (Surr)	*82*		*70 - 130*		*05/28/24 19:47*	*2*

QC Sample Results

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-4837-1

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

Lab Sample ID: MB 885-5762/3
Matrix: Water
Analysis Batch: 5762

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			05/28/24 10:45	1
Ethylbenzene	ND		1.0		ug/L			05/28/24 10:45	1
Toluene	ND		1.0		ug/L			05/28/24 10:45	1
Xylenes, Total	ND		1.5		ug/L			05/28/24 10:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*05/28/24 10:45*	*1*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*05/28/24 10:45*	*1*
Dibromofluoromethane (Surr)	*85*		*70 - 130*		*05/28/24 10:45*	*1*
Toluene-d8 (Surr)	*84*		*70 - 130*		*05/28/24 10:45*	*1*

Lab Sample ID: LCS 885-5762/2
Matrix: Water
Analysis Batch: 5762

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			20.1	18.9		ug/L		94	70 - 130		
Toluene			20.2	17.7		ug/L		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
Dibromofluoromethane (Surr)	*86*		*70 - 130*
Toluene-d8 (Surr)	*85*		*70 - 130*

QC Association Summary

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-4837-1

GC/MS VOA

Analysis Batch: 5762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-4837-1	MW-5	Total/NA	Water	8260B	
885-4837-2	MW-12	Total/NA	Water	8260B	
MB 885-5762/3	Method Blank	Total/NA	Water	8260B	
LCS 885-5762/2	Lab Control Sample	Total/NA	Water	8260B	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-4837-1

Client Sample ID: MW-5

Lab Sample ID: 885-4837-1

Date Collected: 05/17/24 13:40

Matrix: Water

Date Received: 05/21/24 07:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	5762	JR	EET ALB	05/28/24 19:19

Client Sample ID: MW-12

Lab Sample ID: 885-4837-2

Date Collected: 05/17/24 13:15

Matrix: Water

Date Received: 05/21/24 07:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	5762	JR	EET ALB	05/28/24 19:47

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-4837-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Benzene
8260B		Water	Ethylbenzene
8260B		Water	Toluene
8260B		Water	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: Hilcorp Farmington NM

Mailing Address: 382 Road 3100 Aztec, NM 87410

Billing Address: PO Box 61529 Houston, TX 77208

Phone #: 505-486-9543

email or Fax#: Brandon.Sinclair@hilcorp.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
X Standard ☐ Rush

Project Name: Hampton 4M

Project #:

Project Manager: Kate Kaufman

Sampler: Brandon Sinclair

On Ice: ☒ Yes ☐ No yogi

# of Coolers: 1

Cooler Temp(including CF): 2.4 + 0.1 = 2.5 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87
Tel. 505-345-3975 Fax 505-345-4107

885-4837 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX Method 8260
5-17	1340	Water	MW-5	(3) 40ml VOA	HCL	1	X
5-17	1315	Water	MW-12	(3) 40ml VOA	HCL	2	X
		~~Water~~	~~MW-16~~	~~(3) 40ml VOA~~	~~HCL~~		~~X~~ (initials)

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/20/24	1645	(signature)	Clint Walt		5/20/24	1645
5/20/24	1740	Christian Walls	(signature)	courier	5/21/24	7:25

Remarks: Special Pricing See Andy

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.

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-4837-1

Login Number: 4837 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/28/2024 4:07:33 PM

JOB DESCRIPTION

Hampton 4M

JOB NUMBER

885-10331-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

Generated
8/28/2024 4:07:33 PM

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

Client: Hilcorp Energy
Project/Site: Hampton 4M

Laboratory Job ID: 885-10331-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-10331-1

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: Hampton 4M

Job ID: 885-10331-1

Job ID: 885-10331-1 Eurofins Albuquerque

Job Narrative
885-10331-1

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

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

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

Receipt
The samples were received on 8/21/2024 7:40 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 1.7°C.

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

Client Sample Results

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-10331-1

Client Sample ID: MW-5

Date Collected: 08/16/24 16:00
Date Received: 08/21/24 07:40

Lab Sample ID: 885-10331-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.0**		1.0		ug/L			08/28/24 06:08	1
Ethylbenzene	ND		1.0		ug/L			08/28/24 06:08	1
Toluene	**2.4**		1.0		ug/L			08/28/24 06:08	1
Xylenes, Total	**2.2**		1.5		ug/L			08/28/24 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*08/28/24 06:08*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/28/24 06:08*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*08/28/24 06:08*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/28/24 06:08*	*1*

