

**REVIEWED**

By NVElez at 7:48 am, Oct 22, 2025

1. Continue with directive given in the "Discussion and Recommendations" portion of this report. 2. Submit next quarterly report by January 15, 2026.

October 17, 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: Third Quarter 2025 – SVE System Update

San Juan 32-9 #41A
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident No: NAPP2108949980

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Third Quarter 2025 – SVE System Update* report summarizing the soil vapor extraction (SVE) system performance at the San Juan 32-9 #41A natural gas production well (Site) on land managed by the Bureau of Land Management (BLM) in Unit P, Section 31, Township 32 North, Range 9 West in San Juan County, New Mexico (Figure 1). The SVE system was put into full time operation on October 9, 2023, to remediate subsurface soil impacts resulting from approximately 15 barrels (bbls) of natural gas condensate released from an aboveground storage tank. This report summarizes Site activities performed in July, August, and September of 2025. A 15-day extension request for the routine reporting schedule was granted by the New Mexico Oil Conservation Division (NMOCD) on October 15, 2025, and the correspondence is included as Appendix A.

SVE SYSTEM SPECIFICATIONS

The SVE system at the Site consists of a 3-phase, 5 horsepower Howden Roots 32 URAI rotary lobe blower capable of producing 112 cubic feet per minute (cfm) flow at 82 inches of water column (IWC) vacuum. The system is powered by a permanent power drop and is intended to run 24 hours per day. Three SVE wells are currently in operation and are shown on Figure 2. SVE wells SVE01, SVE02, and SVE03 are screened to 16 feet below ground surface (bgs) to address residual soil impacts in the unsaturated zone.

THIRD QUARTER 2025 ACTIVITIES

The SVE system began operation on October 9, 2023. Based on the NMOCD Conditions of Approval (COAs), dated March 29, 2023, field data measurements were collected from the system biweekly throughout third quarter 2025. Field measurements included the following parameters: total system flow, estimated flow rates from each SVE well, photoionization detector (PID) measurements of volatile organic compounds (VOCs) from each active SVE well, vacuum measurements from each active SVE well, and oxygen/carbon dioxide measurements via hand-held analyzers from each active SVE well. Field notes taken during operations and maintenance (O&M) visits are presented as Appendix B.

On November 26, 2024, wells SVE02 and SVE03 were taken offline to focus extraction on SVE01, and the blower motor speed was decreased to prevent the vacuum from increasing past the maximum rating; however, following an increase in moisture recovery leading to freezing issues during the fourth quarter of 2024 and the first quarter of 2025, well SVE03 was brought back online on January 28, 2025, to decrease vacuum on SVE01. Between June 30 and September 26, 2025, the SVE system operated for 2,091.5 hours for a runtime efficiency of 99 percent (%). Appendix C presents photographs of the runtime meter for calculating the third quarter 2025 runtime efficiency. Table 1 presents the SVE system operational hours and calculated percent runtime.

Based on the March 2023 COAs, vapor samples are collected quarterly following the first year of operation from a sample port located between the SVE piping manifold and the SVE blower using a high vacuum air sampler. A vapor sample was collected on August 13, 2025. Prior to collection, the vapor sample was field screened with a PID for organic vapor monitoring (OVM). The vapor sample was collected directly into two 1-Liter Tedlar® bags and submitted to Eurofins Environment Testing in Albuquerque, New Mexico for analysis of total volatile petroleum hydrocarbons (TVPH – also known as total petroleum hydrocarbons – gasoline range organics (TPH-GRO)) following United States Environmental Protection Agency (EPA) Method 8015D, VOCs following EPA Method 8260B, and fixed gas analysis of oxygen and carbon dioxide following Gas Processors Association (GPA) Method 2261. Tables 2 and 3 present a summary of field measurements and analytical data, respectively, collected from system startup through the third quarter of 2025. The full laboratory analytical report is attached as Appendix D. Graphs 1 and 2 present oxygen and carbon dioxide levels over time, respectively.

Vapor sample data and measured influent flow rates are used to estimate total mass recovered and total emissions generated by the SVE system (Table 4). Based on these estimates, 4,364 pounds (2.18 tons) of TVPH have been removed by the system to date. No phase-separated hydrocarbons were recovered from the system during the O&M and sampling period described above. Vapor samples will continue to be collected quarterly for the remainder of system operation.

SOIL PERFORMANCE SAMPLING AND RESULTS

Based on SVE system vapor sample data collected at the Site, soil performance sampling was conducted on September 17, 2025, to assess soil conditions and potential residual hydrocarbon concentrations remaining at the Site. Soil sampling was conducted in accordance with the NMOCD approved *Solar Vapor Extraction Pilot Test Report and Final Remediation Work Plan* prepared by Ensolum and dated January 4, 2023. Per the approved workplan, three soil borings were advanced at the Site in the locations indicated on Figure 3. Soil samples were collected from each boring, BH08 through BH10, at depths of 5, 10, 15, and 20 feet bgs. Soil sample results indicated that a TPH concentration exceeding the applicable NMOCD Closure Criteria is present at a depth of approximately 5 feet bgs in boring BH10. Analytical results from BH08 and BH09 indicated that TPH and benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations are below the applicable closure criteria. The soil sample analytical results are summarized in Table 5, with complete laboratory analytical report attached as Appendix E.

DISCUSSION AND RECOMMENDATIONS

Mass removal rates have remained at less than 1 pound per day (lb/day) since November 2024. Due to the low mass removal rates observed following system optimization attempts, confirmation soil sampling was conducted in September 2025 as described above. Based on those results, system operation will continue, and adjustments will be made to target the remaining impacted depth interval at soil boring location BH10.

Monthly O&M visits, at a minimum, and quarterly sampling events will continue to be performed by Ensolum and/or Hilcorp personnel to ensure the SVE system is operating within normal working ranges (i.e., temperature, pressure, and vacuum). Deviations from regular operations will be noted on field logs and included in the following quarterly report.

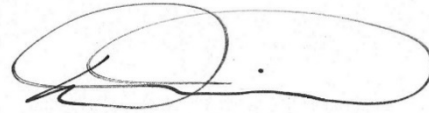
We appreciate the opportunity to provide this report to the NMOCD. If you should have any questions or comments regarding this report, please contact the undersigned.

Sincerely,

Ensolum, LLC



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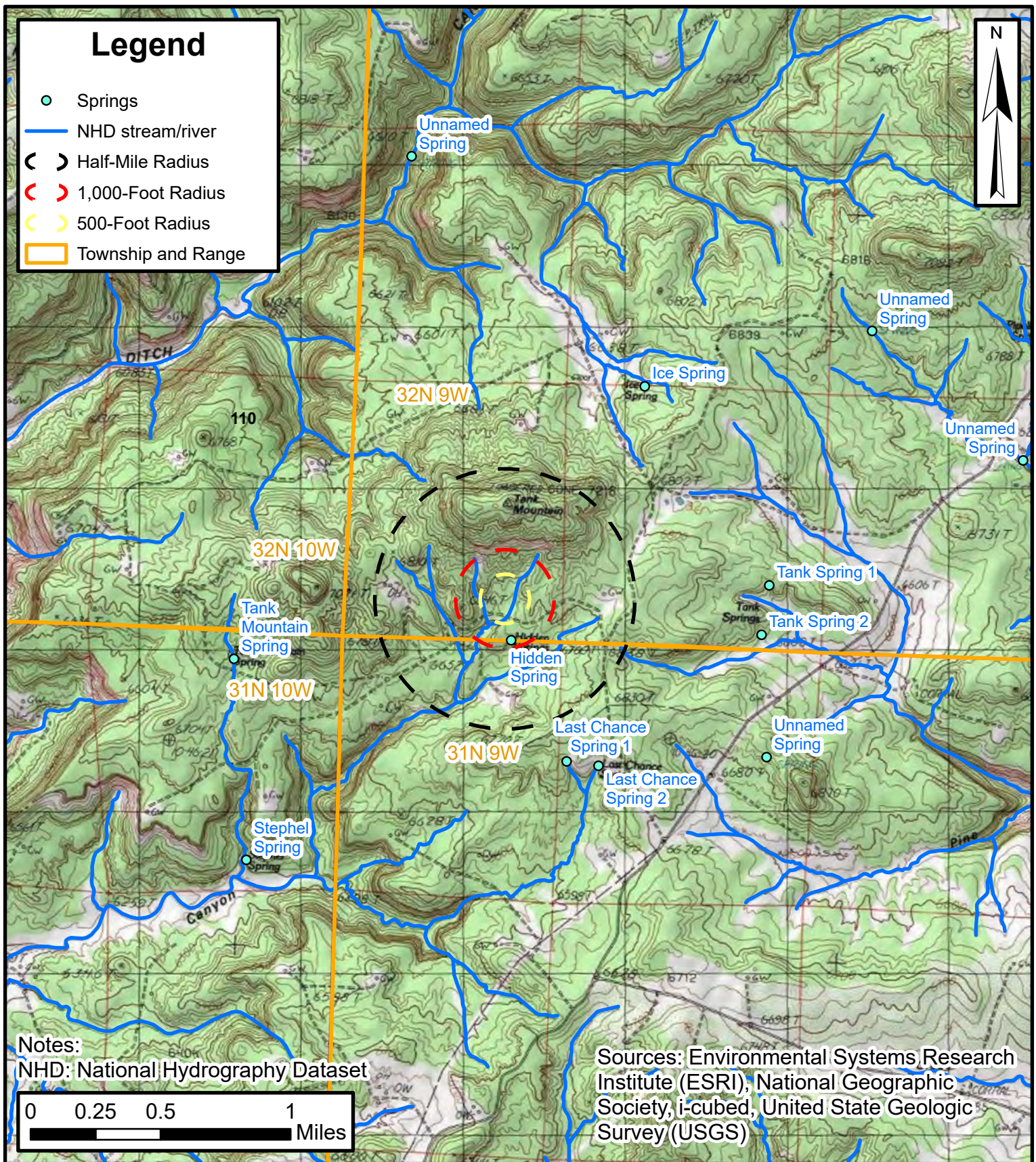
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Attachments:

Figure 1	Site Location Map
Figure 2	SVE System Radius of Influence and Radius of Effect
Table 1	Soil Vapor Extraction System Runtime Calculations
Table 2	Soil Vapor Extraction System Field Measurements
Table 3	Soil Vapor Extraction System Air Analytical Results
Table 4	Soil Vapor Extraction System Mass Removal and Emissions
Table 5	Confirmation Soil Sample Analytical Results
Graph 1	Oxygen vs Time
Graph 2	Carbon Dioxide vs Time
Appendix A	Correspondence
Appendix B	Field Notes
Appendix C	Project Photographs
Appendix D	Vapor Sample Laboratory Analytical Report
Appendix E	Performance Soil Sample Laboratory Analytical Report



Figures



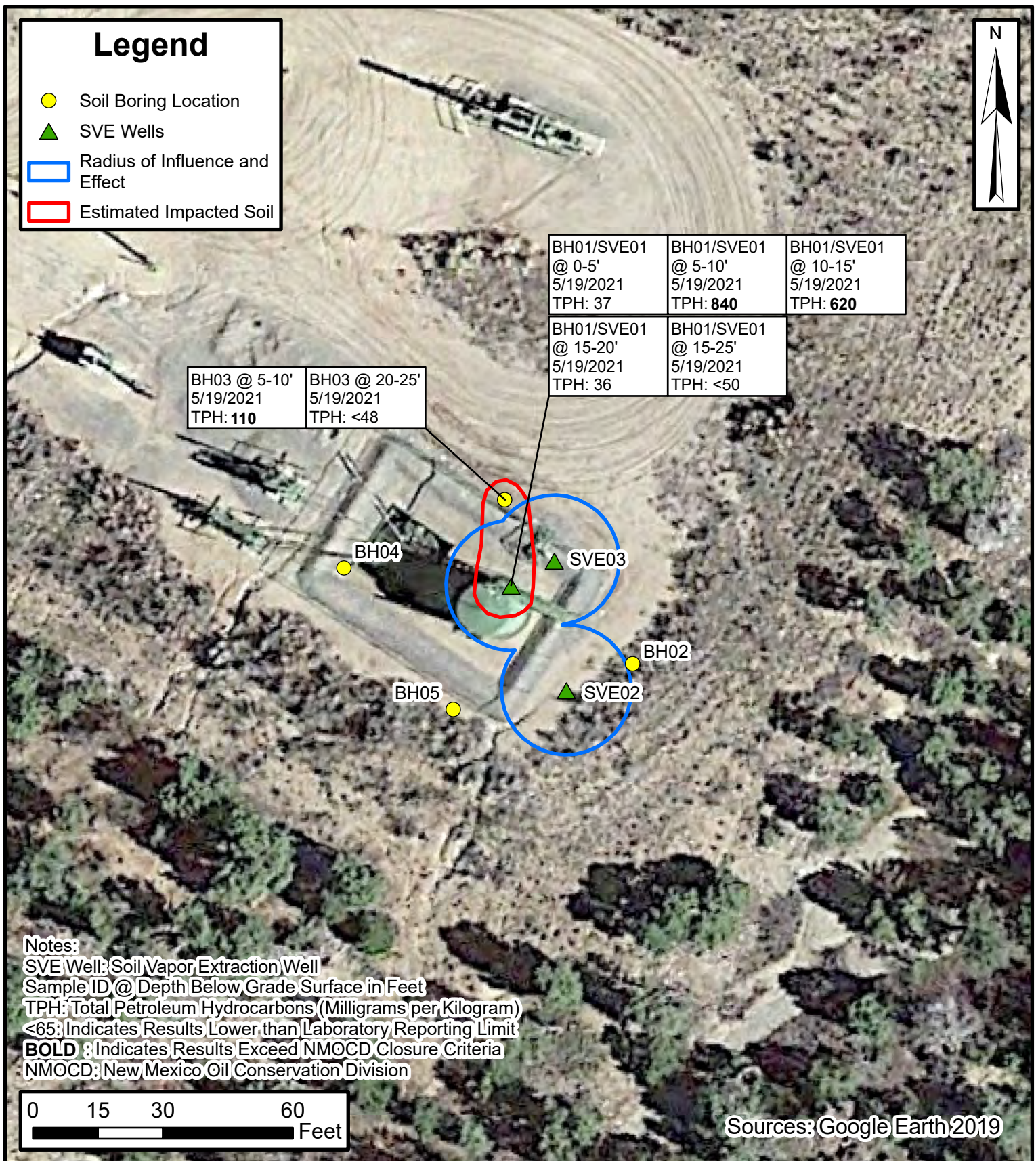
Site Location Map

San Juan 32-9 #41A
Hilcorp Energy Company
SEC 31-T32N-R9W
San Juan County, New Mexico

FIGURE

1

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants



SVE System Radius of Influence and Radius of Effect

San Juan 32-9 #41A
 Hilcorp Energy Company
 SEC 31-T32N-R9W
 San Juan County, New Mexico