Client Sample Results

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-10331-1

Client Sample ID: MW-12

Date Collected: 08/16/24 15:35
Date Received: 08/21/24 07:40

Lab Sample ID: 885-10331-2

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			08/28/24 06:37	1
Ethylbenzene	ND		1.0		ug/L			08/28/24 06:37	1
Toluene	ND		1.0		ug/L			08/28/24 06:37	1
Xylenes, Total	ND		1.5		ug/L			08/28/24 06:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*08/28/24 06:37*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/28/24 06:37*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*08/28/24 06:37*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*08/28/24 06:37*	*1*

QC Sample Results

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-10331-1

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

Lab Sample ID: MB 885-11062/29
Matrix: Water
Analysis Batch: 11062

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			08/27/24 23:01	1
Ethylbenzene	ND		1.0		ug/L			08/27/24 23:01	1
Toluene	ND		1.0		ug/L			08/27/24 23:01	1
Xylenes, Total	ND		1.5		ug/L			08/27/24 23:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*08/27/24 23:01*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/27/24 23:01*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*08/27/24 23:01*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*08/27/24 23:01*	*1*

Lab Sample ID: MB 885-11062/4
Matrix: Water
Analysis Batch: 11062

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			08/27/24 10:38	1
Ethylbenzene	ND		1.0		ug/L			08/27/24 10:38	1
Toluene	ND		1.0		ug/L			08/27/24 10:38	1
Xylenes, Total	ND		1.5		ug/L			08/27/24 10:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*08/27/24 10:38*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*08/27/24 10:38*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*08/27/24 10:38*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*08/27/24 10:38*	*1*

Lab Sample ID: LCS 885-11062/28
Matrix: Water
Analysis Batch: 11062

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			20.1	19.5		ug/L		97	70 - 130		
Toluene			20.2	20.5		ug/L		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

QC Association Summary

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-10331-1

GC/MS VOA

Analysis Batch: 11062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-10331-1	MW-5	Total/NA	Water	8260B	
885-10331-2	MW-12	Total/NA	Water	8260B	
MB 885-11062/29	Method Blank	Total/NA	Water	8260B	
MB 885-11062/4	Method Blank	Total/NA	Water	8260B	
LCS 885-11062/28	Lab Control Sample	Total/NA	Water	8260B	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-10331-1

Client Sample ID: MW-5

Lab Sample ID: 885-10331-1

Date Collected: 08/16/24 16:00
Matrix: Water
Date Received: 08/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	11062	JR	EET ALB	08/28/24 06:08

Client Sample ID: MW-12

Lab Sample ID: 885-10331-2

Date Collected: 08/16/24 15:35
Matrix: Water
Date Received: 08/21/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	11062	JR	EET ALB	08/28/24 06:37

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-10331-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Benzene
8260B		Water	Ethylbenzene
8260B		Water	Toluene
8260B		Water	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: Hilcorp Farmington NM

Mailing Address: 382 Road 3100 Aztec, NM 87410

Billing Address: PO Box 61529 Houston, TX 77208

Phone #: 505-486-9543

email or Fax#: Brandon.Sinclair@hilcorp.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

X Standard ☐ Rush

Project Name:

Hampton 4M

Project #:

Project Manager:

Kate Kaufman

Sampler: Brandon Sinclair

On Ice: ☒ Yes ☐ No chucky

# of Coolers: 1

Cooler Temp(including CF): 1.6 +0.1 = 1.7 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87

Tel. 505-345-3975 Fax 505-345-410

885-10331 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX Method 8260
8-16	1600	Water	MW-5	(3) 40ml VOA	HCL	1	X
8-16	1535	Water	MW-12	(3) 40ml VOA	HCL	2	X
		~~Water~~	~~MW-16~~	(3) 40ml VOA	~~HCL~~		X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/20/24	1641				8/20/24	1641
Date:	Time:	Relinquished by:	Received by:	Via: courier	Date	Time
8/20/24	1727				8/21/24	7:40

Remarks: Special Pricing See Andy

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.

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-10331-1

Login Number: 10331 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/22/2024 12:38:45 PM

JOB DESCRIPTION

Hampton 4M

JOB NUMBER

885-15460-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

Generated
11/22/2024 12:38:45 PM

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

Client: Hilcorp Energy
Project/Site: Hampton 4M

Laboratory Job ID: 885-15460-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-15460-1

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: Hampton 4M

Job ID: 885-15460-1

Job ID: 885-15460-1 Eurofins Albuquerque

Job Narrative
885-15460-1

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

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

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

Receipt
The samples were received on 11/16/2024 6:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C.