FIGURE
2



Confirmation Soil Sample Analytical Results

San Juan 32-9 #41A
 Hilcorp Energy Company
 SEC 31-T32N-R9W
 San Juan County, New Mexico

FIGURE
3



Tables & Graphs



TABLE 1
SOIL VAPOR EXTRACTION SYSTEM RUNTIME CALCULATIONS

San Juan 32-9 #41A
Hilcorp Energy Company
San Juan County, New Mexico

Date	Total Operational Hours	Delta Hours	Days	Quarterly Percent Runtime	Cumulative Percent Runtime
10/9/2023	1.3	Startup			
6/30/2025	14,538.4	334.8	14	100%	96%
7/21/2025	15,044.0	505.6	21	100%	96%
7/28/2025	15,210.8	166.8	7	99%	96%
8/13/2025	15,594.2	383.4	16	100%	96%
8/24/2025	15,859.7	265.5	11	101%	96%
9/4/2025	16,124.1	264.4	11	100%	97%
9/26/2025	16,629.9	505.8	22	96%	96%
				3rd Qtr 2025 Runtime	99%



TABLE 2
SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS
 San Juan 32-9 #41A
 Hilcorp Energy Company
 San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ⁽¹⁾⁽²⁾	Vacuum (IWC)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
Influent, All Wells	10/9/2023	1,783	3.4	161	99	88.0	3.2	20.9	0.00
	10/10/2023	1,646	3.4	161	99	90.0	3.2	20.9	0.00
	10/13/2023	667	4.1	177	118	62.0	2.2	20.1	0.62
	10/19/2023	2,143	4.9	194	133	52.0	1.9	20.5	0.40
	10/26/2023	195	5.2	199	137	52.0	1.9	--	--
	10/31/2023	440	5.2	199	138	49.0	1.8	--	--
	11/8/2023	422	5.2	199	136	52.0	1.9	19.8	0.00
	11/16/2023	541	5.2	199	137	51.7	1.9	--	--
	11/28/2023	91	5.3	201	137	54.4	2.0	--	--
	12/7/2023	231	6.0	214	147	50.0	1.8	--	--
	12/13/2023	317	5.6	207	141	54.4	2.0	--	--
	12/28/2023	232	5.7	209	140	59.8	2.2	--	--
	1/19/2024	173	5.0	195	129	62.0	2.2	20.9	0.16
	2/7/2024	112	3.4	161	86	131.9	4.8	--	--
	2/20/2024	282	3.9	172	93	127.8	4.6	--	--
	3/5/2024	180	4.0	174	95	125.1	4.5	--	--
	3/19/2024	--	--	--	--	--	--	--	--
	4/4/2024	172	2.8	146	86	102.0	3.7	--	--
	4/16/2024	179	2.8	146	84	108.8	3.9	--	--
	5/8/2024	175	2.8	147	84	111.5	4.0	--	--
	5/22/2024	98	2.7	143	82	111.5	4.0	--	--
	6/13/2024	110	2.7	143	81	111.5	4.0	--	--
	6/26/2024	44	2.6	140	77	122.4	4.4	--	--
	7/11/2024	39	2.5	139	83	96.6	3.5	--	--
	7/30/2024	25	4.5	186	121	70.7	2.6	--	--
	8/13/2024	18	4.2	178	117	66.6	2.4	--	--
	8/22/2024	Power Outage							
	9/9/2024	14	4.1	176	118	59.8	2.2	--	--
	9/24/2024	19	4.4	183	124	54.4	2.0	--	--
	10/15/2024	45	2.6	141	81	110	4.0	--	--
	10/30/2024	20	3.8	170	107	81.6	2.9	--	--
	11/12/2024	System Off - Could Not Restart							
	11/26/2024	15	--	--	--	122.4	4.4	--	--
	12/5/2024	121	--	--	--	104.7	3.8	--	--
	12/18/2024	5	--	--	--	89.8	3.2	--	--
	1/10/2025	107	0.6	65	38	106.1	3.8	--	--
	1/28/2025	6	--	--	--	69.4	2.5	--	--
	2/10/2025	22	0.5	62	35	112.9	4.1	--	--
	2/26/2025	38	0.5	64	37	110.2	4.0	--	--
	3/12/2025	26	0.5	64	36	112.9	4.1	--	--
	3/31/2025	7	--	--	--	118.8	4.3	--	--
	4/17/2025	15	2.5	138	75	126.5	4.6	--	--
	4/29/2025	10	--	--	--	39.0	1.4	--	--
	5/9/2025	7	--	--	--	48.8	1.8	--	--
	5/27/2025	10	4.4	184	127	49.0	1.8	--	--
	6/16/2025	12	4.2	179	122	54.4	2.0	--	--
	6/30/2025	9	4.3	180	124	51.7	1.9	--	--
	7/21/2025	8	6.1	216	141	68.0	2.5	--	--
	7/28/2025	3	6.5	223	145	69.4	2.5	--	--
	8/13/2025	3	6.3	220	143	69.4	2.5	--	--
	8/24/2025	3	6.5	223	145	69.4	2.5	--	--
	9/4/2025	2	6.4	220	143	69.4	2.5	--	--
	9/26/2025	--	--	--	--	--	--	--	--
SVE01	10/9/2023	1,816	--	--	34	72.1	2.6	20.9	0.00
	10/10/2023	1,734	--	--	38	73.4	2.6	20.9	0.00
	10/13/2023	395	--	--	>50	39.0	1.4	20.9	0.22
	10/19/2023	435	--	--	>50	26.0	0.9	20.7	0.28
	10/26/2023	116	--	--	>50	26.0	0.9	20.2	0.00
	10/31/2023	368	--	--	>50	1.8	0.1	20.5	0.18
	11/8/2023	437	--	--	>50	22.0	0.8	20.0	0.08
	11/16/2023	514	--	--	>50	21.7	0.8	19.2	0.18
	11/28/2023	55	--	--	>50	22.7	0.8	19.8	0.02
	12/7/2023	240	--	--	>50	22.7	0.8	19.1	0.06
	12/13/2023	137	--	--	>50	22.7	0.8	19.2	0.00
	12/28/2023	275	--	--	>50	33.3	1.2	19.1	0.02
	1/19/2024	274	--	--	>50	28.0	1.0	20.9	0.12
	2/7/2024	372	0.1	26	15	116.3	4.2	20.9	0.09
	2/20/2024	343	0.5	61	35	110.9	4.0	20.9	0.13
	3/5/2024	276	0.5	59	34	104.3	3.8	20.9	0.12
	3/19/2024	--	--	--	--	--	--	--	--



TABLE 2
SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS
 San Juan 32-9 #41A
 Hilcorp Energy Company
 San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ⁽¹⁾⁽²⁾	Vacuum (IWC)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
SVE01	4/4/2024	239	0.2	40	25	77.6	2.8	20.9	0.16
	4/16/2024	189	0.3	46	28	92.0	3.3	20.8	0.12
	5/8/2024	211	0.4	53	32	93.1	3.4	20.9	0.12
	5/22/2024	147	0.3	45	27	96.2	3.5	20.0	0.18
	6/13/2024	181	0.3	47	28	96.3	3.5	20.8	0.15
	6/26/2024	64	0.3	45	26	100.6	3.6	20.9	0.13
	7/11/2024	89	0.2	34	21	88.1	3.2	20.7	0.21
	7/30/2024	122	0.2	36	22	93.6	3.4	20.8	0.16
	8/13/2024	79	0.0	12	8	53.7	1.9	20.2	0.37
	8/22/2024	Power Outage							
	9/9/2024	60	0.0	9	6	46.2	1.7	20.9	0.32
	9/24/2024	49	0.0	0	0	41.0	1.5	19.4	0.48
	10/15/2024	36	0.1	33	20	92.2	3.3	20.1	0.35
	10/30/2024	57	0.0	9	6	43.7	1.6	20.8	0.40
	11/12/2024	System Off - Could Not Restart							
	11/26/2024	4	--	--	--	--	--	20.9	0.17
	12/5/2024	61	0.2	36	22	85.6	3.1	20.9	0.34
	12/18/2024	2	--	--	--	--	--	20.9	0.34
	1/10/2025	45	0.1	26	18	60.8	2.2	20.9	0.14
	1/28/2025	9	--	--	--	68.0	2.5	20.9	0.24
	2/10/2025	25	0.2	40	24	99.3	3.6	20.9	0.06
	2/26/2025	35	0.2	37	22	97.4	3.5	--	--
	3/12/2025	28	0.2	38	23	98.3	3.5	--	--
	3/31/2025	4	--	--	--	116.9	4.2	20.9	0.04
	4/17/2025	18	0.2	36	21	98.7	3.6	20.9	0.20
	4/29/2025	4	--	--	--	31.8	1.1	20.9	0.05
	5/9/2025	5	--	--	--	41.3	1.5	20.9	0.08
	5/27/2025	5	0.0	9	6	44.1	1.6	20.9	0.22
	6/16/2025	11	0.0	0	0	44.1	1.6	20.9	0.17
	6/30/2025	10	0.0	0	0	44.3	1.6	20.9	0.20
	7/21/2025	6	0.0	0	0	38.2	1.4	20.9	0.18
	7/28/2025	5	0.0	0	0	61.6	2.2	20.9	0.25
	8/13/2025	7	--	--	--	59.3	2.1	20.9	0.22
	8/24/2025	5	--	--	--	61.2	2.2	20.9	0.16
	9/4/2025	5	--	--	--	60.7	2.2	20.9	0.15
	9/26/2025	5	--	--	--	60.9	2.2	20.9	0.09
SVE02	10/9/2023	307	--	--	2	80.7	2.9	20.9	0.00
	10/10/2023	291	--	--	2	83.8	3.0	20.9	0.00
	10/13/2023	84	--	--	<2	48.0	1.7	20.9	0.16
	10/19/2023	28	--	--	<2	46.0	1.7	20.9	0.28
	10/26/2023	46	--	--	--	48.0	1.7	20.7	0.00
	10/31/2023	8	--	--	3	3.2	0.1	20.9	0.04
	11/8/2023	49	--	--	5	44.0	1.6	19.6	0.54
	11/16/2023	95	--	--	2	36.5	1.3	19.1	0.46
	11/28/2023	108	--	--	3	37.5	1.4	19.6	0.04
	12/7/2023	66	--	--	5	39.0	1.4	19.1	0.10
	12/13/2023	50	--	--	2	39.0	1.4	19.1	0.16
	12/28/2023	30	--	--	5	44.8	1.6	19.1	0.00
	1/19/2024	37	--	--	4	50.0	1.8	20.9	0.44
	2/7/2024	56	0.0	9	7	20.1	0.7	20.9	0.07
	2/20/2024	105	0.0	0	0	46.6	1.7	20.9	0.07
	3/5/2024	96	0.0	0	0	36.1	1.3	20.9	0.04
	3/19/2024	--	--	--	--	--	--	--	--
	4/4/2024	103	0.0	0	0	41.6	1.5	20.9	0.17
	4/16/2024	89	0.0	0	0	31.2	1.1	20.7	0.14
	5/8/2024	86	0.0	0	0	33.2	1.2	20.7	0.13
	5/22/2024	79	0.0	0	0	44.5	1.6	19.5	0.11
	6/13/2024	82	0.0	0	0	41.6	1.5	20.7	0.12
	6/26/2024	32	0.0	0	0	0.0	0.0	20.6	0.11
	7/11/2024	6	--	--	--	90.2	--	20.9	0.09
	7/30/2024	10	0.0	0	0	81.1	2.9	20.9	0.11
	8/13/2024	5	2.4	135	91	55.6	2.0	20.9	0.04
	8/22/2024	Power Outage							
	9/9/2024	5	0.5	64	45	47.2	1.7	20.9	0.03
	9/24/2024	11	0.6	66	46	43.2	1.6	20.7	0.06
	10/15/2024	Well Taken Offline							
	10/30/2024	10	0.6	65	46	46.1	1.7	20.9	0.04
	11/12/2024	System Off - Could Not Restart							
	11/26/2024	Well Taken Offline							
	4/29/2025	9	--	--	--	22.2	0.8	20.9	0.06



TABLE 2
SOIL VAPOR EXTRACTION SYSTEM FIELD MEASUREMENTS
 San Juan 32-9 #41A
 Hilcorp Energy Company
 San Juan County, New Mexico

SVE Well ID	Date	PID (ppm)	Differential Pressure (IWC)	Flow Rate (acfm)	Flow Rate (scfm) ⁽¹⁾⁽²⁾	Vacuum (IWC)	Vacuum (psi)	Oxygen (%)	Carbon Dioxide (%)
SVE02	5/9/2025	5	--	--	--	35.8	1.3	20.9	0.06
	5/27/2025	7	--	--	--	37.3	--	20.9	0.01
	6/16/2025	8	--	--	--	37.5	1.4	20.9	0.01
	6/30/2025	7	--	--	--	38.2	1.4	20.9	0.02
	7/21/2025	2	--	--	--	45.6	1.6	20.9	0.02
	7/28/2025	2	--	--	--	50.8	1.8	20.9	0.01
	8/13/2025	2	--	--	--	49.5	1.8	20.9	0.02
	8/24/2025	2	--	--	--	49.7	1.8	20.9	0.01
	9/4/2025	2	--	--	--	49.5	1.8	20.9	0.02
	9/26/2025	2	--	--	--	49.6	1.8	20.9	0.02
SVE03	10/9/2023	524	--	--	26	76.3	2.8	20.1	0.00
	10/10/2023	411	--	--	24	77.2	2.8	19.2	0.00
	10/13/2023	448	--	--	18	43.0	1.6	20.3	0.64
	10/19/2023	180	--	--	14	38.0	1.4	20.7	0.34
	10/26/2023	77	--	--	14	52.0	1.9	20.3	0.00
	10/31/2023	63	--	--	14	35.4	1.3	20.9	0.04
	11/8/2023	312	--	--	14	36.0	1.3	19.1	0.72
	11/16/2023	315	--	--	14	29.4	1.1	19.1	0.26
	11/28/2023	48	--	--	14	33.2	1.2	19.6	0.06
	12/7/2023	134	--	--	30	32.0	1.2	19.0	0.24
	12/13/2023	112	--	--	14	36.2	1.3	19.1	0.14
	12/28/2023	71	--	--	15	38.1	1.4	19.1	0.08
	1/19/2024	85	--	--	16	28.0	1.0	20.9	0.20
	2/7/2024	33	0.6	69	50	28.0	1.0	20.9	0.05
	2/20/2024	64	0.6	69	39	111.4	4.0	20.9	0.06
	3/5/2024	50	0.9	85	48	111.5	4.0	20.9	0.06
	3/19/2024	--	--	--	--	--	--	--	--
	4/4/2024	47	0.5	64	41	76.2	2.8	20.9	0.10
	4/16/2024	46	0.8	76	49	76.1	2.7	20.8	0.08
	5/8/2024	49	0.8	77	49	78.6	2.8	20.8	0.08
	5/22/2024	24	1.6	110	65	97.3	3.5	20.3	0.10
	6/13/2024	33	1.3	99	60	92.6	3.3	20.8	0.09
	6/26/2024	15	0.4	54	33	92.5	3.3	20.7	0.08
	7/11/2024	10	0.8	80	50	84.6	3.1	20.9	0.16
	7/30/2024	29	1.4	103	64	86.3	3.1	20.8	0.11
	8/13/2024	7	0.0	15	10	57.3	2.1	20.9	0.14
	8/22/2024	Power Outage							
	9/9/2024	4	1.3	101	70	49.6	1.8	20.8	0.18
	9/24/2024	8	0.9	81	56	46.5	1.7	20.2	0.24
	10/15/2024	16	3.7	168	101	97.3	3.5	20.8	0.18
	10/30/2024	5	0.9	82	57	47.2	1.7	20.9	0.20
	11/12/2024	System Off - Could Not Restart							
	11/26/2024	Well Taken Offline							
	1/28/2025	3	--	--	--	68.0	2.5	20.9	0.12
	2/10/2025	13	Gauge Broken	--	--	97.8	3.5	20.9	0.06
	2/26/2025	30	Gauge Broken	--	--	95.1	3.4	--	--
	3/12/2025	18	Gauge Broken	--	--	97.2	3.5	--	--
	3/31/2025	3	--	--	--	106.4	3.8	--	--
	4/17/2025	10	4	177	106	97.4	3.5	20.9	0.20
	4/29/2025	3	--	--	--	28.6	1.0	20.9	0.04
	5/9/2025	5	--	--	--	35.4	1.3	20.9	0.05
	5/27/2025	3	2.5	139	98	42.2	1.5	20.9	0.28
	6/16/2025	3	2.3	132	93	41.8	1.5	20.9	0.25
	6/30/2025	4	2.3	133	94	42.4	1.5	20.9	0.22
	7/21/2025	3	2.6	141	96	51.5	1.9	20.9	0.23
	7/28/2025	2	3.2	156	105	57.8	2.1	20.7	0.48
	8/13/2025	2	--	--	--	53.3	1.9	20.9	0.32
	8/24/2025	2	--	--	--	55.8	2.0	20.9	0.19
	9/4/2025	2	--	--	--	55.6	2.0	20.9	0.21
	9/26/2025	2	--	--	--	54.7	2.0	20.9	0.17