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

Client Sample Results

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-15460-1

Client Sample ID: MW-5

Date Collected: 11/14/24 15:00
Date Received: 11/16/24 06:20

Lab Sample ID: 885-15460-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.0**		1.0		ug/L			11/20/24 18:45	1
Ethylbenzene	**1.6**		1.0		ug/L			11/20/24 18:45	1
Toluene	**2.9**		1.0		ug/L			11/20/24 18:45	1
Xylenes, Total	**3.0**		1.5		ug/L			11/20/24 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*11/20/24 18:45*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*11/20/24 18:45*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*11/20/24 18:45*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*11/20/24 18:45*	*1*

Client Sample Results

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-15460-1

Client Sample ID: MW-12

Date Collected: 11/14/24 14:20
Date Received: 11/16/24 06:20

Lab Sample ID: 885-15460-2

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			11/20/24 19:09	1
Ethylbenzene	ND		1.0		ug/L			11/20/24 19:09	1
Toluene	ND		1.0		ug/L			11/20/24 19:09	1
Xylenes, Total	**1.7**		1.5		ug/L			11/20/24 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*11/20/24 19:09*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/20/24 19:09*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/20/24 19:09*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*11/20/24 19:09*	*1*

QC Sample Results

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-15460-1

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

Lab Sample ID: MB 885-16277/5
Matrix: Water
Analysis Batch: 16277

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			11/20/24 13:28	1
Ethylbenzene	ND		1.0		ug/L			11/20/24 13:28	1
Toluene	ND		1.0		ug/L			11/20/24 13:28	1
Xylenes, Total	ND		1.5		ug/L			11/20/24 13:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*11/20/24 13:28*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/20/24 13:28*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/20/24 13:28*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*		*11/20/24 13:28*	*1*

Lab Sample ID: LCS 885-16277/4
Matrix: Water
Analysis Batch: 16277

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			20.1	19.7		ug/L		98	70 - 130		
Toluene			20.2	19.6		ug/L		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

QC Association Summary

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-15460-1

GC/MS VOA

Analysis Batch: 16277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-15460-1	MW-5	Total/NA	Water	8260B	
885-15460-2	MW-12	Total/NA	Water	8260B	
MB 885-16277/5	Method Blank	Total/NA	Water	8260B	
LCS 885-16277/4	Lab Control Sample	Total/NA	Water	8260B	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-15460-1

Client Sample ID: MW-5

Lab Sample ID: 885-15460-1

Date Collected: 11/14/24 15:00

Matrix: Water

Date Received: 11/16/24 06:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	16277	CM	EET ALB	11/20/24 18:45

Client Sample ID: MW-12

Lab Sample ID: 885-15460-2

Date Collected: 11/14/24 14:20

Matrix: Water

Date Received: 11/16/24 06:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	16277	CM	EET ALB	11/20/24 19:09

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: Hampton 4M

Job ID: 885-15460-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	Benzene
8260B		Water	Ethylbenzene
8260B		Water	Toluene
8260B		Water	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: Hilcorp Farmington NM

Mailing Address: 382 Road 3100 Aztec, NM 87410

Billing Address: PO Box 61529 Houston, TX 77208

Phone #: 505-486-9543

email or Fax#: Brandon.Sinclair@hilcorp.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
X Standard ☐ Rush

Project Name: Hampton 4M

Project #:

Project Manager: Mitch Killough

Sampler: Brandon Sinclair

On Ice: ☑ Yes ☐ No Ugi

# of Coolers: 1

Cooler Temp(including CF): 3.2-0.1=3.1°

HALL ENVIRONMENTAL ANALYSIS LABORA
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-15460 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX Method 8260
11-14	1500	Water	MW-5	(3) 40ml VOA	HCL		X
11-14	1420	Water	MW-12	(3) 40ml VOA	HCL		X
		~~Water~~	~~MW-16~~	~~(3) 40ml VOA~~	~~HCL~~		~~X~~

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/15/24	1650				11/15/24	1650
11/15/24	1730			courier	11/16/24	0:20

Remarks: Special Pricing See Andy

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.

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-15460-1

Login Number: 15460 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Proctor, Nancy

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

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

Operator:	OGRID:
HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	372171
	Action Number: 438371
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2024 Annual Groundwater Monitoring Report for Hampton #4M (3R-069): content satisfactory 1. Monitoring wells: MW-5 and MW-12 may be suspended from the groundwater sampling each quarter. Provide the P&A permits obtained by OSE for upload to the OCD portal in the incident file. 2. Continue to manually bail if enough LNAPL is present in wells, or continue to utilize an absorbent or ORC sock to recover residual LNAPL that remains in MW-16. 3. Continue to sample all remaining wells for constituents of concern. 4. Submit the 2025 Annual Groundwater Monitoring Report to the OCD no later than April 1, 2026.	4/23/2025