Notes:

(1): individual well flow rates in scfm estimated based on rotometer field measurements

(2): total system flow rates in scfm calculated based on pitot tube differential pressure measurements

IWC: inches of water column

PID: photoionization detector

ppm: parts per million

acfm: actual cubic feet per minute

scfm: standard cubic feet per minute

%: percent

--: not measured



TABLE 3
SOIL VAPOR EXTRACTION SYSTEM EMISSIONS ANALYTICAL RESULTS

San Juan 32-9 #41A
Hilcorp Energy Company
San Juan County, New Mexico

Date	PID (ppm)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TVPH/GRO (µg/L)	Oxygen (%)	Carbon Dioxide (%)
10/9/2023	1,574	46	130	13	130	17,000	19.92%	1.81%
10/10/2023	1,483	17	73	7.6	76	13,000	20.56%	1.03%
10/19/2023	397	<5.0	39	<5.0	110	5,400	21.40%	0.42%
10/31/2023	440	<1.0	14	2.0	73	2,100	21.49%	0.35%
11/8/2023	422	<0.50	12	2.0	92	3,400	21.56%	0.28%
11/16/2023	541	<5.0	9.6	<5.0	64	2,600	21.43%	0.23%
11/28/2023	91	<0.10	0.91	0.14	6.6	350	21.67%	0.06%
12/13/2023	317	<0.50	3.3	0.60	27	1,400	21.72%	0.18%
12/28/2023	232	<0.50	2.7	0.59	23	1,400	21.56%	0.19%
1/19/2024	173	<0.50	1.3	<0.50	8.1	560	21.78%	0.17%
3/5/2024	180	0.49	9.9	<2.0	21	980	21.78%	0.21%
5/8/2024	175	<1.0	2.1	<1.0	8.4	560	21.58%	0.24%
7/30/2024	25	<1.0	1.0	<1.0	2.0	670	21.28%	0.27%
9/9/2024	19	<0.10	1.2	0.11	2.1	96 H	21.80%	0.24%
11/26/2024	15	<0.10	0.14	<0.10	0.15	7.9	21.07%	0.22%
2/10/2025	22	<0.50	2.7	<0.50	3.2	66	21.19%	0.18%
5/27/2025	10	<0.50	0.89	<0.50	1.2	33	21.47%	0.17%
8/13/2025	10	<0.50	2.3	<0.50	1.8	43	22.30%	0.13%

Notes:

GRO: gasoline range hydrocarbons

µg/L: microgram per liter

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

%: percent

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

H: Sample was analyzed outside of the required hold time

**TABLE 4**
SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONSSan Juan 32-9 #41A
Hilcorp Energy Company
San Juan County, New Mexico

Laboratory Analysis

Date	PID (ppm)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TVPH (µg/L)
10/9/2023	1,574	46	130	13	130	17,000
10/10/2023	1,483	17	73	7.6	76	13,000
10/19/2023	397	5.0	39	5.0	110	5,400
10/31/2023	440	1.0	14	2.0	73	2,100
11/8/2023	422	0.50	12	2.0	92	3,400
11/16/2023	541	5.0	10	5.0	64	2,600
11/28/2023	91	0.10	0.91	0.14	6.6	350
12/13/2023	317	0.50	3.3	0.60	27	1,400
12/28/2023	232	0.50	2.7	0.59	23	1,400
1/19/2024	173	0.50	1.3	0.50	8.1	560
3/5/2024	180	0.50	9.9	2.0	21	980
5/8/2024	175	1.0	2.1	1.0	8.4	560
7/30/2024	25	1.0	1.0	1.0	2.0	670
9/9/2024 ⁽¹⁾	19	0.10	1.2	0.11	2.1	96
11/26/2024	15	0.10	0.14	0.10	0.15	7.9
2/10/2025	22	0.50	2.7	0.50	3.2	66
5/27/2025	10	0.50	0.9	0.50	1.2	33
8/13/2025	10	0.50	2.3	0.50	1.8	43
Average	340	4	17	2	36	2,759

Vapor Extraction Summary

Date	Flow Rate (scfm)	Total System Flow (cf)	Delta Flow (cf)	Benzene (lb/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)
10/9/2023	System Startup							
10/10/2023	99	152,658	152,658	0.0117	0.038	0.0038	0.038	5.6
10/19/2023	133	1,872,348	1,719,690	0.0048	0.024	0.0027	0.040	4.0
10/31/2023	138	4,228,836	2,356,488	0.00152	0.0134	0.00177	0.046	1.9
11/8/2023	136	--	--	--	--	--	--	--
11/16/2023	137	7,402,578	3,173,742	0.00154	0.0061	0.00180	0.035	1.21
11/28/2023	137	9,767,472	2,964,894	0.00131	0.0027	0.00132	0.018	0.76
12/13/2023	141	12,791,076	3,023,604	0.00016	0.0011	0.00019	0.009	0.45
12/28/2023	140	15,806,676	3,015,600	0.00026	0.0016	0.00031	0.013	0.74
1/19/2024	129	19,893,396	4,086,720	0.00025	0.0010	0.00027	0.008	0.49
3/5/2024	95	26,037,996	6,144,600	0.00021	0.0023	0.00052	0.006	0.32
5/8/2024	84	32,781,516	6,743,520	0.00025	0.0020	0.00050	0.005	0.26
7/30/2024	117	46,729,554	13,948,038	0.00038	0.0006	0.00038	0.002	0.23
9/9/2024	124	53,941,890	7,212,336	0.00025	0.0005	0.00025	0.001	0.17
11/26/2024 ⁽²⁾	107	65,635,278	11,693,388	0.00004	0.0003	0.00005	0.000	0.02
2/10/2025	35	68,878,518	3,243,240	0.00008	0.0004	0.00008	0.000	0.01
5/27/2025	127	88,250,082	19,371,564	0.00015	0.0005	0.00015	0.001	0.01
8/13/2025	143	104,293,824	16,043,742	0.00025	0.0008	0.00025	0.001	0.02
Average				0.0014	0.006	0.0009	0.014	1.0

Mass Recovery

Date	Total Operational Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)
10/9/2023	System Startup							
10/10/2023	26	26	0.30	0.97	0.098	0.98	143	0.071
10/19/2023	241	216	1.03	5.2	0.59	8.7	860	0.43
10/31/2023	526	285	0.43	3.8	0.50	13.2	541	0.27
11/8/2023	--	--	--	--	--	--	--	--
11/16/2023	912	386	0.60	2.3	0.69	13.6	467	0.23
11/28/2023	1,200	288	0.38	0.77	0.38	5.2	217	0.109
12/13/2023	1,557	357	0.06	0.39	0.07	3.1	163	0.081
12/28/2023	1,916	359	0.09	0.57	0.11	4.7	264	0.132
1/19/2024	2,444	528	0.13	0.53	0.14	4.1	260	0.130
3/5/2024	3,522	1,078	0.23	2.53	0.56	6.6	348	0.174
5/8/2024	4,860	1,338	0.34	2.69	0.67	6.6	345	0.172
7/30/2024	6,847	1,987	0.75	1.16	0.75	3.9	459	0.230
9/9/2024	7,816	969	0.24	0.48	0.24	0.9	167	0.084
11/26/2024	9,638	1,821	0.08	0.53	0.08	0.9	41	0.020
2/10/2025	11,182	1,544	0.12	0.58	0.12	0.7	15	0.008
5/27/2025	13,724	2,542	0.39	1.38	0.39	1.7	38	0.019
8/13/2025	15,594	1,870	0.47	1.51	0.47	1.4	36	0.018
Total Mass Recovery to Date			5.6	25.5	5.9	76	4,364	2.18

Notes:

cf: cubic feet

scfm: cubic feet per minute

µg/L: micrograms per liter

lb/hr: pounds per hour

PID: photoionization detector

ppm: parts per million

TVPH: total volatile petroleum hydrocarbons

--: not measured

gray: laboratory reporting limit used for calculating emissions

(1) TVPH analyzed outside of required hold time

(2) Flow rate for 11/26/24 mass removal and emissions calculations is estimated based on flow rate collected on 10/30/24

TABLE 5
CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS
 San Juan 32-9 #41A
 Hilcorp Energy Company
 San Juan County, New Mexico

Sample Designation	Date	Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release (Groundwater <50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
BH08 @ 5'	9/17/2025	5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	15 F1	<48	<48	NA
BH08 @ 10'	9/17/2025	10	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.4	<47	<47	NA
BH08 @ 15'	9/17/2025	15	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.5	<48	<48	NA
BH08 @ 20'	9/17/2025	20	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<47	<47	NA
BH09 @ 5'	9/17/2025	5	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	12	<49	12	NA
BH09 @ 10'	9/17/2025	10	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.2	<46	<46	NA
BH09 @ 15'	9/17/2025	15	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<48	<48	NA
BH09 @ 20'	9/17/2025	20	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<10	<50	<50	NA
BH10 @ 5'	9/17/2025	5	<0.025	<0.049	0.26	0.18	0.44	66	42	<46	108	NA
BH10 @ 10'	9/17/2025	10	<0.025	<0.050	<0.050	<0.10	<0.010	<5.0	<9.2	<46	<46	NA
BH10 @ 15'	9/17/2025	15	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.5	<47	<47	NA
BH10 @ 20'	9/17/2025	20	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<49	<49	NA

Notes:

bgs: below ground surface

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

mg/kg: milligrams per kilogram

NE: Not Established

NMOCD: New Mexico Oil Conservation Division

F1: MS and/or MSD recovery exceeds control limits.

': feet

GRO: Gasoline Range Organics

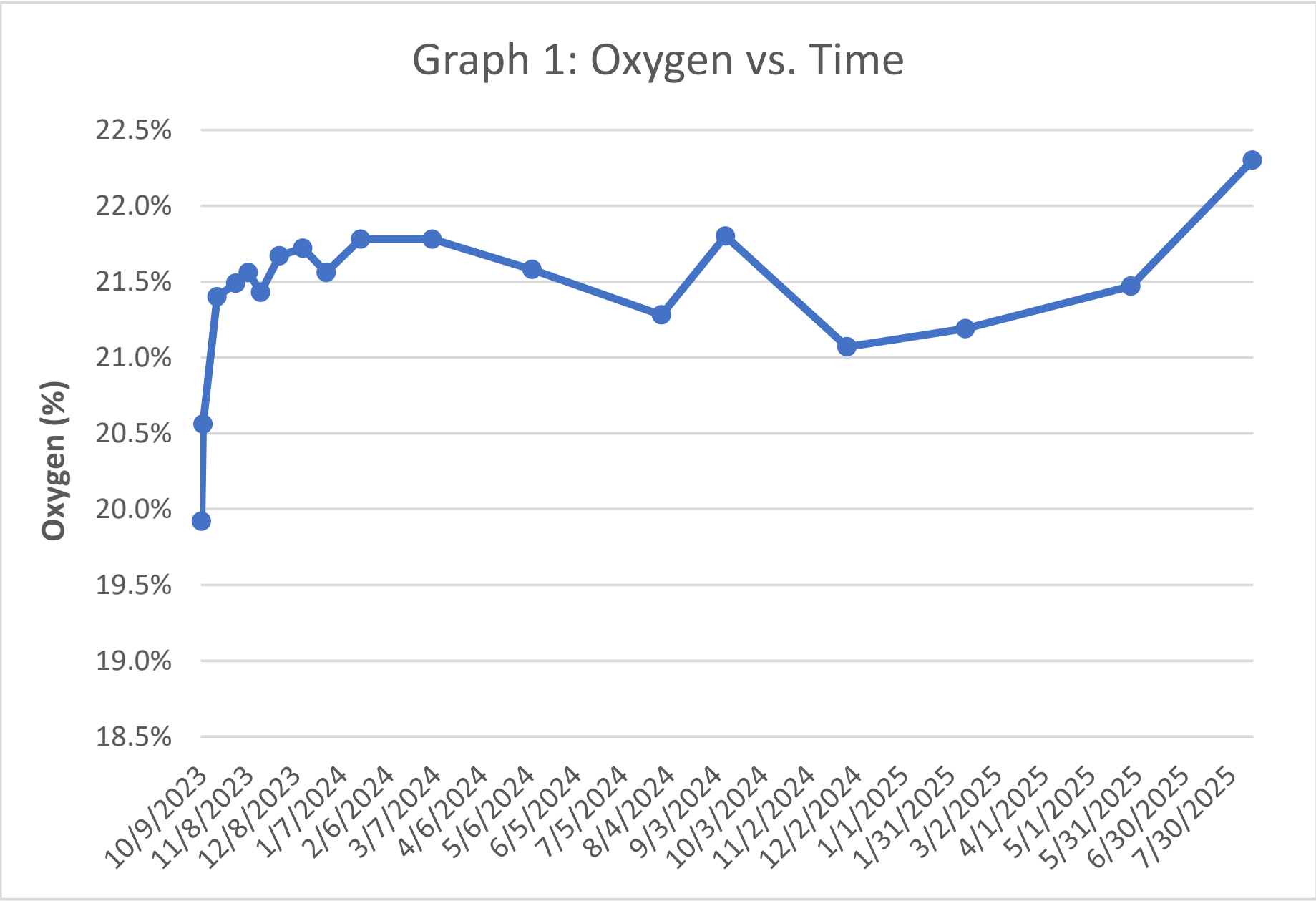
DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

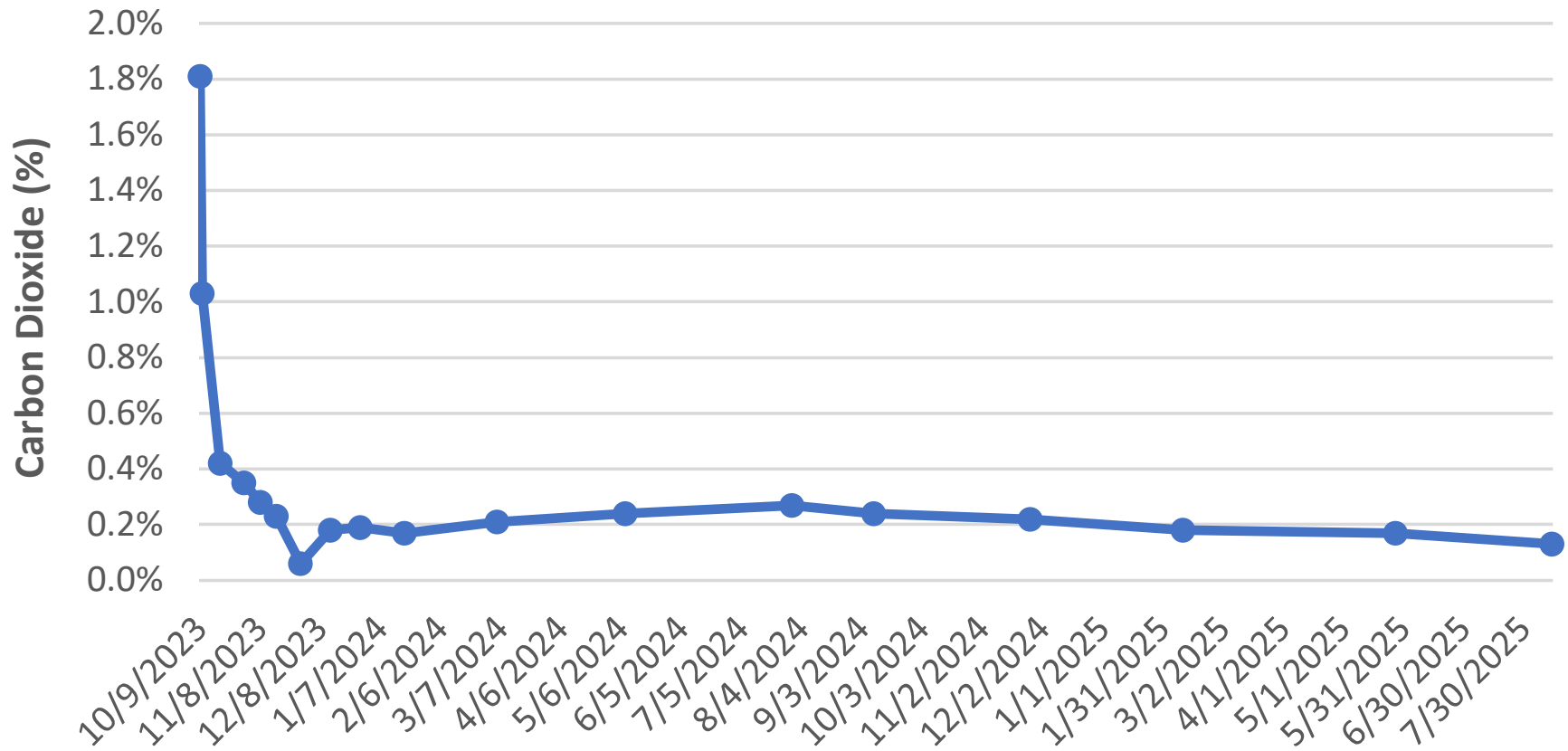
TPH: Total Petroleum Hydrocarbon

<0.025: indicates result less than the stated laboratory reporting limit (RL)

Concentrations in **bold** and shaded exceed the New Mexico Oil Conservation Division Table 1 Closure Criteria for Soils Impacted by a Release



Graph 2: Carbon Dioxide vs. Time





APPENDIX A

Correspondence

From: [Velez, Nelson, EMNRD](#)
To: [Stuart Hyde](#)
Cc: [Kate Kaufman](#); [Hannah Mishriki](#)
Subject: Re: [EXTERNAL] nAPP2108949980 - San Juan 32-9 #41A Q3 Report Extension Request
Date: Wednesday, October 15, 2025 11:05:12 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[Outlook-s1iibtqv.png](#)

[**EXTERNAL EMAIL**]

Good morning Stuart,

Thank you for the request.

Your 15-day time extension is approved. Remediation Due has been updated to October 30, 2025.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd>



From: Stuart Hyde <shyde@ensolum.com>
Sent: Thursday, October 9, 2025 10:42 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Kate Kaufman <kkaufman@hilcorp.com>; Hannah Mishriki <hmishriki@ensolum.com>
Subject: [EXTERNAL] nAPP2108949980 - San Juan 32-9 #41A Q3 Report Extension Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Nelson,

On behalf of Hilcorp, we would like to request a 15-day extension to the October 15, 2025 reporting deadline for the San Juan 32-9 #41A site. We conducted confirmation soil sampling in September and need a little more time to update tables and figures to present in the report. If approved, the new deadline for the third quarter report would be October 30, 2025.

Thanks and please reach out with any questions.



Stuart Hyde, PG

(Licensed in TX, WA, & WY)

Senior Managing Geologist

970-903-1607

[Ensolum, LLC](#)

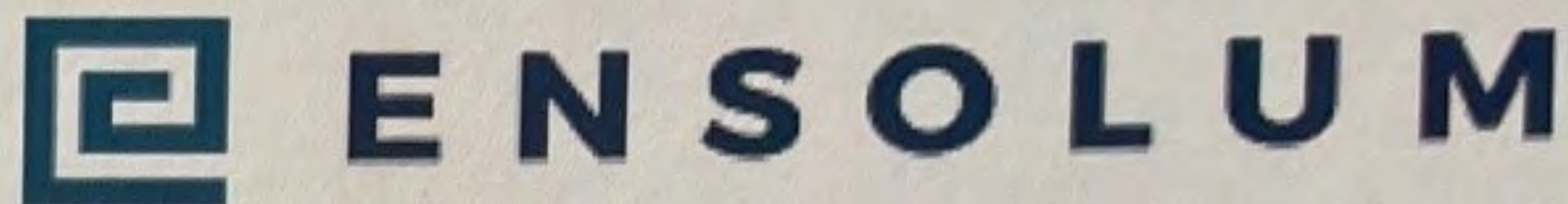
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"If you want to go fast, go alone. If you want to go far, go together." – African Proverb



APPENDIX B

Field Notes

SAN JUAN 32-9 #41A SVE SYSTEM
O&M FORMDATE: 7-21
TIME ONSITE: _____O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: _____ KO TANK HIGH LEVEL _____

		Check/Date
WEEKLY MAINTENANCE:	Blower Bearing Grease	✓
QUARTERLY MAINTENANCE:	Blower Oil Change	

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	15044.0	1209
Total Flow (scfm)		
Inlet Vacuum (IHG)	5.0	
Differential Pressure (IWC)	6.11	
Inlet PID	7.9	
Exhaust PID	3.7	
Inlet Temperature		
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		

SVE SYSTEM - QUARTERLY SAMPLING

SAMPLE ID: _____ SAMPLE TIME: _____
Analytes: Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)

OPERATING WELLS _____

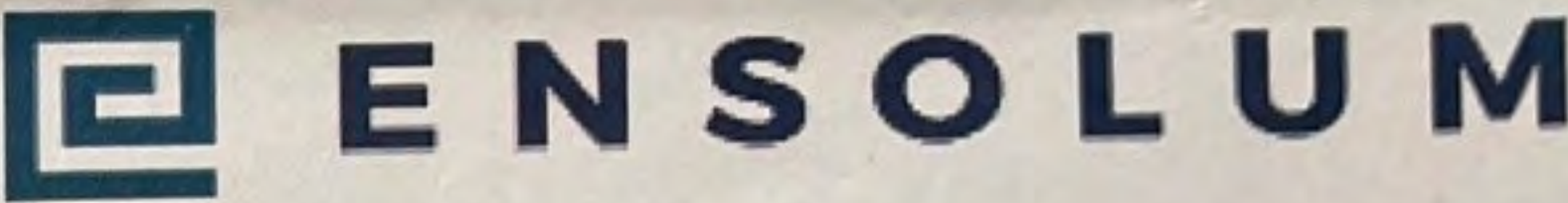
Change in Well Operation: _____

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	FLOW (CFM) ^{diff pres}	OXYGEN	CARBON DIOXIDE
SVE01	58.2	6.3	0	20.9	1800
SVE02	45.6	1.8	-0.72	20.9	180
SVE03	51.5	2.5	2.59	20.9	2340

COMMENTS/OTHER MAINTENANCE:

Exhaust pipe sheared



SAN JUAN 32-9 #41A SVE SYSTEM
O&M FORM

DATE: 7-28 O&M PERSONNEL: _____
TIME ONSITE: _____ TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: _____ KO TANK HIGH LEVEL _____

		Check/Date
WEEKLY MAINTENANCE:	Blower Bearing Grease	✓
QUARTERLY MAINTENANCE:	Blower Oil Change	

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	15210.8	1057
Total Flow (scfm)		
Inlet Vacuum (IHG)	5.1	
Differential Pressure (IWC)	6.53	
Inlet PID	2.8	
Exhaust PID	1.8	
Inlet Temperature	185	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		

SVE SYSTEM - QUARTERLY SAMPLING

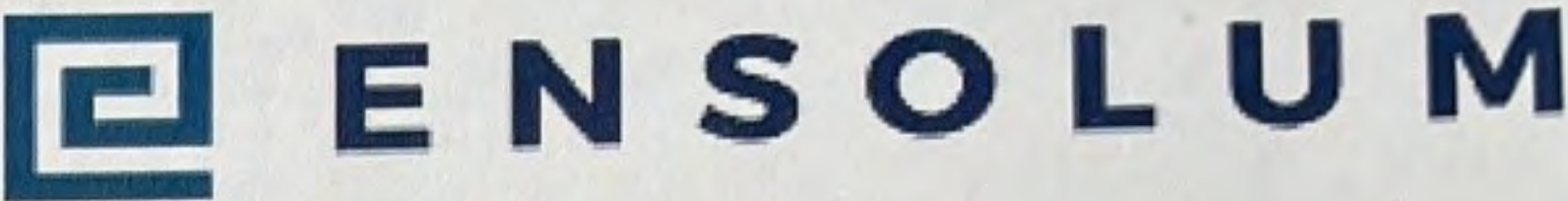
SAMPLE ID:	SAMPLE TIME:
Analytes:	Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)
OPERATING WELLS	

Change in Well Operation: _____

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	^{diff pres} FLOW (CFM)	OXYGEN	CARBON DIOXIDE
SVE01	61.6	5.4	0	20.9	2540
SVE02	50.8	1.6	-0.99	20.9	600
SVE03	57.8	1.9	3.18	20.7	4760

COMMENTS/OTHER MAINTENANCE:



SAN JUAN 32-9 #41A SVE SYSTEM
O&M FORM

DATE: 8-13 O&M PERSONNEL: B Sinclair
TIME ONSITE: _____ TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: _____ KO TANK HIGH LEVEL _____

		Check/Date
WEEKLY MAINTENANCE:	Blower Bearing Grease	✓
QUARTERLY MAINTENANCE:	Blower Oil Change	

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	15594.2	1016
Total Flow (scfm)		
Inlet Vacuum (IHG)	5.1	
Differential Pressure (IWC)	6.33	
Inlet PID	3.2	
Exhaust PID	2.4	
exh Inlet Temperature	210	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		

SVE SYSTEM - QUARTERLY SAMPLING

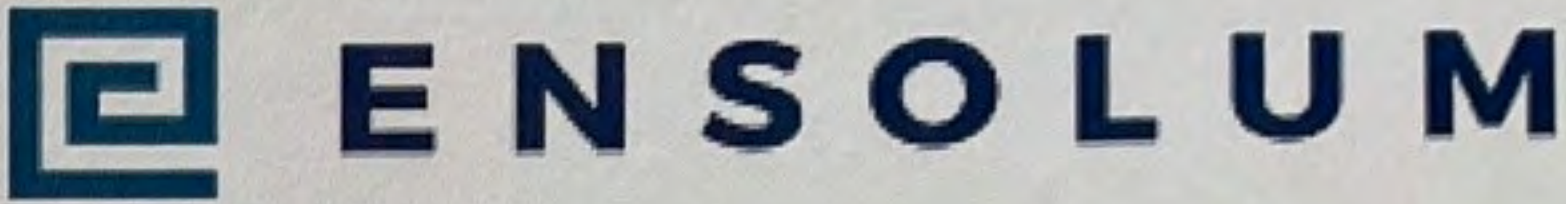
SAMPLE ID:	SVE-1	SAMPLE TIME:	1030
Analytes:	Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)		
OPERATING WELLS			

Change in Well Operation:

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	FLOW (CFM)	OXYGEN	CARBON DIOXIDE
SVE01	59.3	6.2		20.9	2160
SVE02	49.5	1.5		20.9	200
SVE03	53.3	2.0		20.9	3190

COMMENTS/OTHER MAINTENANCE:



SAN JUAN 32-9 #41A SVE SYSTEM
O&M FORM

DATE: 8-24 O&M PERSONNEL: B Sinclair
TIME ONSITE: _____ TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: _____ KO TANK HIGH LEVEL _____

		Check/Date
WEEKLY MAINTENANCE:	Blower Bearing Grease	☒
QUARTERLY MAINTENANCE:	Blower Oil Change	

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	15839.7	1145
Total Flow (scfm)		
Inlet Vacuum (IHG)	5.1	
Differential Pressure (IWC)	6.48	
Inlet PID	2.6	
Exhaust PID	1.8	
exh Inlet Temperature	225	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		

SVE SYSTEM - QUARTERLY SAMPLING

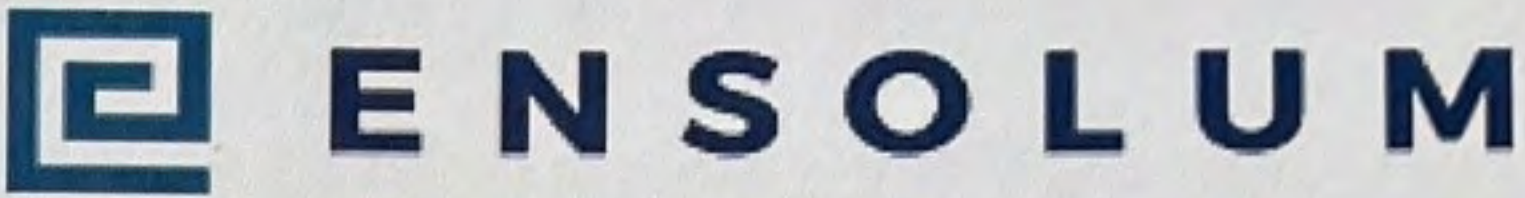
SAMPLE ID:	SAMPLE TIME:
Analytes:	Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)
OPERATING WELLS	

Change in Well Operation:

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	FLOW (CFM)	OXYGEN	CARBON DIOXIDE
SVE01	61.2	5.1		20.9	1620
SVE02	49.7	1.7		20.9	120
SVE03	55.8	2.2		20.9	1880

COMMENTS/OTHER MAINTENANCE:



SAN JUAN 32-9 #41A SVE SYSTEM
O&M FORM

DATE: 9-4
TIME ONSITE: _____

O&M PERSONNEL: B Sinclair
TIME OFFSITE: _____

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: _____ KO TANK HIGH LEVEL _____

WEEKLY MAINTENANCE:	Blower Bearing Grease	Check/Date
QUARTERLY MAINTENANCE:	Blower Oil Change	

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	16124.1	1209
Total Flow (scfm)		
Inlet Vacuum (IHG)	5.1	
Differential Pressure (IWC)	6.35	
Inlet PID	2.1	
Exhaust PID	1.3	
exh Inlet Temperature	210	
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		

SVE SYSTEM - QUARTERLY SAMPLING

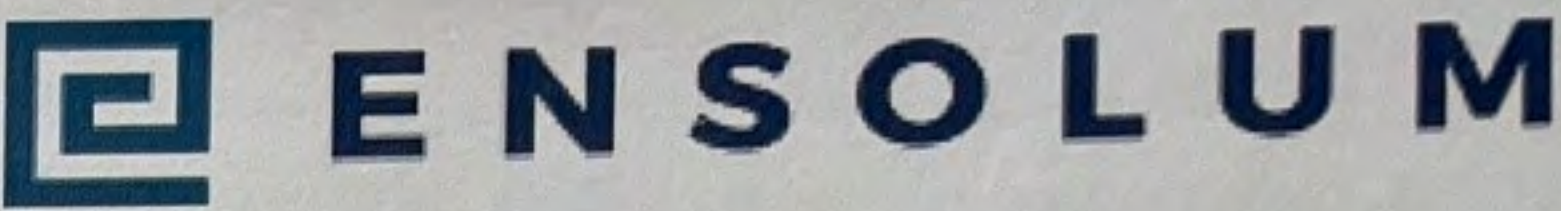
SAMPLE ID:	SAMPLE TIME:
Analytes:	Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)
OPERATING WELLS	

Change in Well Operation: _____

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	FLOW (CFM)	OXYGEN	CARBON DIOXIDE
SVE01	60.7	4.7		20.9	1500
SVE02	49.5	1.8		20.9	160
SVE03	55.6	2.0		20.9	2080

COMMENTS/OTHER MAINTENANCE:



SAN JUAN 32-9 #41A SVE SYSTEM
O&M FORM

DATE: 9-26
TIME ONSITE:

O&M PERSONNEL: B Sinclair
TIME OFFSITE:

SVE SYSTEM - MONTHLY O&M

SVE ALARMS: KO TANK HIGH LEVEL

		Check/Date
WEEKLY MAINTENANCE:	Blower Bearing Grease	✓
QUARTERLY MAINTENANCE:	Blower Oil Change	

SVE SYSTEM	READING	TIME
Blower Hours (take photo)	16629.9	1354
Total Flow (scfm)		
Inlet Vacuum (IHG)		
Differential Pressure (IWC)		
Inlet PID		
Exhaust PID		
Inlet Temperature		
K/O Tank Liquid Level		
K/O Liquid Drained (gallons)		

SVE SYSTEM - QUARTERLY SAMPLING

SAMPLE ID:	SAMPLE TIME:
Analytes:	Sample Bi-Weekly (every other week) for TVPH (8015), BTEX (8260), Fixed Gas (CO2 AND O2)
OPERATING WELLS	

Change in Well Operation:

WELLHEAD MEASUREMENTS

WELL ID	VACUUM (IHG)	PID HEADSPACE (PPM)	FLOW (CFM)	OXYGEN	CARBON DIOXIDE
SVE01	60.9	5.3		20.9	880
SVE02	49.6	1.5		20.9	200
SVE03	54.7	1.9		20.9	1720

COMMENTS/OTHER MAINTENANCE:



APPENDIX C

Project Photographs

PROJECT PHOTOGRAPHS
San Juan 32-9 #41A
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 1 Runtime meter taken on June 30, 2025 at 10:37 AM Hours = 14,538.4	
Photograph 2 Runtime meter taken on September 26, 2025 at 1:54 PM Hours = 16,629.9	



APPENDIX D

Vapor Sample Laboratory Analytical Report



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/27/2025 5:02:37 PM

JOB DESCRIPTION

SJ 32-9 41 A

JOB NUMBER

885-31116-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization



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

Client: Hilcorp Energy
Project/Site: SJ 32-9 41 A

Laboratory Job ID: 885-31116-1

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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: SJ 32-9 41 A

Job ID: 885-31116-1

Glossary

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

Case Narrative

Client: Hilcorp Energy
Project: SJ 32-9 41 A

Job ID: 885-31116-1

Job ID: 885-31116-1

Eurofins Albuquerque

Job Narrative 885-31116-1

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

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

Receipt

The sample was received on 8/15/2025 7:15 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Subcontract Work

Method Fixed Gases: This method was subcontracted to Energy Laboratories, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

GC/MS VOA

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

Gasoline Range Organics

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

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 32-9 41 A

Job ID: 885-31116-1

Client Sample ID: SVE-1

Lab Sample ID: 885-31116-1

Date Collected: 08/13/25 10:30

Matrix: Air

Date Received: 08/15/25 07:15

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	ug/L			08/20/25 19:04	5
1,1,1-Trichloroethane	ND		0.50	ug/L			08/20/25 19:04	5
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L			08/20/25 19:04	5
1,1,2-Trichloroethane	ND		0.50	ug/L			08/20/25 19:04	5
1,1-Dichloroethane	ND		0.50	ug/L			08/20/25 19:04	5
1,1-Dichloroethene	ND		0.50	ug/L			08/20/25 19:04	5
1,1-Dichloropropene	ND		0.50	ug/L			08/20/25 19:04	5
1,2,3-Trichlorobenzene	ND		0.50	ug/L			08/20/25 19:04	5
1,2,3-Trichloropropane	ND		1.0	ug/L			08/20/25 19:04	5
1,2,4-Trichlorobenzene	ND		0.50	ug/L			08/20/25 19:04	5
1,2,4-Trimethylbenzene	ND		0.50	ug/L			08/20/25 19:04	5
1,2-Dibromo-3-Chloropropane	ND		1.0	ug/L			08/20/25 19:04	5
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			08/20/25 19:04	5
1,2-Dichlorobenzene	ND		0.50	ug/L			08/20/25 19:04	5
1,2-Dichloroethane (EDC)	ND		0.50	ug/L			08/20/25 19:04	5
1,2-Dichloropropane	ND		0.50	ug/L			08/20/25 19:04	5
1,3,5-Trimethylbenzene	ND		0.50	ug/L			08/20/25 19:04	5
1,3-Dichlorobenzene	ND		0.50	ug/L			08/20/25 19:04	5
1,3-Dichloropropane	ND		0.50	ug/L			08/20/25 19:04	5
1,4-Dichlorobenzene	ND		0.50	ug/L			08/20/25 19:04	5
1-Methylnaphthalene	ND		2.0	ug/L			08/20/25 19:04	5
2,2-Dichloropropane	ND		1.0	ug/L			08/20/25 19:04	5
2-Butanone	ND		5.0	ug/L			08/20/25 19:04	5
2-Chlorotoluene	ND		0.50	ug/L			08/20/25 19:04	5
2-Hexanone	ND		5.0	ug/L			08/20/25 19:04	5
2-Methylnaphthalene	ND		2.0	ug/L			08/20/25 19:04	5
4-Chlorotoluene	ND		0.50	ug/L			08/20/25 19:04	5
4-Isopropyltoluene	ND		0.50	ug/L			08/20/25 19:04	5
4-Methyl-2-pentanone	ND		5.0	ug/L			08/20/25 19:04	5
Acetone	ND		5.0	ug/L			08/20/25 19:04	5
Benzene	ND		0.50	ug/L			08/20/25 19:04	5
Bromobenzene	ND		0.50	ug/L			08/20/25 19:04	5
Bromodichloromethane	ND		0.50	ug/L			08/20/25 19:04	5
Dibromochloromethane	ND		0.50	ug/L			08/20/25 19:04	5
Bromoform	ND		0.50	ug/L			08/20/25 19:04	5
Bromomethane	ND		1.5	ug/L			08/20/25 19:04	5
Carbon disulfide	ND		5.0	ug/L			08/20/25 19:04	5
Carbon tetrachloride	ND		0.50	ug/L			08/20/25 19:04	5
Chlorobenzene	ND		0.50	ug/L			08/20/25 19:04	5
Chloroethane	ND		1.0	ug/L			08/20/25 19:04	5
Chloroform	ND		0.50	ug/L			08/20/25 19:04	5
Chloromethane	ND		1.5	ug/L			08/20/25 19:04	5
cis-1,2-Dichloroethene	ND		0.50	ug/L			08/20/25 19:04	5
cis-1,3-Dichloropropene	ND		0.50	ug/L			08/20/25 19:04	5
Dibromomethane	ND		0.50	ug/L			08/20/25 19:04	5
Dichlorodifluoromethane	ND		0.50	ug/L			08/20/25 19:04	5
Ethylbenzene	ND		0.50	ug/L			08/20/25 19:04	5
Hexachlorobutadiene	ND		0.50	ug/L			08/20/25 19:04	5

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 32-9 41 A

Job ID: 885-31116-1

Client Sample ID: SVE-1

Lab Sample ID: 885-31116-1

Date Collected: 08/13/25 10:30

Matrix: Air

Date Received: 08/15/25 07:15

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.50	ug/L			08/20/25 19:04	5
Methyl-tert-butyl Ether (MTBE)	ND		0.50	ug/L			08/20/25 19:04	5
Methylene Chloride	ND		1.5	ug/L			08/20/25 19:04	5
n-Butylbenzene	ND		1.5	ug/L			08/20/25 19:04	5
N-Propylbenzene	ND		0.50	ug/L			08/20/25 19:04	5
Naphthalene	ND		1.0	ug/L			08/20/25 19:04	5
sec-Butylbenzene	ND		0.50	ug/L			08/20/25 19:04	5
Styrene	ND		0.50	ug/L			08/20/25 19:04	5
tert-Butylbenzene	ND		0.50	ug/L			08/20/25 19:04	5
Tetrachloroethene (PCE)	ND		0.50	ug/L			08/20/25 19:04	5
Toluene	2.3		0.50	ug/L			08/20/25 19:04	5
trans-1,2-Dichloroethene	ND		0.50	ug/L			08/20/25 19:04	5
trans-1,3-Dichloropropene	ND		0.50	ug/L			08/20/25 19:04	5
Trichloroethene (TCE)	ND		0.50	ug/L			08/20/25 19:04	5
Trichlorofluoromethane	ND		0.50	ug/L			08/20/25 19:04	5
Vinyl chloride	ND		0.50	ug/L			08/20/25 19:04	5
Xylenes, Total	1.8		0.75	ug/L			08/20/25 19:04	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		08/20/25 19:04	5
Toluene-d8 (Surr)	90		70 - 130		08/20/25 19:04	5
4-Bromofluorobenzene (Surr)	91		70 - 130		08/20/25 19:04	5
Dibromofluoromethane (Surr)	85		70 - 130		08/20/25 19:04	5

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	43		5.0	ug/L			08/25/25 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150		08/25/25 16:57	1

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: SJ 32-9 41 A

Job ID: 885-31116-1

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

Lab Sample ID: MB 885-32817/6

Matrix: Air

Analysis Batch: 32817

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.10	ug/L			08/20/25 15:20	1
1,1,1-Trichloroethane	ND		0.10	ug/L			08/20/25 15:20	1
1,1,2,2-Tetrachloroethane	ND		0.20	ug/L			08/20/25 15:20	1
1,1,2-Trichloroethane	ND		0.10	ug/L			08/20/25 15:20	1
1,1-Dichloroethane	ND		0.10	ug/L			08/20/25 15:20	1
1,1-Dichloroethene	ND		0.10	ug/L			08/20/25 15:20	1
1,1-Dichloropropene	ND		0.10	ug/L			08/20/25 15:20	1
1,2,3-Trichlorobenzene	ND		0.10	ug/L			08/20/25 15:20	1
1,2,3-Trichloropropane	ND		0.20	ug/L			08/20/25 15:20	1
1,2,4-Trichlorobenzene	ND		0.10	ug/L			08/20/25 15:20	1
1,2,4-Trimethylbenzene	ND		0.10	ug/L			08/20/25 15:20	1
1,2-Dibromo-3-Chloropropane	ND		0.20	ug/L			08/20/25 15:20	1
1,2-Dibromoethane (EDB)	ND		0.10	ug/L			08/20/25 15:20	1
1,2-Dichlorobenzene	ND		0.10	ug/L			08/20/25 15:20	1
1,2-Dichloroethane (EDC)	ND		0.10	ug/L			08/20/25 15:20	1
1,2-Dichloropropane	ND		0.10	ug/L			08/20/25 15:20	1
1,3,5-Trimethylbenzene	ND		0.10	ug/L			08/20/25 15:20	1
1,3-Dichlorobenzene	ND		0.10	ug/L			08/20/25 15:20	1
1,3-Dichloropropane	ND		0.10	ug/L			08/20/25 15:20	1
1,4-Dichlorobenzene	ND		0.10	ug/L			08/20/25 15:20	1
1-Methylnaphthalene	ND		0.40	ug/L			08/20/25 15:20	1
2,2-Dichloropropane	ND		0.20	ug/L			08/20/25 15:20	1
2-Butanone	ND		1.0	ug/L			08/20/25 15:20	1
2-Chlorotoluene	ND		0.10	ug/L			08/20/25 15:20	1
2-Hexanone	ND		1.0	ug/L			08/20/25 15:20	1
2-Methylnaphthalene	ND		0.40	ug/L			08/20/25 15:20	1
4-Chlorotoluene	ND		0.10	ug/L			08/20/25 15:20	1
4-Isopropyltoluene	ND		0.10	ug/L			08/20/25 15:20	1
4-Methyl-2-pentanone	ND		1.0	ug/L			08/20/25 15:20	1
Acetone	ND		1.0	ug/L			08/20/25 15:20	1
Benzene	ND		0.10	ug/L			08/20/25 15:20	1
Bromobenzene	ND		0.10	ug/L			08/20/25 15:20	1
Bromodichloromethane	ND		0.10	ug/L			08/20/25 15:20	1
Dibromochloromethane	ND		0.10	ug/L			08/20/25 15:20	1
Bromoform	ND		0.10	ug/L			08/20/25 15:20	1
Bromomethane	ND		0.30	ug/L			08/20/25 15:20	1
Carbon disulfide	ND		1.0	ug/L			08/20/25 15:20	1
Carbon tetrachloride	ND		0.10	ug/L			08/20/25 15:20	1
Chlorobenzene	ND		0.10	ug/L			08/20/25 15:20	1
Chloroethane	ND		0.20	ug/L			08/20/25 15:20	1
Chloroform	ND		0.10	ug/L			08/20/25 15:20	1
Chloromethane	ND		0.30	ug/L			08/20/25 15:20	1
cis-1,2-Dichloroethene	ND		0.10	ug/L			08/20/25 15:20	1
cis-1,3-Dichloropropene	ND		0.10	ug/L			08/20/25 15:20	1
Dibromomethane	ND		0.10	ug/L			08/20/25 15:20	1
Dichlorodifluoromethane	ND		0.10	ug/L			08/20/25 15:20	1
Ethylbenzene	ND		0.10	ug/L			08/20/25 15:20	1
Hexachlorobutadiene	ND		0.10	ug/L			08/20/25 15:20	1

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: SJ 32-9 41 A

Job ID: 885-31116-1

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

Lab Sample ID: MB 885-32817/6

Matrix: Air

Analysis Batch: 32817

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Isopropylbenzene	ND		0.10	ug/L			08/20/25 15:20	1
Methyl-tert-butyl Ether (MTBE)	ND		0.10	ug/L			08/20/25 15:20	1
Methylene Chloride	ND		0.30	ug/L			08/20/25 15:20	1
n-Butylbenzene	ND		0.30	ug/L			08/20/25 15:20	1
N-Propylbenzene	ND		0.10	ug/L			08/20/25 15:20	1
Naphthalene	ND		0.20	ug/L			08/20/25 15:20	1
sec-Butylbenzene	ND		0.10	ug/L			08/20/25 15:20	1
Styrene	ND		0.10	ug/L			08/20/25 15:20	1
tert-Butylbenzene	ND		0.10	ug/L			08/20/25 15:20	1
Tetrachloroethene (PCE)	ND		0.10	ug/L			08/20/25 15:20	1
Toluene	ND		0.10	ug/L			08/20/25 15:20	1
trans-1,2-Dichloroethene	ND		0.10	ug/L			08/20/25 15:20	1
trans-1,3-Dichloropropene	ND		0.10	ug/L			08/20/25 15:20	1
Trichloroethene (TCE)	ND		0.10	ug/L			08/20/25 15:20	1
Trichlorofluoromethane	ND		0.10	ug/L			08/20/25 15:20	1
Vinyl chloride	ND		0.10	ug/L			08/20/25 15:20	1
Xylenes, Total	ND		0.15	ug/L			08/20/25 15:20	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		08/20/25 15:20	1
Toluene-d8 (Surr)	86		70 - 130		08/20/25 15:20	1
4-Bromofluorobenzene (Surr)	85		70 - 130		08/20/25 15:20	1
Dibromofluoromethane (Surr)	87		70 - 130		08/20/25 15:20	1

Lab Sample ID: LCS 885-32817/5

Matrix: Air

Analysis Batch: 32817

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.0	18.7		ug/L		93	70 - 130
Benzene	20.0	21.1		ug/L		106	70 - 130
Chlorobenzene	20.0	21.9		ug/L		109	70 - 130
Toluene	20.0	21.8		ug/L		109	70 - 130
Trichloroethene (TCE)	20.0	19.8		ug/L		99	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
Toluene-d8 (Surr)	86		70 - 130
4-Bromofluorobenzene (Surr)	88		70 - 130
Dibromofluoromethane (Surr)	81		70 - 130

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: SJ 32-9 41 A

Job ID: 885-31116-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-33140/5

Matrix: Air

Analysis Batch: 33140

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	ug/L			08/25/25 13:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150				08/25/25 13:45	1

Lab Sample ID: LCS 885-33140/4

Matrix: Air

Analysis Batch: 33140

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	50.0	44.7		ug/L		89	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	191		15 - 150				

Lab Sample ID: 885-31116-1 DU

Matrix: Air

Analysis Batch: 33140

Client Sample ID: SVE-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	43		37.8		ug/L		13	20
Surrogate	DU %Recovery	DU Qualifier	Limits					
4-Bromofluorobenzene (Surr)	102		15 - 150					

Eurofins Albuquerque

QC Association Summary

Client: Hilcorp Energy
Project/Site: SJ 32-9 41 A

Job ID: 885-31116-1

GC/MS VOA

Analysis Batch: 32817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31116-1	SVE-1	Total/NA	Air	8260B	
MB 885-32817/6	Method Blank	Total/NA	Air	8260B	
LCS 885-32817/5	Lab Control Sample	Total/NA	Air	8260B	

GC VOA

Analysis Batch: 33140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31116-1	SVE-1	Total/NA	Air	8015D	
MB 885-33140/5	Method Blank	Total/NA	Air	8015D	
LCS 885-33140/4	Lab Control Sample	Total/NA	Air	8015D	
885-31116-1 DU	SVE-1	Total/NA	Air	8015D	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: SJ 32-9 41 A

Job ID: 885-31116-1

Client Sample ID: SVE-1

Date Collected: 08/13/25 10:30

Date Received: 08/15/25 07:15

Lab Sample ID: 885-31116-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		5	32817	RA	EET ALB	08/20/25 19:04
Total/NA	Analysis	8015D		1	33140	JP	EET ALB	08/25/25 16:57

Laboratory References:

= , 1120 South 27th Street, Billings, MT 59101, TEL (406)252-6325

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: SJ 32-9 41 A

Job ID: 885-31116-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26

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
8015D		Air	Gasoline Range Organics [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: SJ 32-9 41 A

Job ID: 885-31116-1

Laboratory: Eurofins Albuquerque (Continued)

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

Authority	Program	Identification Number	Expiration Date
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		Air	Dibromomethane
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26
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
8015D		Air	Gasoline Range Organics [C6 - C10]
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene

Eurofins Albuquerque

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: SJ 32-9 41 A

Job ID: 885-31116-1

Laboratory: Eurofins Albuquerque (Continued)

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

Authority	Program	Identification Number	Expiration Date
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		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane
8260B		Air	Dibromomethane
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total

Eurofins Albuquerque



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ANALYTICAL SUMMARY REPORT

August 27, 2025

Eurofins TestAmerica - Albuquerque

4901 Hawkins St NE Ste D

Albuquerque, NM 87109-4372

Work Order: B25081755

Quote ID: B15626

Project Name: SJ 32-9 41A 88501698

Energy Laboratories Inc Billings MT received the following 1 sample for Eurofins TestAmerica - Albuquerque on 8/19/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25081755-001	SVE-1 (885-31116-1)	08/13/25 10:30	08/19/25	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond./1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.



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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Eurofins TestAmerica - Albuquerque
Project: SJ 32-9 41A 88501698
Lab ID: B25081755-001
Client Sample ID: SVE-1 (885-31116-1)

Report Date: 08/27/25
Collection Date: 08/13/25 10:30
Date Received: 08/19/25
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	22.30	Mol %		0.01		GPA 2261-13	08/21/25 12:11 / jrj
Nitrogen	77.57	Mol %		0.01		GPA 2261-13	08/21/25 12:11 / jrj
Carbon Dioxide	0.13	Mol %		0.01		GPA 2261-13	08/21/25 12:11 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	08/21/25 12:11 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	08/21/25 12:11 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	08/21/25 12:11 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	08/21/25 12:11 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	08/21/25 12:11 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	08/21/25 12:11 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	08/21/25 12:11 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	08/21/25 12:11 / jrj
Hexanes plus	<0.01	Mol %		0.01		GPA 2261-13	08/21/25 12:11 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	08/21/25 12:11 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	08/21/25 12:11 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	08/21/25 12:11 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	08/21/25 12:11 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	08/21/25 12:11 / jrj
Hexanes plus	< 0.001	gpm		0.001		GPA 2261-13	08/21/25 12:11 / jrj
GPM Total	< 0.001	gpm		0.001		GPA 2261-13	08/21/25 12:11 / jrj
GPM Pentanes plus	< 0.001	gpm		0.001		GPA 2261-13	08/21/25 12:11 / jrj

CALCULATED PROPERTIES

Gross BTU per cu ft @ Std Cond. (HHV)	ND		1		GPA 2261-13	08/21/25 12:11 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND		1		GPA 2261-13	08/21/25 12:11 / jrj
Pseudo-critical Pressure, psia	547		1		GPA 2261-13	08/21/25 12:11 / jrj
Pseudo-critical Temperature, deg R	239		1		GPA 2261-13	08/21/25 12:11 / jrj
Specific Gravity @ 60/60F	0.999		0.001		D3588-17	08/21/25 12:11 / jrj
Air, %	101.91		0.01		GPA 2261-13	08/21/25 12:11 / jrj

- The analysis was not corrected for air.

COMMENTS

-						08/21/25 12:11 / jrj
- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior. - GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions. - To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825. - Standard conditions: 60 F & 14.73 psi on a dry basis.						

Report Definitions: RL - Analyte Reporting Limit
QCL - Quality Control Limit

MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)



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QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25081755

Report Date: 08/27/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: GPA 2261-13									Batch: R447948	
Lab ID: B25081762-001ADUP	12	Sample Duplicate				Run: GC7890_250821A			08/21/25 15:28	
Oxygen		22.0	Mol %	0.01				2.5	20	
Nitrogen		78.0	Mol %	0.01				0.7	20	
Carbon Dioxide		0.08	Mol %	0.01				0.0	20	
Hydrogen Sulfide		<0.01	Mol %	0.01					20	
Methane		<0.01	Mol %	0.01					20	
Ethane		<0.01	Mol %	0.01					20	
Propane		<0.01	Mol %	0.01					20	
Isobutane		<0.01	Mol %	0.01					20	
n-Butane		<0.01	Mol %	0.01					20	
Isopentane		<0.01	Mol %	0.01					20	
n-Pentane		<0.01	Mol %	0.01					20	
Hexanes plus		0.02	Mol %	0.01				0.0	20	
Lab ID: LCS082125									08/21/25 17:50	
	11	Laboratory Control Sample				Run: GC7890_250821A				
Oxygen		0.61	Mol %	0.01	124	70	130			
Nitrogen		6.24	Mol %	0.01	106	70	130			
Carbon Dioxide		0.97	Mol %	0.01	97	70	130			
Methane		76.2	Mol %	0.01	100	70	130			
Ethane		6.02	Mol %	0.01	99	70	130			
Propane		5.07	Mol %	0.01	102	70	130			
Isobutane		1.76	Mol %	0.01	88	70	130			
n-Butane		1.88	Mol %	0.01	94	70	130			
Isopentane		0.50	Mol %	0.01	100	70	130			
n-Pentane		0.51	Mol %	0.01	102	70	130			
Hexanes plus		0.21	Mol %	0.01	102	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



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Work Order Receipt Checklist

Eurofins TestAmerica - Albuquerque

B25081755

Login completed by: Crystal M. Jones

Date Received: 8/19/2025

Reviewed by: dharris

Received by: SW

Reviewed Date: 8/20/2025

Carrier name: FedEx NDA

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☐	No ☒	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☒	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☒	Not Applicable ☐
Container/Temp Blank temperature:	22.8°C No Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☒

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

The temperature of the sample(s) in shipping container 1 was 22.8°C and shipping container 2 was 21.6°C. CMJ
08/19/25



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Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
Billings, MT  	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
	Florida (Primary NELAP)	E87668
	Idaho	MT00005
	Louisiana	05079
	Montana	CERT0044
	Nebraska	NE-OS-13-04
	Nevada	NV-C24-00250
	North Dakota	R-007
	National Radon Proficiency	109383-RMP
	Oregon	4184
	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
Casper, WY 	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
	Montana	CERT0002
	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
Helena, MT	Colorado	MT00945
	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

4901 Hawkins NE
Albuquerque, NM 87109
Phone: 505-345-3975 Fax: 505-345-4107



Environment Testing

[illegible]

Ver: 10/10/2024

ICOC No:
885-6172

Containers

<u>Count</u>	<u>Container Type</u>	<u>Preservative</u>
1	Tedlar Bag 1L	None

Subcontract Method Instructions

Sample IDs	Method	Method Description	Method Comments
1	SUBCONTRACT	SUB - Subcontract - Fixed Gases	Fixed Gases

☒ Standard ☐ Rush _____

8/27/2025

Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-31116-1

Login Number: 31116

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



APPENDIX E

Performance Soil Sample Laboratory Analytical Report



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/29/2025 5:37:56 PM

JOB DESCRIPTION

San Juan 32-9 #41A

JOB NUMBER

885-33590-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

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

Authorization



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9/29/2025 5:37:56 PM

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

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Laboratory Job ID: 885-33590-1

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Chain of Custody	27
Receipt Checklists	28

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Definitions/Glossary

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

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: San Juan 32-9 #41A

Job ID: 885-33590-1

Job ID: 885-33590-1

Eurofins Albuquerque

Job Narrative 885-33590-1

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

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

Receipt

The samples were received on 9/18/2025 7:15 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 3.2°C.

Gasoline Range Organics

Method 8015D_GRO: Surrogate recovery for the following sample was outside control limits: BH10@5' (885-33590-9). Evidence of matrix interference due to high target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-35334 and analytical batch 885-35290 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015D_DRO: Surrogate recovery for the following sample is outside the upper control limit: (CCV 885-35290/39). Corresponding CCV shows high surrogate. However samples show surrogate within range, therefore data is reported.

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

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Client Sample ID: BH08@5'

Lab Sample ID: 885-33590-1

Date Collected: 09/17/25 09:21

Matrix: Solid

Date Received: 09/18/25 07:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/19/25 14:32	09/24/25 14:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			09/19/25 14:32	09/24/25 14:57	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/19/25 14:32	09/24/25 14:57	1
Ethylbenzene	ND		0.050	mg/Kg		09/19/25 14:32	09/24/25 14:57	1
Toluene	ND		0.050	mg/Kg		09/19/25 14:32	09/24/25 14:57	1
Xylenes, Total	ND		0.10	mg/Kg		09/19/25 14:32	09/24/25 14:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 150			09/19/25 14:32	09/24/25 14:57	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	15	F1	9.7	mg/Kg		09/24/25 11:37	09/24/25 16:35	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/24/25 11:37	09/24/25 16:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			09/24/25 11:37	09/24/25 16:35	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Client Sample ID: BH08@10'

Lab Sample ID: 885-33590-2

Date Collected: 09/17/25 09:27

Matrix: Solid

Date Received: 09/18/25 07:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/19/25 14:32	09/24/25 16:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			09/19/25 14:32	09/24/25 16:08	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/19/25 14:32	09/24/25 16:08	1
Ethylbenzene	ND		0.048	mg/Kg		09/19/25 14:32	09/24/25 16:08	1
Toluene	ND		0.048	mg/Kg		09/19/25 14:32	09/24/25 16:08	1
Xylenes, Total	ND		0.096	mg/Kg		09/19/25 14:32	09/24/25 16:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			09/19/25 14:32	09/24/25 16:08	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		09/24/25 11:37	09/24/25 17:09	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/24/25 11:37	09/24/25 17:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134			09/24/25 11:37	09/24/25 17:09	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Client Sample ID: BH08@15'

Lab Sample ID: 885-33590-3

Date Collected: 09/17/25 09:36

Matrix: Solid

Date Received: 09/18/25 07:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		09/19/25 14:32	09/24/25 17:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			09/19/25 14:32	09/24/25 17:18	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/19/25 14:32	09/24/25 17:18	1
Ethylbenzene	ND		0.047	mg/Kg		09/19/25 14:32	09/24/25 17:18	1
Toluene	ND		0.047	mg/Kg		09/19/25 14:32	09/24/25 17:18	1
Xylenes, Total	ND		0.095	mg/Kg		09/19/25 14:32	09/24/25 17:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 150			09/19/25 14:32	09/24/25 17:18	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		09/24/25 11:37	09/24/25 17:20	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/24/25 11:37	09/24/25 17:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	85		62 - 134			09/24/25 11:37	09/24/25 17:20	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Client Sample ID: BH08@20'

Lab Sample ID: 885-33590-4

Date Collected: 09/17/25 09:51

Matrix: Solid

Date Received: 09/18/25 07:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/19/25 14:32	09/24/25 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			09/19/25 14:32	09/24/25 17:41	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/19/25 14:32	09/24/25 17:41	1
Ethylbenzene	ND		0.049	mg/Kg		09/19/25 14:32	09/24/25 17:41	1
Toluene	ND		0.049	mg/Kg		09/19/25 14:32	09/24/25 17:41	1
Xylenes, Total	ND		0.098	mg/Kg		09/19/25 14:32	09/24/25 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			09/19/25 14:32	09/24/25 17:41	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		09/24/25 11:37	09/24/25 17:32	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/24/25 11:37	09/24/25 17:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	87		62 - 134			09/24/25 11:37	09/24/25 17:32	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Client Sample ID: BH09@5'

Lab Sample ID: 885-33590-5

Date Collected: 09/17/25 10:12

Matrix: Solid

Date Received: 09/18/25 07:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/19/25 14:32	09/24/25 18:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			09/19/25 14:32	09/24/25 18:04	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/19/25 14:32	09/24/25 18:04	1
Ethylbenzene	ND		0.048	mg/Kg		09/19/25 14:32	09/24/25 18:04	1
Toluene	ND		0.048	mg/Kg		09/19/25 14:32	09/24/25 18:04	1
Xylenes, Total	ND		0.097	mg/Kg		09/19/25 14:32	09/24/25 18:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 150			09/19/25 14:32	09/24/25 18:04	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12		9.8	mg/Kg		09/24/25 11:37	09/24/25 17:43	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/24/25 11:37	09/24/25 17:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	86		62 - 134			09/24/25 11:37	09/24/25 17:43	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Client Sample ID: BH09@10'

Lab Sample ID: 885-33590-6

Date Collected: 09/17/25 10:18

Matrix: Solid

Date Received: 09/18/25 07:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/19/25 14:32	09/24/25 18:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			09/19/25 14:32	09/24/25 18:28	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/19/25 14:32	09/24/25 18:28	1
Ethylbenzene	ND		0.049	mg/Kg		09/19/25 14:32	09/24/25 18:28	1
Toluene	ND		0.049	mg/Kg		09/19/25 14:32	09/24/25 18:28	1
Xylenes, Total	ND		0.098	mg/Kg		09/19/25 14:32	09/24/25 18:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150			09/19/25 14:32	09/24/25 18:28	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		09/24/25 11:37	09/24/25 17:55	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/24/25 11:37	09/24/25 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	88		62 - 134			09/24/25 11:37	09/24/25 17:55	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Client Sample ID: BH09@15'

Lab Sample ID: 885-33590-7

Date Collected: 09/17/25 10:30

Matrix: Solid

Date Received: 09/18/25 07:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/19/25 14:32	09/24/25 18:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			09/19/25 14:32	09/24/25 18:51	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/19/25 14:32	09/24/25 18:51	1
Ethylbenzene	ND		0.049	mg/Kg		09/19/25 14:32	09/24/25 18:51	1
Toluene	ND		0.049	mg/Kg		09/19/25 14:32	09/24/25 18:51	1
Xylenes, Total	ND		0.099	mg/Kg		09/19/25 14:32	09/24/25 18:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 150			09/19/25 14:32	09/24/25 18:51	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		09/24/25 11:37	09/24/25 18:06	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/24/25 11:37	09/24/25 18:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	85		62 - 134			09/24/25 11:37	09/24/25 18:06	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Client Sample ID: BH09@20'

Lab Sample ID: 885-33590-8

Date Collected: 09/17/25 10:42

Matrix: Solid

Date Received: 09/18/25 07:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/19/25 14:32	09/24/25 19:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			09/19/25 14:32	09/24/25 19:15	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/19/25 14:32	09/24/25 19:15	1
Ethylbenzene	ND		0.049	mg/Kg		09/19/25 14:32	09/24/25 19:15	1
Toluene	ND		0.049	mg/Kg		09/19/25 14:32	09/24/25 19:15	1
Xylenes, Total	ND		0.099	mg/Kg		09/19/25 14:32	09/24/25 19:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150			09/19/25 14:32	09/24/25 19:15	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/24/25 11:37	09/24/25 18:18	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/24/25 11:37	09/24/25 18:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	87		62 - 134			09/24/25 11:37	09/24/25 18:18	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Client Sample ID: BH10@5'

Lab Sample ID: 885-33590-9

Date Collected: 09/17/25 11:05

Matrix: Solid

Date Received: 09/18/25 07:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	66		4.9	mg/Kg		09/19/25 14:32	09/24/25 19:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	203	S1+	15 - 150			09/19/25 14:32	09/24/25 19:39	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/19/25 14:32	09/24/25 19:39	1
Ethylbenzene	0.26		0.049	mg/Kg		09/19/25 14:32	09/24/25 19:39	1
Toluene	ND		0.049	mg/Kg		09/19/25 14:32	09/24/25 19:39	1
Xylenes, Total	0.18		0.098	mg/Kg		09/19/25 14:32	09/24/25 19:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		15 - 150			09/19/25 14:32	09/24/25 19:39	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	42		9.2	mg/Kg		09/24/25 11:37	09/24/25 18:29	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/24/25 11:37	09/24/25 18:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			09/24/25 11:37	09/24/25 18:29	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Client Sample ID: BH10@10'

Lab Sample ID: 885-33590-10

Date Collected: 09/17/25 11:09

Matrix: Solid

Date Received: 09/18/25 07:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/19/25 14:32	09/25/25 14:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 150			09/19/25 14:32	09/25/25 14:57	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/19/25 14:32	09/24/25 20:02	1
Ethylbenzene	ND		0.050	mg/Kg		09/19/25 14:32	09/24/25 20:02	1
Toluene	ND		0.050	mg/Kg		09/19/25 14:32	09/24/25 20:02	1
Xylenes, Total	ND		0.10	mg/Kg		09/19/25 14:32	09/24/25 20:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		15 - 150			09/19/25 14:32	09/24/25 20:02	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		09/24/25 11:37	09/24/25 18:41	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/24/25 11:37	09/24/25 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	118		62 - 134			09/24/25 11:37	09/24/25 18:41	1

Eurofins Albuquerque

Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Client Sample ID: BH10@15'

Lab Sample ID: 885-33590-11

Date Collected: 09/17/25 11:16

Matrix: Solid

Date Received: 09/18/25 07:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		09/19/25 14:32	09/24/25 20:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			09/19/25 14:32	09/24/25 20:49	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/19/25 14:32	09/24/25 20:49	1
Ethylbenzene	ND		0.047	mg/Kg		09/19/25 14:32	09/24/25 20:49	1
Toluene	ND		0.047	mg/Kg		09/19/25 14:32	09/24/25 20:49	1
Xylenes, Total	ND		0.095	mg/Kg		09/19/25 14:32	09/24/25 20:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 150			09/19/25 14:32	09/24/25 20:49	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		09/24/25 11:37	09/24/25 18:53	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/24/25 11:37	09/24/25 18:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134			09/24/25 11:37	09/24/25 18:53	1

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Client Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Client Sample ID: BH10@20'

Lab Sample ID: 885-33590-12

Date Collected: 09/17/25 11:23

Matrix: Solid

Date Received: 09/18/25 07:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/19/25 14:32	09/24/25 21:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			09/19/25 14:32	09/24/25 21:13	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/19/25 14:32	09/24/25 21:13	1
Ethylbenzene	ND		0.049	mg/Kg		09/19/25 14:32	09/24/25 21:13	1
Toluene	ND		0.049	mg/Kg		09/19/25 14:32	09/24/25 21:13	1
Xylenes, Total	ND		0.098	mg/Kg		09/19/25 14:32	09/24/25 21:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 150			09/19/25 14:32	09/24/25 21:13	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		09/24/25 11:37	09/24/25 19:04	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/24/25 11:37	09/24/25 19:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	85		62 - 134			09/24/25 11:37	09/24/25 19:04	1

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-35072/1-A

Matrix: Solid

Analysis Batch: 35335

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35072

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/19/25 14:32	09/24/25 14:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 150			09/19/25 14:32	09/24/25 14:34	1

Lab Sample ID: LCS 885-35072/2-A

Matrix: Solid

Analysis Batch: 35335

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	21.6		mg/Kg		86	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	199		15 - 150				

Lab Sample ID: 885-33590-1 MS

Matrix: Solid

Analysis Batch: 35335

Client Sample ID: BH08@5'

Prep Type: Total/NA

Prep Batch: 35072

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		25.0	21.5		mg/Kg		86	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	189		15 - 150						

Lab Sample ID: 885-33590-1 MSD

Matrix: Solid

Analysis Batch: 35335

Client Sample ID: BH08@5'

Prep Type: Total/NA

Prep Batch: 35072

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		24.8	22.0		mg/Kg		89	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	190		15 - 150								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-35072/1-A

Matrix: Solid

Analysis Batch: 35336

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35072

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/19/25 14:32	09/24/25 14:34	1
Ethylbenzene	ND		0.050	mg/Kg		09/19/25 14:32	09/24/25 14:34	1
Toluene	ND		0.050	mg/Kg		09/19/25 14:32	09/24/25 14:34	1

Eurofins Albuquerque

QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-35072/1-A

Matrix: Solid

Analysis Batch: 35336

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35072

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		09/19/25 14:32	09/24/25 14:34	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 150			09/19/25 14:32	09/24/25 14:34	1

Lab Sample ID: LCS 885-35072/3-A

Matrix: Solid

Analysis Batch: 35336

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.04		mg/Kg		104	70 - 130
Ethylbenzene	1.00	1.04		mg/Kg		104	70 - 130
m&p-Xylene	2.00	2.10		mg/Kg		105	70 - 130
o-Xylene	1.00	1.03		mg/Kg		103	70 - 130
Toluene	1.00	1.04		mg/Kg		104	70 - 130
Xylenes, Total	3.00	3.13		mg/Kg		104	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	107		15 - 150				

Lab Sample ID: 885-33590-2 MS

Matrix: Solid

Analysis Batch: 35336

Client Sample ID: BH08@10'

Prep Type: Total/NA

Prep Batch: 35072

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.963	0.936		mg/Kg		97	70 - 130
Ethylbenzene	ND		0.963	0.924		mg/Kg		95	70 - 130
m&p-Xylene	ND		1.93	1.87		mg/Kg		96	70 - 130
o-Xylene	ND		0.963	0.912		mg/Kg		93	70 - 130
Toluene	ND		0.963	0.931		mg/Kg		97	70 - 130
Xylenes, Total	ND		2.89	2.78		mg/Kg		95	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		15 - 150						

Lab Sample ID: 885-33590-2 MSD

Matrix: Solid

Analysis Batch: 35336

Client Sample ID: BH08@10'

Prep Type: Total/NA

Prep Batch: 35072

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		0.968	0.920		mg/Kg		95	70 - 130	2	20
Ethylbenzene	ND		0.968	0.918		mg/Kg		94	70 - 130	1	20
m&p-Xylene	ND		1.94	1.83		mg/Kg		93	70 - 130	2	20
o-Xylene	ND		0.968	0.907		mg/Kg		92	70 - 130	1	20
Toluene	ND		0.968	0.927		mg/Kg		96	70 - 130	0	20
Xylenes, Total	ND		2.90	2.73		mg/Kg		93	70 - 130	2	20

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QC Sample Results

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-33590-2 MSD

Matrix: Solid

Analysis Batch: 35336

Client Sample ID: BH08@10'

Prep Type: Total/NA

Prep Batch: 35072

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		15 - 150

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-35334/1-A

Matrix: Solid

Analysis Batch: 35290

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35334

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/24/25 11:36	09/24/25 16:12	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/24/25 11:36	09/24/25 16:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	85		62 - 134			09/24/25 11:36	09/24/25 16:12	1

Lab Sample ID: LCS 885-35334/2-A

Matrix: Solid

Analysis Batch: 35290

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35334

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	39.3		mg/Kg		79	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	82		62 - 134				

Lab Sample ID: 885-33590-1 MS

Matrix: Solid

Analysis Batch: 35290

Client Sample ID: BH08@5'

Prep Type: Total/NA

Prep Batch: 35334

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	15	F1	47.8	42.7		mg/Kg		58	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	108		62 - 134						

Lab Sample ID: 885-33590-1 MSD

Matrix: Solid

Analysis Batch: 35290

Client Sample ID: BH08@5'

Prep Type: Total/NA

Prep Batch: 35334

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	15	F1	46.3	31.0	F1	mg/Kg		34	44 - 136	32	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	86		62 - 134								

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QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

GC VOA

Prep Batch: 35072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33590-1	BH08@5'	Total/NA	Solid	5030C	
885-33590-2	BH08@10'	Total/NA	Solid	5030C	
885-33590-3	BH08@15'	Total/NA	Solid	5030C	
885-33590-4	BH08@20'	Total/NA	Solid	5030C	
885-33590-5	BH09@5'	Total/NA	Solid	5030C	
885-33590-6	BH09@10'	Total/NA	Solid	5030C	
885-33590-7	BH09@15'	Total/NA	Solid	5030C	
885-33590-8	BH09@20'	Total/NA	Solid	5030C	
885-33590-9	BH10@5'	Total/NA	Solid	5030C	
885-33590-10	BH10@10'	Total/NA	Solid	5030C	
885-33590-11	BH10@15'	Total/NA	Solid	5030C	
885-33590-12	BH10@20'	Total/NA	Solid	5030C	
MB 885-35072/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-35072/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-35072/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-33590-1 MS	BH08@5'	Total/NA	Solid	5030C	
885-33590-1 MSD	BH08@5'	Total/NA	Solid	5030C	
885-33590-2 MS	BH08@10'	Total/NA	Solid	5030C	
885-33590-2 MSD	BH08@10'	Total/NA	Solid	5030C	

Analysis Batch: 35335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33590-1	BH08@5'	Total/NA	Solid	8015M/D	35072
885-33590-2	BH08@10'	Total/NA	Solid	8015M/D	35072
885-33590-3	BH08@15'	Total/NA	Solid	8015M/D	35072
885-33590-4	BH08@20'	Total/NA	Solid	8015M/D	35072
885-33590-5	BH09@5'	Total/NA	Solid	8015M/D	35072
885-33590-6	BH09@10'	Total/NA	Solid	8015M/D	35072
885-33590-7	BH09@15'	Total/NA	Solid	8015M/D	35072
885-33590-8	BH09@20'	Total/NA	Solid	8015M/D	35072
885-33590-9	BH10@5'	Total/NA	Solid	8015M/D	35072
885-33590-11	BH10@15'	Total/NA	Solid	8015M/D	35072
885-33590-12	BH10@20'	Total/NA	Solid	8015M/D	35072
MB 885-35072/1-A	Method Blank	Total/NA	Solid	8015M/D	35072
LCS 885-35072/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	35072
885-33590-1 MS	BH08@5'	Total/NA	Solid	8015M/D	35072
885-33590-1 MSD	BH08@5'	Total/NA	Solid	8015M/D	35072

Analysis Batch: 35336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33590-1	BH08@5'	Total/NA	Solid	8021B	35072
885-33590-2	BH08@10'	Total/NA	Solid	8021B	35072
885-33590-3	BH08@15'	Total/NA	Solid	8021B	35072
885-33590-4	BH08@20'	Total/NA	Solid	8021B	35072
885-33590-5	BH09@5'	Total/NA	Solid	8021B	35072
885-33590-6	BH09@10'	Total/NA	Solid	8021B	35072
885-33590-7	BH09@15'	Total/NA	Solid	8021B	35072
885-33590-8	BH09@20'	Total/NA	Solid	8021B	35072
885-33590-9	BH10@5'	Total/NA	Solid	8021B	35072
885-33590-10	BH10@10'	Total/NA	Solid	8021B	35072
885-33590-11	BH10@15'	Total/NA	Solid	8021B	35072

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QC Association Summary

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

GC VOA (Continued)

Analysis Batch: 35336 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33590-12	BH10@20'	Total/NA	Solid	8021B	35072
MB 885-35072/1-A	Method Blank	Total/NA	Solid	8021B	35072
LCS 885-35072/3-A	Lab Control Sample	Total/NA	Solid	8021B	35072
885-33590-2 MS	BH08@10'	Total/NA	Solid	8021B	35072
885-33590-2 MSD	BH08@10'	Total/NA	Solid	8021B	35072

Analysis Batch: 35410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33590-10	BH10@10'	Total/NA	Solid	8015M/D	35072

GC Semi VOA

Analysis Batch: 35290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33590-1	BH08@5'	Total/NA	Solid	8015M/D	35334
885-33590-2	BH08@10'	Total/NA	Solid	8015M/D	35334
885-33590-3	BH08@15'	Total/NA	Solid	8015M/D	35334
885-33590-4	BH08@20'	Total/NA	Solid	8015M/D	35334
885-33590-5	BH09@5'	Total/NA	Solid	8015M/D	35334
885-33590-6	BH09@10'	Total/NA	Solid	8015M/D	35334
885-33590-7	BH09@15'	Total/NA	Solid	8015M/D	35334
885-33590-8	BH09@20'	Total/NA	Solid	8015M/D	35334
885-33590-9	BH10@5'	Total/NA	Solid	8015M/D	35334
885-33590-10	BH10@10'	Total/NA	Solid	8015M/D	35334
885-33590-11	BH10@15'	Total/NA	Solid	8015M/D	35334
885-33590-12	BH10@20'	Total/NA	Solid	8015M/D	35334
MB 885-35334/1-A	Method Blank	Total/NA	Solid	8015M/D	35334
LCS 885-35334/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	35334
885-33590-1 MS	BH08@5'	Total/NA	Solid	8015M/D	35334
885-33590-1 MSD	BH08@5'	Total/NA	Solid	8015M/D	35334

Prep Batch: 35334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-33590-1	BH08@5'	Total/NA	Solid	SHAKE	
885-33590-2	BH08@10'	Total/NA	Solid	SHAKE	
885-33590-3	BH08@15'	Total/NA	Solid	SHAKE	
885-33590-4	BH08@20'	Total/NA	Solid	SHAKE	
885-33590-5	BH09@5'	Total/NA	Solid	SHAKE	
885-33590-6	BH09@10'	Total/NA	Solid	SHAKE	
885-33590-7	BH09@15'	Total/NA	Solid	SHAKE	
885-33590-8	BH09@20'	Total/NA	Solid	SHAKE	
885-33590-9	BH10@5'	Total/NA	Solid	SHAKE	
885-33590-10	BH10@10'	Total/NA	Solid	SHAKE	
885-33590-11	BH10@15'	Total/NA	Solid	SHAKE	
885-33590-12	BH10@20'	Total/NA	Solid	SHAKE	
MB 885-35334/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-35334/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-33590-1 MS	BH08@5'	Total/NA	Solid	SHAKE	
885-33590-1 MSD	BH08@5'	Total/NA	Solid	SHAKE	

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Client Sample ID: BH08@5'

Lab Sample ID: 885-33590-1

Date Collected: 09/17/25 09:21

Matrix: Solid

Date Received: 09/18/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8015M/D		1	35335	KLS	EET ALB	09/24/25 14:57
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8021B		1	35336	KLS	EET ALB	09/24/25 14:57
Total/NA	Prep	SHAKE			35334	BZR	EET ALB	09/24/25 11:37
Total/NA	Analysis	8015M/D		1	35290	EM	EET ALB	09/24/25 16:35

Client Sample ID: BH08@10'

Lab Sample ID: 885-33590-2

Date Collected: 09/17/25 09:27

Matrix: Solid

Date Received: 09/18/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8015M/D		1	35335	KLS	EET ALB	09/24/25 16:08
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8021B		1	35336	KLS	EET ALB	09/24/25 16:08
Total/NA	Prep	SHAKE			35334	BZR	EET ALB	09/24/25 11:37
Total/NA	Analysis	8015M/D		1	35290	EM	EET ALB	09/24/25 17:09

Client Sample ID: BH08@15'

Lab Sample ID: 885-33590-3

Date Collected: 09/17/25 09:36

Matrix: Solid

Date Received: 09/18/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8015M/D		1	35335	KLS	EET ALB	09/24/25 17:18
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8021B		1	35336	KLS	EET ALB	09/24/25 17:18
Total/NA	Prep	SHAKE			35334	BZR	EET ALB	09/24/25 11:37
Total/NA	Analysis	8015M/D		1	35290	EM	EET ALB	09/24/25 17:20

Client Sample ID: BH08@20'

Lab Sample ID: 885-33590-4

Date Collected: 09/17/25 09:51

Matrix: Solid

Date Received: 09/18/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8015M/D		1	35335	KLS	EET ALB	09/24/25 17:41
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8021B		1	35336	KLS	EET ALB	09/24/25 17:41
Total/NA	Prep	SHAKE			35334	BZR	EET ALB	09/24/25 11:37
Total/NA	Analysis	8015M/D		1	35290	EM	EET ALB	09/24/25 17:32

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Client Sample ID: BH09@5'

Lab Sample ID: 885-33590-5

Date Collected: 09/17/25 10:12

Matrix: Solid

Date Received: 09/18/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8015M/D		1	35335	KLS	EET ALB	09/24/25 18:04
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8021B		1	35336	KLS	EET ALB	09/24/25 18:04
Total/NA	Prep	SHAKE			35334	BZR	EET ALB	09/24/25 11:37
Total/NA	Analysis	8015M/D		1	35290	EM	EET ALB	09/24/25 17:43

Client Sample ID: BH09@10'

Lab Sample ID: 885-33590-6

Date Collected: 09/17/25 10:18

Matrix: Solid

Date Received: 09/18/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8015M/D		1	35335	KLS	EET ALB	09/24/25 18:28
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8021B		1	35336	KLS	EET ALB	09/24/25 18:28
Total/NA	Prep	SHAKE			35334	BZR	EET ALB	09/24/25 11:37
Total/NA	Analysis	8015M/D		1	35290	EM	EET ALB	09/24/25 17:55

Client Sample ID: BH09@15'

Lab Sample ID: 885-33590-7

Date Collected: 09/17/25 10:30

Matrix: Solid

Date Received: 09/18/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8015M/D		1	35335	KLS	EET ALB	09/24/25 18:51
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8021B		1	35336	KLS	EET ALB	09/24/25 18:51
Total/NA	Prep	SHAKE			35334	BZR	EET ALB	09/24/25 11:37
Total/NA	Analysis	8015M/D		1	35290	EM	EET ALB	09/24/25 18:06

Client Sample ID: BH09@20'

Lab Sample ID: 885-33590-8

Date Collected: 09/17/25 10:42

Matrix: Solid

Date Received: 09/18/25 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8015M/D		1	35335	KLS	EET ALB	09/24/25 19:15
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8021B		1	35336	KLS	EET ALB	09/24/25 19:15
Total/NA	Prep	SHAKE			35334	BZR	EET ALB	09/24/25 11:37
Total/NA	Analysis	8015M/D		1	35290	EM	EET ALB	09/24/25 18:18

Eurofins Albuquerque

Lab Chronicle

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Client Sample ID: BH10@5'
Date Collected: 09/17/25 11:05
Date Received: 09/18/25 07:15

Lab Sample ID: 885-33590-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8015M/D		1	35335	KLS	EET ALB	09/24/25 19:39
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8021B		1	35336	KLS	EET ALB	09/24/25 19:39
Total/NA	Prep	SHAKE			35334	BZR	EET ALB	09/24/25 11:37
Total/NA	Analysis	8015M/D		1	35290	EM	EET ALB	09/24/25 18:29

Client Sample ID: BH10@10'
Date Collected: 09/17/25 11:09
Date Received: 09/18/25 07:15

Lab Sample ID: 885-33590-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8015M/D		1	35410	KLS	EET ALB	09/25/25 14:57
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8021B		1	35336	KLS	EET ALB	09/24/25 20:02
Total/NA	Prep	SHAKE			35334	BZR	EET ALB	09/24/25 11:37
Total/NA	Analysis	8015M/D		1	35290	EM	EET ALB	09/24/25 18:41

Client Sample ID: BH10@15'
Date Collected: 09/17/25 11:16
Date Received: 09/18/25 07:15

Lab Sample ID: 885-33590-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8015M/D		1	35335	KLS	EET ALB	09/24/25 20:49
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8021B		1	35336	KLS	EET ALB	09/24/25 20:49
Total/NA	Prep	SHAKE			35334	BZR	EET ALB	09/24/25 11:37
Total/NA	Analysis	8015M/D		1	35290	EM	EET ALB	09/24/25 18:53

Client Sample ID: BH10@20'
Date Collected: 09/17/25 11:23
Date Received: 09/18/25 07:15

Lab Sample ID: 885-33590-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8015M/D		1	35335	KLS	EET ALB	09/24/25 21:13
Total/NA	Prep	5030C			35072	JP	EET ALB	09/19/25 14:32
Total/NA	Analysis	8021B		1	35336	KLS	EET ALB	09/24/25 21:13
Total/NA	Prep	SHAKE			35334	BZR	EET ALB	09/24/25 11:37
Total/NA	Analysis	8015M/D		1	35290	EM	EET ALB	09/24/25 19:04

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: San Juan 32-9 #41A

Job ID: 885-33590-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26
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
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-26

Chain-of-Custody Record

Client: Hilcorp Energy Company

attn: Mitch Killough

Mailing Address:

Phone #:

email or Fax#: mk:llough@hilcorp.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

5 days
☒ Standard ☐ Rush

Project Name:

San Juan 32-9 #41A

Project #:

Project Manager:

Stuart Hyde
shyde@ensolum.com

Sampler: Osgood Froelich

On Ice: ☒ Yes ☐ No

of Coolers: 1 Abby

Cooler Temp (including CF): 3.4-0.2=3.2 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
9/17/25	0921	soil	BH08@5'	4 oz, one	on ice	
	0927		BH08@10'			
	0936		BH08@15'			
	0951		BH08@20'			
	1012		BH09@5'			
	1018		BH09@10'			
	1030		BH09@15'			
	1042		BH09@20'			
	1105		BH10@5'			
	1109		BH10@10'			
	1116		BH10@15'			
9/17/25	1123	soil	BH10@20'	4 oz, one	on ice	

Date: 9/17/25
Time: 1318

Relinquished by:

Received by:

Via:

Date: 9/17/25
Time: 1318Date: 9/17/25
Time: 1745

Relinquished by:

Received by:

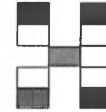
Via:

Date: 9/18/25
Time: 7:15

Remarks:

cc: ofroelich@ensolum.com
wweichert@ensolum.com

For NMOC

HALL ENVIRONMENTAL
ANALYSIS LABOR

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 8710

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



885-33590 COC

Analysis Request

MTBE / TMB's (8021)	TPH:8015D (GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)										
☒	☒																		

Login Sample Receipt Checklist

Client: Hilcorp Energy

Job Number: 885-33590-1

Login Number: 33590

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 516672

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 516672
	Action Type: [REPORT] Alternative Remediation Report (C-141AR)

CONDITIONS

Created By	Condition	Condition Date
nvez	1. Continue with directive given in the "Discussion and Recommendations" portion of this report. 2. Submit next quarterly report by January 15, 2026.	10/22/2025